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Broadcast & Audio-Video General Catalogue

2007 - 2008



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D Cameras

HD Cameras

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HDC-X300 HD Multi-purpose Camera HDC-X300K

Features

•Superb picture quality with three 1/2-inch type 1.5-mega pixel HD CCDs •Low smear level of -120 dB •High signal-to-noise ratio of 54 dB • Progressive scan mode (29.97/25/23.976PsF) •Interlaced scan mode (59.94i/50i) •Compact and lightweight design - only 1.2 kg (2 lb 10 oz) •Low minimum illumination of 0.003 lx (+48 dB gain, 64 frames slow shutter) •HD-SDI interface •D-sub 15-pin interface •Camera remote control capability •Trigger function •Optical ND filter and electronic CC function •HDC-X300K is supplied with focus servo lens



Supplied Accessories

Operation manual (1) AC adaptor (1) AC cable (1) Tally unit (1)

Optional Accessories HFU-X310 Interface unit HFBK-HD1 HD-SDI Option HFBK-SD1 SDI Option HFBK-XG1 XGA Option HFBK-TS1 iLink (HDV) Option RM-B150 Remote Control Unit RM-B750 Remote Control Unit RCP-750 Remote Control Panel (Joystick type) RCP-751 Remote Control Panel (Dial control type) MSU-700A Master Setup Unit MSU-750 Master Setup Unit VCT-U14 Tripod Adaptor



Specifications

General

Power requirements:

DC 12 V

Power consumption:

17 W

Operating temperature:

Camera: -10 to +45 °C (14 to 113 °F)

AC adaptor: 0 to 40 °C (32 to 104 °F)

Storage temperature:

-20 to +60 °C (-4 to +140 °F)

Operating humidity:

25 to 85% (relative humidity)

1.2 kg (2 lb 10 oz)

Dimensions:

95 x 95 x 160 mm (3 3/4 x 3 3/4 x 6 3/8

inches) without projection

Camera

Pickup device:

3-chip 1/2-inch type 1.5-mega pixel CCD

Effective picture elements (H x V):

1440 x 1080

Optical system:

F1.4 prism

Built-in filters:

1:Clear, 2:1/4ND, 3:1/16 ND, 4:1/64ND

Sony 1/2-inch bayonet mount

Signal system:

59.94i/23.976PsF/29.97PsF selectable at

59.94i mode

50i/25PsF selectable at 50i mode

Sync system:

Internal and external (3 state/VBS (BB))

Minimum illumination:

0.003 lx (F1.4, +48 dB gain, 64-frame

accumulation) Sensitivity (2000 Ix, 89.9% reflectance):

F10 (typical)

Gain selection:

-3, 0, 3, 6, 9, 12, 18, 24, 30, 36, 42, 48 dB

Shutter speed:

1/60 (50i mode), 1/100, 1/250, 1/500, 1/1000,

1/2000 s

Clear scan:

50 to 200 Hz (50i mode)

60 to 200 Hz (59.94i mode)

Slow shutter:

2, 3, 4, 5, 6, 7, 8, 16, 32, 64 frame

Smear level:

-120 dB (typical)

S/N ratio:

54 dB (typical)

Registration:

0.02 or less (all zones, without lens)

Geometric distortion:

Below measurable level (without lens)

Modulation depth at 20 MHz:

45% (typical)

Signal input

Genlock video:

BNC x1, 1.0 Vp-p, 75 Ω

Signal outputs

HD SDI:

BNC x1, 0.8 Vp-p +/-10%, 75 Ω

Video:

D-sub 15-pin

Tally:

Mini-jack

Other inputs/outputs

Trigger BNC x1

Lens

14-pin

Remote:

8-pin

DC input:

DC jack

Eco-info

Lead-free solder is used for soldering Halogenated flame retardants are not used in the printed wiring boards.

HDC-X310 HD Multipurpose camera with Fibre interface HDC-X310K

Features

Features are similar to HDC-X300. HD-SDI Interface is replaced by a long distance capable monomode fibre interface allowing up to 1Km connection with a simple fibre network cable. HDC-X310K is supplied with 19X autofocus Lens.

Supplied Accessories

Operation manual (1) AC adaptor (1) AC cable (1) Tally unit (1)

Optional Accessories

RM-B150 Remote Control Unit RM-B750 Remote Control Unit RCP-750 Remote Control Panel (Joystick RCP-751 Remote Control Panel (Dial control type) MSU-700A Master Setup Unit MSU-750 Master Setup Unit VCT-U14 Tripod Adaptor HFU-X310 Interface unit HFBK-HD1 HD-SDI Option HFBK-SD1 SDI Option HFBK-XG1 XGA Option



Specifications

HFBK-TS1 iLink (HDV) Option

General

Power requirements: DC 12 V Power consumption: 17 W

Operating temperature:

Camera: -10 to +45 °C (14 to 113 °F) AC adaptor: 0 to 40 °C (32 to 104 °F)

Storage temperature:

-20 to +60 °C (-4 to +140 °F)

Operating humidity:

25 to 85% (relative humidity)

1.2 kg (2 lb 10 oz)

Dimensions:

95 x 95 x 160 mm (3 3/4 x 3 3/4 x 6 3/8 inches) without projection

Camera

Pickup device:

3-chip 1/2-inch type 1.5-mega pixel CCD Effective picture elements (H x V):

1440 x 1080

Optical system:

F1.4 prism

Built-in filters:

1:Clear, 2:1/4ND, 3:1/16 ND, 4:1/64ND

Lens mount:

Sony 1/2-inch bayonet mount

Signal system:

59.94i/23.976PsF/29.97PsF selectable at

59.94i mode

50i/25PsF selectable at 50i mode

Sync system:

Internal and external (3 state/VBS (BB))

Minimum illumination:

0.003 lx (F1.4, +48 dB gain, 64-frame accumulation)

Sensitivity (2000 lx, 89.9% reflectance):

F10 (typical)

Gain selection:

-3, 0, 3, 6, 9, 12, 18, 24, 30, 36,

42, 48 dB

Shutter speed:

1/60 (50i mode), 1/100, 1/250,

1/500, 1/1000, 1/2000 s

50 to 200 Hz (50i mode)

60 to 200 Hz (59.94i mode)

Slow shutter:

2, 3, 4, 5, 6, 7, 8, 16, 32, 64 frame

Smear level:

-120 dB (typical)

S/N ratio:

54 dB (typical)

Registration:

0.02 or less (all zones, without lens)

Geometric distortion:

Below measurable level (without lens)

Modulation depth at 20 MHz:

45% (typical)

Signal input

Genlock video:

BNC x1, 1.0 Vp-p, 75 Ω



Signal outputs

Fibre Interface Monomode, LC Duplex type

D-sub 15-pin

Tally

Mini-jack

Other inputs/outputs

Trigger:

BNC x1

Lens: 14-pin

Remote:

niq-8

DC input:

DC jack

Eco-info

Lead-free solder is used for soldering Halogenated flame retardants are not used in the printed wiring boards.

HDC-1000 Multi-format HD Camera

•Newly developed three 2/3-inch type 2.2-megapixel HD progressive CCD •High-sensitivity of F10 •Excellent signal-to-noise ratio of 54 dB •A wide variety of capturing modes - 1080/50i, 1080/60i, 1080/24P, 1080/25P, 1080/30P, 720/50P, 720/60P • Industry-first

- 14-bit A/D conversion •State-of-the-art DSP LSI
- •Ergonomic design •Optical fibre digital transmission
- •Memory Stick storage of camera setup parameters
- •Servo-controlled ND and CC filters

Supplied Accessories

Operation manual (1) Front cover (1) Number plate for side panel (2) Belt for cable clamp (2) Angle adjustment fitting (2)

Optional Accessories

HDCU-1000 Camera Control Unit HDCU-1500 Camera Control Unit HDVF-20A 2-inch Type HD B/W CRT Viewfinder HDVF-9900 LCD Colour Viewfinder (Requires HDLA-1500 or HDLA-1507) MSU-900 Master Setup Unit MSU-950 Master Setup Unit CNU-700 Camera Command Network Unit CAC-6 Return Video Selector CAC-12 Camera Microphone Holder VCT-14 Tripod Adaptor HDTX-100 HD Triax Adaptor (Fischer type) HDFX-100 HD Triax Adaptor (Fischer type)

RCP-700 series Remote control panel RCP-920 series Remote control panel



HDC-1000 rear panel



Specifications

General

Mass

Approx. 20 kg (44 lb 9 oz, without VF and lens) Operating temperature -20 to +45 °C (-4 to +113 °F)

Camera

Pickup device 3-CCD 2/3-inch type 16:9 Effective picture elements (H x V) 1920 x 1080

Spectrum system F1.4 prism system

Built-in filters 1: Clear, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND,

5: 1/64ND A: CROSS, B: 3200K, C: 4300K, D: 6300K,

E: 8000K Servo filter control

Yes

Lens mount

Sony hanger mount

Sensitivity

F10 at 2000 lx (3200K, 89.9% reflectance)

Minimum illumination

10 lx (F1.4, +12 dB gain up)

Signal-to-noise ratio

54 dB (typical) Horizontal resolution 1000 TV lines

Dynamic range (1080/60i mode)

Registration

Within 0.02% (all zones, without lens)

Shutter speed selection

1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s (1080/60i mode), 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s

(1080/50i mode)

Modulation depth

45% or more horizontally (800 TV lines at center, 27.5 MHz, with typical lens)

Input connectors

Audio in (CH-1)

XLR-3-31 type (1, female), mic or line selectable

Audio in (CH-2)

XLR-3-31 type (1, female), AES/EBU or mic or line selectable

Return control

6-pin (1)

DC in

XLR-4-pin type (1)

Output connectors

Test out

BNC type (1), 1.0 Vp-p, 75Ω

HD SDI out

BNC type (2)

DC out

4-pin (1), 10.5 to 17 V max. 1.5 A

AC utility out

Yes (Output connector differs by region.)

Input/output connectors

Optical fibre connector

Lens

36-pin

Viewfinder

D-sub 25-pin

Remote

8-pin

Prompter

BNC type (1), 1.0 Vp-p, 75Ω

10-pin: Tracker R/T, R/G Tally,

unregulated 12 V

Crane

12-pin, Y/Pb/Pr, Trunk data I/O, Serial Data Intercom

XLR-5-pin (2, female)

HDC-1500 Multi-format HD Camera

•Newly developed three 2/3-inch type 2.2-megapixel HD progressive CCD •High-sensitivity of F10 •Excellent signal-to-noise ratio of 54 dB •A wide variety of capturing modes - 1080/50i, 1080/60i, 1080/24P, 1080/25P, 1080/30P, 720/50P, 720/60P • Industry-first

14-bit A/D conversion •State-of-the-art DSP LSI

- •Ergonomic design •Compact and lightweight: approx.
- 4.5 kg (9 lb 14 oz) •Optical fibre digital transmission
- · Versatile interfaces: two HD-SDI outputs, one digitally down-converted SD-SDI output •Memory Stick storage of camera setup parameters •Servo-controlled ND and CC filters



Supplied Accessories

Operation manual (1) Lens cap (1) Label for assignable switch (1)

Optional Accessories

HDCU-1000 Camera Control Unit HDCU-1500 Camera Control Unit HDLA-1500 Camera Adaptor HDLA-1505 Camera Adaptor HDLA-1507 Camera Adaptor HDVF-20A 2-inch Type HD B/W CRT Viewfinder

HDVF-C35W Multi-format HD Colour LCD Viewfinder

HDVF-C730W LCD Colour Viewfinder

HDVF-C950W LCD Colour Viewfinder HDVF-700A B/W CRT Viewfinder (Requires HDLA-1500 or HDLA-1507) HDVF-9900 CRT Viewfinder (Requires HDLA-1500 or HDLA-1507) HKC-T1500 CCD Block Extension Adaptor MSU-900 Master Setup Unit MSU-950 Master Setup Unit CNU-700 Camera Command Network Unit CAC-6 Return Video Selector CAC-12 Camera Microphone Holder VCT-14 Tripod Adaptor HDTX-100 HD Triax Adaptor (Fischer type) HDFX-100 HD Triax Adaptor (Fischer type) RCP-700 Series remote control panel



HDC-1500 rear panel

Specifications

General

Approx. 4.5 kg (9 lb 14 oz, without VF and lens)

Operating temperature

-20 to +45 °C (-4 to +113 °F)

Camera

Pickup device

3-CCD 2/3-inch type 16:9

Effective picture elements (H x V)

1920 x 1080

Spectrum system

F1.4 prism system

Built-in filters

1: Clear, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND,

A: CROSS, B: 3200K, C: 4300K, D: 6300K,

F: 8000K

Servo filter control

Yes

Lens mount

Sony bayonet mount

F10 at 2000 lx (3200K, 89.9% reflectance)

Minimum illumination

10 lx (F1.4, +12 dB gain up)

Signal-to-noise ratio

54 dB (typical)

Horizontal resolution

1000 TV lines

Dynamic range (1080/60i mode)

RCP-920 Series remote control panel

600%

Registration

Within 0.02% (all zones, without lens)

Shutter speed selection

1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s (1080/60i mode), 1/60, 1/125,

1/250, 1/500, 1/1000, 1/2000 s

(1080/50i mode)

Modulation depth

45% or more horizontally (800 TV lines at center, 27.5 MHz, with typical lens)

Input connectors

Audio in (CH-1)

XLR-3-31 type (1, female),

mic or line selectable

Audio in (CH-2)

XLR-3-31 type (1, female), AES/EBU or mic or line selectable

Mic in (front)

XLR-3-31 type (1, female)

Return control

6-pin (1) DC in

XLR-4-pin type (1)

Output connectors

Test out

BNC type (1), 1.0 Vp-p, 75Ω

HD SDI out

BNC type (1)

Earphone out

Mini-jack (1), 8Ω

DC out

4-pin (1), 10.5 to 17 V max. 1.5 A

Input/output connectors

Optical fibre connector

12-pin

Viewfinder 20-pin

Remote

8-pin

Prompter

BNC type (1), 1.0 Vp-p, 75 Ω

10-pin: Tracker R/T, R/G Tally,

unregulated 12 V

Crane

12-pin, Y/Pb/Pr, Trunk data I/O, Serial Data Intercom

XLR-5-pin (2, female)

HDC-1550 Multi-format HD Camera (triax type)

•Newly developed three 2/3-inch type 2.2-megapixel HD progressive CCD •High-sensitivity of F10 •Excellent signal-to-noise ratio of 54 dB •A wide variety of capturing modes - 1080/50i, 1080/24P, 1080/25P, 1080/30P, 1080/60P, 720/50P, 720/60P • Industry-first 14-bit A/D conversion •State-of-the-art DSP LSI •Ergonomic design •Built-in triax interface. Note that HDFX-100 triax to fibre convertor must be used with HDCU-1000/1500 •Memory Stick storage of camera setup parameters •Servo-controlled ND and CC filters



Supplied Accessories

Operation manual (1) Front cover (1) Number plate for side panel (2) Belt for cable clamp (2) Angle adjustment fitting (2)

Optional Accessories

HDCU-1000 Camera Control Unit HDCU-1500 Camera Control Unit HDLA-1500 Camera Adaptor HDLA-1505 Camera Adaptor HDLA-1507 Camera Adaptor HDVF-20A 2-inch Type HD B/W CRT Viewfinder

HDVF-C35W Multi-format HD Colour LCD Viewfinder

HDVF-C730W LCD Colour Viewfinder HDVF-C950W LCD Colour Viewfinder HDVF-700A B/W CRT Viewfinder (Requires HDLA-1500 or HDLA-1507) HDVF-9900 CRT Viewfinder (Requires HDLA-1500 or HDLA-1507) HKC-T1500 CCD Block Extension Adaptor MSU-900 Master Setup Unit MSU-950 Master Setup Unit CNU-700 Camera Command Network Unit CAC-6 Return Video Selector CAC-12 Camera Microphone Holder VCT-14 Tripod Adaptor HDFX-100 HD Triax Adaptor (mandatory for the HDC-1550) RCP-700 series Remote control panel

RCP-920 series Remote control panel



HDC-1550 rear panel

Specifications

General

Mass

Approx. 4.5 kg (9 lb 14 oz, without VF and lens) Operating temperature

-20 to +45 °C (-4 to +113 °F)

Pickup device

3-CCD 2/3-inch type 16:9

Effective picture elements (H x V)

1920 x 1080

Spectrum system

F1.4 prism system

Built-in filters

1: Clear, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND,

5: 1/64ND

A: CROSS, B: 3200K, C: 4300K, D: 6300K,

E: 8000K

Servo filter control

Yes

Lens mount

Sony bayonet mount

Sensitivity

F10 at 2000 lx (3200K, 89.9% reflectance)

Minimum illumination 10 lx (F1.4, +12 dB gain up)

Signal-to-noise ratio

54 dB (typical)

Horizontal resolution

1000 TV lines

Dynamic range (1080/60i mode)

Registration

Within 0.02% (all zones, without lens)

Shutter speed selection

1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s (1080/60i mode), 1/60, 1/125,

1/250, 1/500, 1/1000, 1/2000 s

(1080/50i mode)

Modulation depth

45% or more horizontally (800 TV lines at center, 27.5 MHz, with typical lens)

Input connectors

Audio in (CH-1)

XLR-3-31 type (1, female),

mic or line selectable

Audio in (CH-2)

XLR-3-31 type (1, female), AES/EBU or

mic or line selectable

Mic in (front)

XLR-3-31 type (1, female)

Return control

6-pin (1)

DC. in

XLR-4-pin type (1)

Output connectors

Test out

BNC type (1), 1.0 Vp-p, 75Ω

HD SDI out

BNC type (2)

Earphone out

Mini-jack (1), 8Ω

4-pin (1), 10.5 to 17 V max. 1.5 A

Input/output connectors

Optical fibre connector

Lens

12-pin

Viewfinder

20-pin

Remote nia-8

Tracker

10-pin: Tracker R/T, R/G Tally,

unregulated 12 V

12-pin, Y/Pb/Pr, Trunk data I/O, Serial Data

Intercom

XLR-5-pin (2, female)

HDC-3300 HD Super Motion Colour Camera

•Three times the normal frame rate of 1080/180i (59.94i), 1080/150i (50i), 720/180p (59.94p) and 720/150p (50p)

•Long-distance optical fibre transmission •Simultaneous slow motion and normal speed HD images •Flexible system configuration compatible with other Sony broadcast camera peripherals including the RCP-700 and RCP-920 Series remote controllers, CNU-700 network command units and MSU-900/950 master setup units.



Supplied Accessories

Operation manual (1)

Optional Accessories

HDCU-3300 HD Super Motion Camera Control Unit

HDLA-1500 Camera Adaptor

HDLA-1505 Camera Adaptor

HDLA-1507 Camera Adaptor

HDVF-20A 2-inch Type HD B/W CRT Viewfinder

HDVF-C35W Multi-format HD Colour

LCD Viewfinder HDVF-C730W LCD Colour Viewfinder

HDVF-C950W LCD Colour Viewfinder

HDVF-700A B/W CRT Viewfinder (Requires HDLA-1500 or HDLA-1507)

HDVF-9900 CRT Colour Viewfinder

(Requires HDLA-1500 or HDLA-1507)

MSU-900 Master Setup Unit

MSU-950 Master Setup Unit

CNU-700 Camera Command Network Unit

CAC-6 Return Video Selector

CAC-12 Camera Microphone Holder

VCT-14 Tripod Adaptor

RCP-700 series Remote control panel

RCP-920 series Remote control panel

Specifications

General

Imaging Device

3-CCD 2/3 inches

Effective picture elements (H x V)

1920x1080

4.9Kg (10 lb 13 oz) (without VF and lens)

Dimensions (W x H x D)

173 x 197 x 350 mm

(6 7/8 x 7 7/8 x 13 7/8 inches)

Operation temperature

-20 °C to +45 °C (-4 °F to +113 °F)

Storage temperatue

-20 °C to +60 °C (-4 °F to +140 °F)

Filter

Built-in filters

1: CLEAR, 2: 1/4ND, 3: 1/8ND, 4: 1/16ND,

5: 1/64ND

A: CROSS, B: 3200K, C: 4300K, D: 6300K,

D: 8000K

F7 at 2000 lx (3200K, 89.9% reflectance)*

Signal-to-noise ratio

50 dB (typical)*

Holizontal resolution

1000 TV lines*

Modulation depth

45% (800 TV lines at center. 27.5 MHz, with typical lens)*

Input/Output connectors

DC 12V Output (max.1.5A)

4pin (1)

Remote

8pin (1) DC 12V Input

XRL-4-pin type (1)

Viewfinder

20pin (1)

Lens

12pin (1)

Front Mic input

XLR-3-pin type (1)

Audio 1 input

XLR-3-pin type (1), (Mic or Line)

Audio 2 input XLR-3-pin type (1),

(AES/EBU or Mic or Line)

Intercom 1

XLR-5-pin type (1)

Intercom 2

XLR-5-pin type (1)

HD-SDI output

BNC type (1): HD-SDI or SD-SDI, character on/off selectable**

Test output

BNC type (1): VBS(SD)

VF Y or R or G or B (HD)

RET Control 6pin (1)

Tracker

10pin (1): Tracker R/T, R/G Tally,

Unreg12V

Prompter

BNC type (1)

12pin (1):Y/Pb/Pr,

Trunk Data I/O, Serial Data

Minijack (1), 8 Ω

* At 1080/180i mode ** When the HDC-3300 camera is not connected to the HDCU-3300 camera control unit, the output signal from the HD-SDI connector is for maintenance purposes only.

HDCU-1000 Camera Control Unit

Features

•Eight HD-SDI or SD-SDI outputs •Up to eight additional HD-SDI or SD-SDI outputs (with two optional HKCU-1005 boards) •Four sets of HD-SDI, SD-SDI, and analogue composite return video inputs •Built-in down-converted analogue composite output •Two-channel teleprompter input •Built-in Ethernet interface (100Base-T) •Utility power output capability for use with the HDC-1000 or HDLA-1500 •Two-channel data trunk lines (RS-422A or RS-232C) for easy data transmission •AES/EBU digital audio output •Two-channel microphone output (two XLR connectors)



Optional Accessories

HKCU-1001 SD Analogue Interface Unit HKCU-1003 Multi Interface Unit HKCU-1005 HD/SD Expansion Unit RCP-700 Series remote control panel RCP-920 Series remote control panel MSU-900 Master Setup Unit MSU-950 Master Setup Unit RM-B150 Remote Control Unit RM-B750 Remote Control Unit CCA-5 Cables 8-pin/8-pin Remote Control Cable



HDCU-1000 rear panel

Applicable Models

HDC-1000 Multi-format HD Camera HDC-1500 Multi-format HD Camera HDC-1550 Multi-format HD Camera

Specifications

General

Power requirements

AC 100/120/220 to 240 V, 50/60 Hz

Maximum current consumption

5.4 A (at 100 V AC, entire system active)

Operating temperature

+5 to +40 °C (+41 to +104 °F)

Mass

Approx. 16 kg (35 lb 4 oz)

Dimensions (W x H x D)

424 x 133 x 410 mm

(16 3/4 x 5 1/4 x 16 1/4 inches)

HD inputs/outputs

HD SDI output (*1)

BNC type (4), SMPTE 292M, 1080/50i, 60i, 30P, 25P, 24P, 720/60P, 50P

HD SDI/SD SDI selectable

HD monitor output (*2)

BNC type (4), SMPTE 292M, 1080/50i, 60i, 30P, 25P, 24P, 720/60P, 50P

HD SDI/SD SDI selectable,

character on/off selectable

HD SDI return input

BNC type (4), SMPTE 292M, 1080/50i, 60i, 30P, 25P, 24P, 720/60P, 50P

SD inputs/outputs

SDI output (*1)

BNC type (4), SMPTE 259M, Serial digital component HD SDI/SD SDI selectable SDI monitor output (*2)

BNC type (4), SMPTE 259M,

Serial digital component, 480/576-lines

HD SDI/SD SDI selectable,

character on/off selectable

Analogue composite monitor output

BNC type (1), character on/off selectable

SDI return input

BNC type (4), SMPTE 259M,

Serial digital component

VBS return input

BNC type (4), NTSC/PAL

Sync

Reference input

BNC type (1, with loop-through),

HD tri-level sync or SD black burst

Sync output

BNC type (1), HD tri-level sync or SD sync

Intercom/Tally/PGM

Intercom PD & ENG

D-sub 25-pin (1), 4W/RTS/CC selectable

PGM1/PGM2

0/-20 dBu selectable

R-Tally/G-Tally

24 V power in/make contact

Audio

MIC1/MIC2 output

XLR-3-31 type (2, female),

0/-20 dBu selectable

Digital audio output (AES/EBU)

BNC type (1), AES/EBU format,

20-bit/48 kHz Embedded audio

Embedded audio to HD SDI/SD SDI

Prompter

Prompter in

BNC type (2, with loop-through),

Analogue, NTSC/PAL/HD-Y

Others

RCP/MSU/CNU interface

8-pin (1), Sony Camera Command Network Protocol (for entire camera system control)

Ethernet

RJ-45 (1), 10BASE-T/100BASE-TX

Mic remote

D-sub 15-pin

WF mode

4-pin (2), Stair step

(for SD composite Waveform monitor)

WF control

D-sub 15-pin (1), GPI

(for SDI component WF control)

System expansion I/O

D-sub 15-pin (1), GPI (for system control with external GPI interface)

runk line

D-sub 9-pin (1), RS-232C (remote line for CHU equipment), 12-pin (round type connector), RS-232C/422 (remote line for CHU equipment)

Camera

Optical fibre cable interface

SMPTE 304M based optical fibre connector (1), 1.5 gb/s optical fibre digital transmission, SMPTE 292 M

(*1) HD SDI output and SD SDI output share the same connector. (*2) HD monitor output and SD monitor output share the same connector.

HDCU-1500 Camera Control Unit

Features

•High power supply capability allowing HDC-1000 camera or HDC-1500/HDLA-1500 operation •Three HD-SDI or SD-SDI outputs •Up to eight additional HD-SDI or SD-SDI outputs (requires two optional HKCU-1005 boards)

•Three HD-SDI, SD-SDI, or analogue composite return video inputs •Built-in down-converted analogue composite output •RM-B750 Remote Control Unit attach capability on the front panel •One channel teleprompter input Built-in Ethernet interface (100Base-T) •Two-channel data trunk line(RS-422A/RS-232C) for easy data transmission •Two-channel microphone output (two XLR connectors)



Optional Accessories

HKCU-1001 SD Analogue Interface Unit HKCU-1003 Multi Interface Unit HKCU-1005 HD/SD Expansion Unit RCP-700 Series remote control panel RCP-920 Series remote control panel MSU-900 Master Setup Unit MSU-950 Master Setup Unit RM-B150 Remote Control Unit RM-B750 Remote Control Unit CCA-5 Cables 8-pin/8-pin Remote Control Cable

Applicable Models

HDC-1000 Multi-format HD Camera HDC-1500 Multi-format HD Camera HDC-1550 Multi-format HD Camera



HDCU-1500 rear panel

Specifications

General

Power requirements

AC 100 to 240 V, 50/60 Hz Maximum current consumption

4 A (at 100 V AC, entire system active)

4 A (at 100 v AC, entire system activ

Operating temperature

-10 to +40 °C (+14 to +104 °F)

Mass

Approx. 6.2 kg (13 lb 10 oz)

Dimensions (W x H x D)

200 x 127 x 410 mm

(8 x 5 1/9 x 16 1/4 inches)

HD inputs/outputs

HD SDI output (*1)

BNC type (2), SMPTE 292M, 1080/50i, 60i, 30P, 25P, 24P, 720/60P, 50P

HD SDI/SDI selectable

HD monitor output (*2)

BNC type (1), SMPTE 292M, 1080/50i, 60i, 30P, 25P, 24P, 720/60P, 50P

HD SDI/SD SDI selectable

HD SDI return input

BNC type (3), SMPTE 292M, 1080/50i, 60i, 30P, 25P, 24P, 720/60P, 50P

HD SDI/SD SDI/VBS selectable

SD inputs/outputs

SDI output (*1)

BNC type (2), SMPTE 259M, Serial digital component HD SDI/SD SDI selectable SDI monitor output (*2)

BNC type (1), SMPTE 259M,

Serial digital component, 480/576-lines

HD SDI/SD SDI selectable

Analogue composite monitor output

BNC type (1), Monitor/Sync selectable,

character on/off selectable

SDI return input

BNC type (3), SMPTE 259M,

Serial digital component

HD SDI/SD SDI/VBS selectable

VBS return input

BNC type (3), NTSC/PAL

HD SDI/SD SDI/VBS selectable

Sync

Reference input

BNC type (1, with loop-through),

HD tri-level sync or SD black burst

Sync output

BNC type (1), HD tri-level sync or SD sync Sync/Monitor selectable

Intercom/Tally/PGM

Intercom PD & ENG

D-sub 25-pin (1), 4W/RTS/CC selectable

PGM1/PGM2 0/-20 dBu selectable

R-Tally/G-Tally 24 V power in/make contact Audio

MIC1/MIC2 output

XLR-3-31 type (2, female),

0/-20 dBu selectable

Digital audio output (AES/EBU)

Embedded audio

Embedded audio to HD SDI/SD SDI

Prompter

Prompter in

BNC type (1, with loop-through),

Analogue, NTSC/PAL/HD-Y

Others

RCP/MSU/CNU interface

8-pin (1), Sony Camera Command Network

Protocol (for entire camera system control)

Etnernet

RJ-45 (1), 10BASE-T/100BASE-TX

Mic remote

D-sub 15-pin

WF mode

4-pin (1), Stair step

(for SD composite Waveform monitor)

WF control

D-sub 15-pin (1), GPI

(for SDI component WF control)

WF control/mic remote selectable

System expansion I/O

Trunk line

12-pin (round type connector), RS-232C/422 (remote line for CHU

equipment)

Camera

Optical fibre cable interface

SMPTE 304M based optical fibre connector (1), 1.5 gb/s optical fibre digital

transmission, SMPTE 292 M

(*1) HD SDI output and SD SDI output share the same connector. (*2) HD monitor output and SD monitor output share the same connector.

HDCU-3300 HD Super Motion Camera Control Unit

The HDCU-3300 Camera Control Unit is the camera control unit for the HDC-3300 Super Motion Camera to configure HD slow-motion camera system.

Optional Accessories

HKCU-1001 SD Analogue Interface Unit HKCU-1005 HD/SD Expansion Unit

Applicable Models

HDC-3300 HD Super Motion Colour Camera



Specifications General

Power supply

AC 100/120/220-240 V, 50 Hz/60 Hz Maximum. Current consumption

5.4 A (at 100 V AC, entire system active)

Operating temperature

+5 °C to +40 °C (+41 °F to +104 °F)

Storage temperature

-20 °C to +60 °C (-4 °F to +140 °F)

Dimensions (W x H x D)

424 x 133 x 410 mm

(16 3/4 x 5 1/4 x 16 1/4 inches)

15.9kg (35 lb 1 oz)

Input/output connectors

HD SDI LINK A/B/C Super Motion Output BNC type (1) LinkA x 2, LinkB x 2,

LinkC x 2

HD SDI output

BNC type (4), SMPTE-292M, 1080/50i,

60i, 720/60P, 50P

HD/SD SDI output

BNC type (4)

HD: SMPTE-292M 1080/50i, 60i,

720/60P, 50P

SD: SMPTE-259M

Character output (composite analogue)

BNC type (1), CHAR (1)

HD SDI return input

BNC type (4), SMPTE-292M, 1080/50i,

60i. 720/60P. 50P

SD-SDI return input

BNC type (4), SMPTE-259M,

VBS return input

BNC type (4)

Sync

Reference input

BNC type (1, with loop-through),

HD tri-level sync or SD Black Burst

Sync output

BNC type (1), HD tri-level sync

or SD Black Burst

Intercom/Tally/PGM

Intercom PD & ENG

D-sub 25-pin (1), 4W/RTS/CC selectable

PGM1/PGM2

0/-20 dBu selectable

R-Tally/G-Tally

24 V power in/make contact

Audio

MIC1/MIC2 output

XLR-3-31 type (2, female),

0/-20 dBu selectable

Digital audio output (AES/EBU)

BNC type (1), AES/EBU format,

20-bit/48 kHz

Embedded Audio

Embedded Audio to HD-SDI/SD-SDI

Prompter

Prompter in

BNC type (2, with loop-through), Analogue, NTSC/PAL/HD-Y

Others

RCP/MSU/CNU interface

8-pin (1), Sony Camera System-700

Control Protocol

(for entire camera system control)

Ethernet

10BASE-T/100BASE-TX connector (RJ-45)

Mic Remote

D-sub 15-pin (1)

WF control

D-sub 15-pin (1), GPI

(for SDI component WF control)

WF mode

4-pin (2), Stair step

(for SD composite WF monitor)

System expansion I/O

D-sub 15-pin GPI (1, for system control

with external GPI interface)

12-pin (1, round type connector),

RS-232C or RS422

Optical fibre cable interface

SMPTE-304M based optical fibre

connector (1)

Optional Input/Output Boards HKCU-1001 SD Analogue Interface Unit

VBS output

BNC type (2)

Analogue composite monitor output BNC type: WF (1), PIX (1)

HKCU-1005 HD/SD Expansion Unit

HD SDI/SD SDI output

BNC type (2)

HD SDI/SD SDI monitor output

BNC type (2), charactor on/off selectable

HDLA-1500 Large Lens Adaptor for CRT Viewfinders

Features

- New user-friendly design
- ·Low-profile design
- ·Allows operations with a CRT wiewfinder

Optional Accessories

HDVF-700A B/W CRT Viewfinder (1) HDVF-9900 CRT Viewfinder (1)

Applicable Models

HDC-1500 Multi-format HD Camera HDC-1550 Multi-format HD Camera HDC-3300 HD Super Motion Camera





HDI A-1500 rear pane

Note: also available as HDLA-1500/B (dark coloured version)

HDLA-1505 Large Lens Adaptor for LCD Viewfinders

Features

- New user-friendly design
- •Allows use of large studio lenses
- •Retains potable LCD viewfinder

Optional Accessories

HDVF-C730 LCD Colour Viewfinder HDVF-C950 LCD Colour Viewfinder

Applicable Models

HDC-1500 Multi-format HD Camera HDC-1550 Multi-format HD Camera HDC-3300 HD Super Motion Camera





HDLA-1505 rear panel

Note: also available as HDLA-1505/B (dark coloured version)

HDLA-1507 CRT Viewfinder Adaptor

Features

- ·New user-friendly design
- •Allows use of portable camera with CRT viewfinder

Supplied Accessories

Operation manual (1)
Angle adjusting plates (2)
Cable clamps (2)
Number plates for side panel (2)
Stopper (1)
Fixing screw for stopper (1)

Optional Accessories

HDVF-700A B/W CRT Viewfinder (1) HDVF-9900 CRT Viewfinder (1)

Applicable Models

HDC-1500 Multi-format HD Camera HDC-1550 Multi-format HD Camera HDC-3300 HD Super Motion Color Camera

Specifications General

Power requirement 240 V AC (max. 1.2 A)/180 V DC (max. 0.65 A)/12 V DC (max. 9 A) Operating temperature -20 °C to +45 °C (-4 °F to +113 °F) Storage temperature -20 °C to +60 °C (-4 °F to +140 °F) Dimensions (Approx. W x H x D)

531 x 400 x 336 mm (21 x 15 3/4 x 13 1/4 inches)







Mass (Approx.) 15.5 kg (34 lb 3 oz)

Input/output connectors

D-sub 25-pin (1)
DC IN
XLR-4-pin (1), 10.5 to 17 V DC
DC OUT

4-pin (1), 10.5 to 17 V DC max. 1.5 A

Note: also available as HDLA-1507/B (dark coloured version)

HDFX-100 HD Triax Adaptor (Fischer type)

·Converts optical fibre transmission to the widely used triax transmission system •Long distance transmission up to 1400 m (4500 feet) with a 14.5 mm dia. triax cable or 1000 m (3200 feet) with a 13.2 mm dia. triax cable

Optional Accessories

HDTX-100 HD Triax Adaptor (Fischer type) HDCU-1000 Camera Control Unit HDCU-1500 Camera Control Unit

Applicable Models

HDC-1000 Multi-format HD camera (with HDTX-100) HDC-1500 Multi-format HD camera (with HDTX-100) HDC-1550 Multi-format HD camera



HDTX-100 HD Triax Adaptor (Fischer type)

Features

•Converts optical fibre transmission to the widely used triax transmission system •Long distance transmission up to 1400 m (4500 feet) with a 14.5 mm dia. triax cable or 1000 m (3200 feet) with a 13.2 mm dia, triax cable

Applicable Models

HDFX-100 HD Triax Adaptor (Fischer type) HDC-1000 Multi-format HD Camera HDC-1500 Multi-format HD Camera



HKC-T1500 CCD Block Extension Adaptor

Features

•Allows the CCD block to be extended from the camera body by up to 50m (12.5m with cable supplied) •Provides compact, lightweight imaging assembly

Supplied Accessories

Multi-core cable (12.5 m) (1) VF relay cable (1) MIC relay cable (1) INCOM relay cable (1) Top cover (1) Operation manual (1)

Optional Accessories

HDC-M12 12m T cable HDC-M25 25m T cable HDC-M50 50m T cable HDC-M035L 3.5m T cable with right angle connector at the camera body end.

Specifications General

Power requirements 13.0 to 17.0 V DC Operating temperature -20 °C to +45 °C (-4 °F to +113 °F) Operating humidity 10% to 90% (no condensation) Mass Cable adapter approx. 0.5 kg (1 lb 2 oz)

Applicable Models

HDC-1500 Multi-format HD Camera HDC-1550 Multi-format HD Camera



Dimensions (W x H x D) CCD block adapter: approx. 1.9 kg (4 lb 3 oz) (with CCD block) Approx.130 x 240 x 250 mm (5 1/8 x 9 1/2 x 9 7/8 inches)

CCD Block Adaptor I/F

Camera cable

55-pin multicore cable connector (male) MIC IN

XLR-3 (1, female)

LENS

12-pin (1)

20-pin (1) INCOM

XLR-5 (1, female)

Cable Adaptor I/F

Camera cable

55-pin multicore cable connector (female)

MIC OUT

XLR-3 (1, male)

20-pin (1)

INCOM

XLR-5 (1, male)

Production Cameras

Production Cameras

BVP-E30P14	۲
BVP-E30WSP15	,
DXC-D55PH16	j
DXC-D55PL	,
DXC-D55PK20)
DXC-D55WSPH22	,
DXC-D55WSPL 24	ŀ
DXC-D55WSPI 24	

BVP-E30P 3-chip CCD Portable Colour Camera

Features

•Portable studio/OB/EFP camera •Three-chip Power HAD EX CCD imager for superb picture quality •Advanced digital signal processing and 14-bit A/D conversion Switchable progressive* and interlace modes • Excellent signal-to-noise ratio of 65 dB and remarkably low smear level of -145 dB (typical) • High sensitivity of F11 at 2000 lx •Digital 3-D white shading •Cross colour suppression function •Low key saturation function •Adaptive highlight control (Auto knee mode) •Knee saturation control •Multi-matrix function •Enhanced vertical detail (Non-additive mix) • Adaptive detail control • Triple skin tone detail control •Electronic soft focus •Full compatibility with current Sony Camera Control Units for seamless integration into Sony BVP-900P Series, and BVP-E10 Series camera systems using existing Sony MSUs, CNUs and RCPs • Compatible with Sony Wireless Camera System WLL-CA55 and WLL-RX55 •Wideband component triax transmission system •Auto tracing white balance •Assignable switches •Memory Stick system for storage/recall of parameters •Menu knob •Adjustable shoulder pad



*25PsF

Supplied Accessories

Operational manual (1) CD-ROM Operation manual (1) Label for assignable switch (1)

Optional Accessories

CA-590P Camera Adaptor WLL-CA55 Wireless Camera Transmitter (CER)

CA-905F Large Lens Adaptor (Fischer Type)
CCU-790P Camera Control Unit
CCU-590P Portable Camera Control Unit
RM-B750 Remote Control Unit
RM-B150 Remote Control Unit

RCP-700 and RCP-920 family of Remote ControlPanels

CNU-700 Camera Command Network Unit VCS-700 Video Selector

MSU-900 Master Setup Unit

MSU-950 Master Setup Unit

MSA-A "Memory Stick" IC Memory Media

VCT-14 Tripod Adaptor

BVF-55CE 5-inch Type B/W Viewfinder (CCIR) BVF-10CE 1.5-inch Type B/W CRT Viewfinder (CCIR)

Specifications

General

Power consumption:

13 W

Operating temperature:

-20 °C to + 45 °C (-4 °F to +113 °F)

Storage temperature:

-20 °C to + 60 °C (-4 °F to +140 °F)

Dimensions (W x H x D):

125 x 285 x 291 mm (5 x 11 1/4 x 11 1/2

Mass:

Approx. 2.5 kg (5 lb 8 oz) (not including viewfinder)

Camera

A/D conversion: 14 bits Optical system:

F 1.4 prism

Image device:

3-chip 2/3-inch type Power HAD CCD Total picture elements (H x V):

1038 x 1188

Smear level (typical):

-145 dB

Scan format:

50i, 25PsF

Built in filters:

1: CLEAR, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND

Horizontal resolution (center):

900 TV Lines

Modulation depth (center):

80%

Vertical resolution:

480 TV lines/530 TV lines (with EVS)

S/N ratio (typical):

65 dB

Sensitivity (typical):

F 11 at 2000 lx

(3200K 89.9% reflectance)

Gain selection:

 $-3,\ 0,\ +3,\ +6,\ +9,\ +12,\ +18,\ +24,\ +30,\ +36,$

+42 dB

Set-up memory card:

Memory Stick

Shutter speed:

1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s

Clear scan:

1/25(*) to 1/6000 s

Interface

Input connector:

Microphone: XLR 3-pin, -60 dBu

Output connector:

Test out: BNC type, 1.0 Vp-p, 75 Ω,

unbalanced

Others:

Lens: 12-pin View finder: 20-pin Digital interface: 68-pin Analogue interface: 68-pin

Lens mount: Special bayonet mount (B4)

Eco-info

Lead-free solder is used for soldering. Halogenated flame retardants are not used in the cabinets and the printed wiring boards.

(*)1/25-1/50 are on PsF mode.

BVP-E30WSP 3-chip CCD Portable Colour Camera

Features

•Portable studio/OB/EFP camera •Three-chip Power HAD EX CCD imager for superb picture quality •Advanced digital signal processing and 14-bit A/D conversion Switchable progressive* and interlace modes • Excellent signal-to-noise ratio of 65 dB and remarkably low smear level of -145 dB (typical) • High sensitivity of F11 at 2000 lx •Digital 3-D white shading •Cross colour suppression function •Low key saturation function •Adaptive highlight control (Auto knee mode) •Knee saturation control •Multi-matrix function •Enhanced vertical detail (Non-additive mix) • Adaptive detail control • Triple skin tone detail control •Electronic soft focus •Full compatibility with current Sony Camera Control Units for seamless integration into Sony BVP-900P Series, and BVP-E10 Series camera systems using existing Sony MSUs, CNUs and RCPs • Compatible with Sony Wireless Camera System WLL-CA55 and WLL-RX55 •Wideband component triax transmission system •CC filter- electronic and optical •Auto tracing white balance •Assignable switches •Memory Stick system for storage/recall of parameters •Menu knob •Adjustable shoulder pad *25PsF



Supplied Accessories

Operational manual (1) CD-ROM Operation manual (1) Label for assignable switch (1)

Optional Accessories

CA-590P Camera Adaptor WLL-CA55 Wireless Camera Transmitter (CER)

CA-905F Large Lens Adaptor (Fischer Type)
CCU-790P Camera Control Unit
CCU-590P Portable Camera Control Unit
RM-B750 Remote Control Unit
RM-B150 Remote Control Unit

RCP-700 and RCP-920 family of Remote ControlPanels

CNU-700 Camera Command Network Unit VCS-700 Video Selector

MSU-900 Master Setup Unit MSU-950 Master Setup Unit

MSA-A "Memory Stick" IC Mem

MSA-A "Memory Stick" IC Memory Media VCT-14 Tripod Adaptor

BVF-55CE 5-inch Type B/W Viewfinder (CCIR) BVF-20WCE 2-inch Type 16:9 B/W Viewfinder

Specifications

General

Power consumption:

13 W

Operating temperature:

-20 °C to + 45 °C (-4 °F to +113 °F)

Storage temperature:

-20 °C to + 60 °C (-4 °F to +140 °F)

Dimensions (W x H x D):

125 x 285 x 291 mm (5 x 11 1/4 x 11 1/2 inches)

Mass:

Approx. 2.5 kg (5 lb 8 oz) (not including viewfinder)

Camera

A/D conversion: 14 bits

Optical system: F 1.4 prism

Image device:

3-chip 2/3-inch type Power HAD CCD Total picture elements (H x V):

1038 x 1188

Smear level (typical):

-145 dB

Scan format:

50i, 25PsF

Built in filters:

1: CLEAR, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND A: CROSS, B: 3200K, C: 4300K, D: 6300K

Horizontal resolution (center):

700 TV Lines

Modulation depth (center):

80% (16:9)/60% (4:3)

Vertical resolution:

480 TV lines/530 TV lines (with EVS)

S/N ratio (typical):

65 dB

Sensitivity (typical):

F 11 at 2000 lx

(3200K 89.9% reflectance)

Gain selection:

 $-3,\ 0,\ +3,\ +6,\ +9,\ +12,\ +18,\ +24,\ +30,\ +36,$

+42 dB

Set-up memory card:

Memory Stick

Shutter speed:

1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s

Clear scan:

1/25(*) to 1/6000 s

Interface

Input connector:

Microphone: XLR 3-pin, -60 dBu

Output connector:

Test out: BNC type, 1.0 Vp-p, 75 Ω ,

unbalanced

Others:

Lens: 12-pin
View finder: 20-pin
Digital interface: 68-pin
Analogue interface: 68-pin

Lens mount: Special bayonet mount (B4)

Eco-info

Lead-free solder is used for soldering. Halogenated flame retardants are not used in the cabinets and the printed wiring boards.

(*)1/25-1/50 are on PsF mode.

DXC-D55PH 3-chip CCD Portable Colour Camera

Features

•Three 2/3-inch type Power HAD EX CCDs •Excellent picture quality: horizontal resolution of 920 TV lines, sensitivity of F11, signal-to-noise ratio of 63 dB, and smear level of -145 dB •14-bit A/D converter and ADSP (Advanced Digital Signal Processing) for faithful contrast reproduction and highly sophisticated image controls •Knee Saturation control for natural color reproduction even in highlight area •Adaptive Highlight Control realizes optimum contrast balance •Skin-Tone Detail function with auto detection of active area •Low Key Saturation function •Built-in optical ND filter and electronic CC function •Backlit switch panel •Memory Stick storage of camera setup parameters •Adjustable shoulder pad •EZ Mode and EZ Focus for quick camera setup •Auto Tracing White Balance (ATW) •Factory-preset matrix • Programmable gain: -3/0/3/6/9/12/18/24/30/36 dB • Variable-speed electronic shutter • Clear Scan (CLS) function -- 50.2 to 6000 Hz •Monitor output •Built-in 1 kHz audio reference • Date-and-time superimposition on the video signal and viewfinder •Enhanced Vertical-Definition System (EVS) • Auto iris mode (spot, backlight) •Mic low cut •Dual zebra •Multi-core CCU operation with the CA-D50 and CCU-D50P •Triax CCU operation with the CA-TX50P and CCU-TX50P



Supplied Accessories

Flange focal length adjustment test chart (1) Lens mount cap (1) Operating instructions (1)

Optional Accessories

AC-DN10 AC Adaptor/Charger CAC-12 Camera Microphone Holder CA-D50 Camera Adaptor CA-TX50P Camera Adaptor CCU-D50P Camera Control Unit CCU-TX50P Camera Control Unit RCP-D50 Remote Control Panel (Joystick Type) RCP-D51 Remote Control Panel (Dial Control Type) VCT-U14 Tripod Adaptor DXF-20W 2.0-inch Monochrome Viewfinder DXF-51 5-inch Monochrome Viewfinder DXF-801 1.5-inch Monochrome Viewfinder ECM-673 Electret Condenser Microphone ECM-674 Electret Condenser Microphone LCR-1 Camera Rain Cover MSH "Memory Stick" IC Memory Media

Production Cameras

Specifications

Power requirements:

DC 12 V (10.5 to 17 V)

Power consumption:

14 W

Operating temperature:

-10 °C to +45 °C (+14 °F to +113 °F)

Storage temperature:

-20 °C to +60 °C (-4 °F to +140 °F)

Operating humidity:

Less than 85%

Mass (camera head only):

2.2 kg (4 lb 13 oz)

Signal inputs/outputs

Video output:

Analog composite, BNC, 1.0 Vp-p,

sync negative

Monitor output:

Analog composite, BNC, 1.0 Vp-p,

sync negative

Microphone input:

XLR-3-pin

Other inputs/outputs

Camera/VTR interface: Pro 76-pin Digital, Pro 50-pin

Lens

12-pin

VF:

20-pin

Remote: 10-pin

Camera performance

Pickup device:

3-chip 2/3-inch type Power HAD EX CCD

Aspect ratio: 4:03

Total picture elements (H x V):

1038 x 1188

Effective picture elements (H x V):

980 x 582

Optical system:

F1.4 prism system

Built-in filters:

1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND

Lens mount:

Sony 2/3-inch bayonet mount

Signal system:

PAL color system

Scan format:

2:1 interlaced, 625 lines, 50 fields/s

Horizontal scan frequency:

15.625 Hz

Vertical scan frequency:

50 Hz

Sync system:

Internal and External with the VBS or

BS signal A/D conversion:

14 bits

Sensitivity:

F11 at 2000 lx (3200 K, 89.9% reflectance)

(typical)

Minimum illumination:

0.5 Ix with F1.4, Hyper gain (36 dB)/

0.8 lx with F1.8, Hyper gain (36 dB)

Smear level:

-145 dB (typical)

Video S/N ratio (typical):

63 dB

Horizontal resolution:

920 TV lines

Vertical resolution:

480 TV lines (without EVS),

530 TV lines (with EVS)

Shutter speed:

OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 s

Clear scan-

50.2 to 6000 Hz

Gain selection:

-3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB

Registration:

0.05% (all zones, without lens)

Geometric distortion:

Below measurable level

DXC-D55PL 3-chip CCD Portable Colour Camera

Features

•Three 2/3-inch type Power HAD EX CCDs •Excellent picture quality: horizontal resolution of 920 TV lines, sensitivity of F11, signal-to-noise ratio of 63 dB, and smear level of -145 dB •14-bit A/D converter and ADSP (Advanced Digital Signal Processing) for faithful contrast reproduction and highly sophisticated image controls Knee Saturation control for natural color reproduction even in highlight area •Adaptive Highlight Control realizes optimum contrast balance •Skin-Tone Detail function with auto detection of active area •Low Key Saturation function •Built-in optical ND filter and electronic CC function •Backlit switch panel •Memory Stick storage of camera setup parameters •Adjustable shoulder pad •EZ Mode and EZ Focus for quick camera setup •Auto Tracing White Balance (ATW) •Factory-preset matrix • Programmable gain: -3/0/3/6/9/12/18/24/30/36 dB •Variable-speed electronic shutter •Clear Scan (CLS) function -- 50.2 to 6000 Hz •Monitor output •Built-in 1 kHz audio reference • Date-and-time superimposition on the video signal and viewfinder •Enhanced Vertical-Definition System (EVS) • Auto iris mode (spot, backlight) •Mic low cut •Dual zebra •Multi-core CCU operation with the CA-D50 and CCU-D50P •Triax CCU operation with the CA-TX50P and CCU-TX50P



Supplied Accessories

DXF-801 (1)
VCT-U14 (1)
Microphone (1)
Flange focal length adjustment test chart (1)
Lens mount cap (1)
Operating instructions (1)

Optional Accessories

AC-DN10 AC Adaptor/Charger
CAC-12 Camera Microphone Holder
CA-D50 Camera Adaptor
CA-TX50P Camera Adaptor
CCU-D50P Camera Control Unit
CCU-TX50P Camera Control Unit
RCP-D50 Remote Control Panel (Joystick Type)
RCP-D51 Remote Control Panel (Dial Control Type)
DXF-20W 2.0-inch Monochrome Viewfinder
DXF-51 5-inch Monochrome Viewfinder
ECM-673 Electret Condenser Microphone
ECM-674 Electret Condenser Microphone
LCR-1 Camera Rain Cover
MSH "Memory Stick" IC Memory Media

Production Cameras

Specifications

General

Power requirements:

DC 12 V (10.5 to 17 V)

Power consumption:

1/1 \/\

Operating temperature:

-10 °C to +45 °C (+14 °F to +113 °F)

Storage temperature:

-20 °C to +60 °C (-4 °F to +140 °F)

Operating humidity:

Less than 85%

Mass (camera head only):

2.2 kg (4 lb 13 oz)

Signal inputs/outputs

Video output:

Analog composite, BNC, 1.0 Vp-p,

sync negative

Monitor output:

Analog composite, BNC, 1.0 Vp-p,

sync negative

Microphone input:

XLR-3-pin

Other inputs/outputs

Camera/VTR interface:

Pro 76-pin Digital, Pro 50-pin

Lens:

12-pin

VF:

20-pin Remote:

10-pin

Camera performance

Pickup device:

3-chip 2/3-inch type Power HAD EX CCD

Aspect ratio:

4:03

Total picture elements (H x V):

1038 x 1188

Effective picture elements (H x V):

980 x 582

Optical system:

F1.4 prism system

Built-in filters:

1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND

Lens mount:

Sony 2/3-inch bayonet mount

Signal system:

PAL color system

Scan format:

2:1 interlaced, 625 lines, 50 fields/s

Horizontal scan frequency:

15.625 Hz

Vertical scan frequency:

50 Hz

Sync system:

Internal and External with the VBS or

BS signal

A/D conversion:

14 bits

Sensitivity:

F11 at 2000 lx (3200 K, 89.9% reflectance)

(typical)

Minimum illumination:

0.5 lx with F1.4, Hyper gain (36 dB)/

0.8 lx with F1.8, Hyper gain (36 dB)

Smear level:

-145 dB (typical)

Video S/N ratio (typical):

63 dB

Horizontal resolution:

920 TV lines

Vertical resolution:

480 TV lines (without EVS),

530 TV lines (with EVS)

Shutter speed:

OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 s

Clear scan-

50.2 to 6000 Hz

Gain selection:

-3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB

Registration:

0.05% (all zones, without lens)

Geometric distortion:

Below measurable level

DXF-801 Viewfinder

CRT

1.5-inch monochrome, 4:3/16:9 switchable

Indicators

REC TALLY (2), TAKE TALLY, BATT,

SHUTTER, GAIN UP

Horizontal resolution

600 TV lines

Power requirements

DC 12 V

Power consumption

2.4 W

Mass

620 g (1 lb 9 oz)

Dimensions (W x H x D)

241 x 91 x 203 mm

(9 1/2 x 3 5/8 x 8 inches)

DXC-D55PK 3-chip CCD Portable Colour Camera

Features

•Three 2/3-inch type Power HAD EX CCDs •Excellent picture quality: horizontal resolution of 920 TV lines, sensitivity of F11, signal-to-noise ratio of 63 dB, and smear level of -145 dB •14-bit A/D converter and ADSP (Advanced Digital Signal Processing) for faithful contrast reproduction and highly sophisticated image controls •Knee Saturation control for natural color reproduction even in highlight area •Adaptive Highlight Control realizes optimum contrast balance •Skin-Tone Detail function with auto detection of active area .Low Key Saturation function •Built-in optical ND filter and electronic CC function •Backlit switch panel •Memory Stick storage of camera setup parameters •Adjustable shoulder pad •EZ Mode and EZ Focus for quick camera setup •Auto Tracing White Balance (ATW) •Factory-preset matrix • Programmable gain: -3/0/3/6/9/12/18/24/30/36 dB • Variable-speed electronic shutter • Clear Scan (CLS) function -- 50.2 to 6000 Hz •Monitor output •Built-in 1 kHz audio reference •Date-and-time superimposition on the video signal and viewfinder •Enhanced Vertical-Definition System (EVS) • Auto iris mode (spot, backlight) •Mic low cut •Dual zebra •Multi-core CCU operation with the CA-D50 and CCU-D50P •Triax CCU operation with the CA-TX50P and CCU-TX50P



Supplied Accessories

VCL-920BY (1)
DXF-801 (1)
VCT-U14 (1)
Microphone (1)
Flange focal length adjustment test chart (1)
Lens mount cap (1)
Operating instructions (1)

Optional Accessories

AC-DN10 AC Adaptor/Charger
CAC-12 Camera Microphone Holder
CA-D50 Camera Adaptor
CA-TX50P Camera Adaptor
CCU-D50P Camera Control Unit
CCU-TX50P Camera Control Unit
RCP-D50 Remote Control Panel (Joystick Type)
RCP-D51 Remote Control Panel (Dial Control Type)
DXF-20W 2.0-inch Monochrome Viewfinder
DXF-51 5-inch Monochrome Viewfinder
ECM-673 Electret Condenser Microphone
ECM-674 Electret Condenser Microphone
LCR-1 Camera Rain Cover
MSH "Memory Stick" IC Memory Media

Production Cameras

Specifications

General

Power requirements:

DC 12 V (10.5 to 17 V)

Power consumption:

14 W

Operating temperature:

-10 °C to +45 °C (+14 °F to +113 °F)

Storage temperature:

-20 °C to +60 °C (-4 °F to +140 °F)

Operating humidity: Less than 85%

Mass (camera head only):

2.2 kg (4 lb 13 oz)

Signal inputs/outputs

Video output:

Analog composite, BNC, 1.0 Vp-p,

sync negative Monitor output:

Analog composite, BNC, 1.0 Vp-p,

sync negative

Microphone input: XLR-3-pin

Other inputs/outputs

Camera/VTR interface:

Pro 76-pin Digital, Pro 50-pin

Lens 12-pin

VF:

20-pin Remote: niq-01

Camera performance

Pickup device:

3-chip 2/3-inch type Power HAD EX CCD

Aspect ratio:

4:03

Total picture elements (H x V):

1038 x 1188

Effective picture elements (H x V):

980 x 582 Optical system:

F1.4 prism system

Built-in filters:

1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND

Lens mount:

Sony 2/3-inch bayonet mount

Signal system: PAL color system

Scan format:

2:1 interlaced, 625 lines, 50 fields/s

Horizontal scan frequency:

15 625 Hz

Vertical scan frequency:

50 Hz Sync system:

Internal and External with the VBS or

BS signal

A/D conversion:

14 bits Sensitivity:

F11 at 2000 lx (3200 K, 89.9% reflectance)

(typical)

Minimum illumination:

0.5 lx with F1.4, Hyper gain (36 dB)/

0.8 lx with F1.8, Hyper gain (36 dB)

Smear level:

-145 dB (typical)

Video S/N ratio (typical):

63 dB

Horizontal resolution:

920 TV lines

Vertical resolution:

480 TV lines (without EVS),

530 TV lines (with EVS)

Shutter speed:

OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 s

Clear scan:

50.2 to 6000 Hz

Gain selection:

-3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB

Registration:

0.05% (all zones, without lens)

Geometric distortion:

Below measurable level

DXF-801 Viewfinder

CRT

1.5-inch monochrome, 4:3/16:9 switchable

Indicators

REC TALLY (2), TAKE TALLY, BATT,

SHUTTER, GAIN UP

Horizontal resolution

600 TV lines

Power requirements

DC 12 V

Power consumption

2.4 W

Mass

620 g (1 lb 9 oz)

Dimensions (W x H x D)

241 x 91 x 203 mm

(9 1/2 x 3 5/8 x 8 inches)

VCL-920BY Lens

Focal length

8.5 to 170 mm

7_{oom}

Manual or power selectable

Zoom ratio

20x

Maximum aperture

1:1.8

Aperture Manual or automatic selectable

Focusing range

Infinity to 0.9 m Filter attachment threads

82 mm dia. 0.75 mm pitch

Sony 2/3-inch type bayonet mount

Mass

Approx. 1.3 kg (2 lb 14 oz) including

lens hood

Dimensions (W x H x D) 122 x102 x 210 mm

(4 7/8 x 4 1/8 x 8 3/8 inches)

including lens hood, excluding lens grip

DXC-D55WSPH 3-chip CCD Portable Colour Camera

Features

•Three 2/3-inch type Power HAD EX CCDs •Excellent picture quality: sensitivity of F11, signal-to-noise ratio of 63 dB, and smear level of -145 dB •14-bit AD converter and ADSP (Advanced Digital Signal Processing) for faithful contrast reproduction and highly sophisticated image controls •Knee Saturation control for natural color reproduction even in highlight area •Adaptive Highlight Control realizes optimum contrast balance •Skin-Tone Detail function with auto detection of active area •Low Key Saturation function •Built-in optical ND filter and electronic CC function •Backlit switch panel Memory Stick storage of camera setup parameters •Adjustable shoulder pad •EZ Mode and EZ Focus for guick camera setup •Auto Tracing White Balance (ATW) •Factory-preset matrix •Programmable gain: -3/0/3/6/9/12/18/24/30/36 dB • Variable-speed electronic shutter •Clear Scan (CLS) function -- 50.2 to 6000 Hz •Monitor output •Built-in 1 kHz audio reference •Date-and-time superimposition on the video signal and viewfinder •Enhanced Vertical-Definition System (EVS) •Auto iris mode (spot, backlight) •Mic low cut •Dual zebra •Multi-core CCU operation with the CA-D50 and CCU-D50P •Triax CCU operation with the CA-TX50P and CCU-TX50P



Flange focal length adjustment test chart (1) Lens mount cap (1) Operating instructions (1)

Optional Accessories

CAC-12 Camera Microphone Holder CA-D50 Camera Adaptor CA-TX50P Camera Adaptor CCU-D50P Camera Control Unit CCU-TX50P Camera Control Unit RCP-D50 Remote Control Panel (Joystick Type) RCP-D51 Remote Control Panel (Dial Control Type) DXF-801 1.5 inch Monochrome Viewfinder DXF-20W 2.0-inch Monochrome Viewfinder DXF-51 5-inch Monochrome Viewfinder ECM-673 Electret Condenser Microphone ECM-674 Electret Condenser Microphone LCR-1 Camera Rain Cover MSH "Memory Stick" IC Memory Media VCT-U14 Tripod Adapter Microphone



Production Cameras

Specifications

General

Power requirements:

DC 12 V (10.5 to 17 V)

Power consumption:

14 W

Operating temperature:

-10 °C to +45 °C (+14 °F to +113 °F)

Storage temperature:

-20 °C to +60 °C (-4 °F to +140 °F)

Operating humidity:

Less than 85%

Mass (camera head only):

2.2 kg (4 lb 13 oz)

Signal inputs/outputs

Video output:

Analog composite, BNC, 1.0 Vp-p,

sync negative

Monitor output:

Analog composite, BNC, 1.0 Vp-p,

sync negative

Microphone input:

XLR-3-pin

Other inputs/outputs

Camera/VTR interface:

Pro 76-pin Digital, Pro 50-pin

Lens:

12-pin

VF:

20-pin

Remote:

10-pin

Camera performance

Pickup device:

3-chip 2/3-inch type Power HAD EX CCD

Aspect ratio:

16:9/4:3 switchable

Total picture elements (H x V):

1038 x 1188

Effective picture elements (H x V):

980 x 582

Optical system:

F1.4 prism system

Built-in filters:

1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND

Lens mount:

Sony 2/3-inch bayonet mount

Signal system:

PAL color system

Scan format:

2:1 interlaced, 625 lines, 50 fields/s

Horizontal scan frequency:

15.625 Hz

Vertical scan frequency:

50 Hz

Sync system:

Internal and External with the VBS or

BS signal

A/D conversion:

14 bits

Sensitivity:

F11 at 2000 lx (3200 K, 89.9% reflectance)

(typical)

Minimum illumination:

0.5 lx with F1.4, Hyper gain (36 dB)/

0.8 lx with F1.8, Hyper gain (36 dB)

Smear level:

-145 dB (typical)

Video S/N ratio (typical):

63 dB

Horizontal resolution:

850 TV lines (4:3 mode)

800 TV lines (16:9 mode)

Vertical resolution:

480 TV lines (without EVS),

530 TV lines (with EVS)

Shutter speed:

OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 s

Clear scan:

50.2 to 6000 Hz

Gain selection:

-3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB

Registration:

0.05% (all zones, without lens)

Geometric distortion:

Below measurable level

DXC-D55WSPL 3-chip CCD Portable Colour Camera

The DXC-D55WSPL is a portable color camera which uses the latest 14-bit A/D conversion circuit as well as the field-proven 2/3-inch type 16:9 Power HAD EX CCDs, deliverling excellent sensitivity and signal-to-noise ratio, together with reduced smear level.

Features

•Three 2/3-inch type Power HAD EX CCDs •Excellent picture quality: sensitivity of F11, signal-to-noise ratio of 63 dB, and smear level of -145 dB •14-bit AD converter and ADSP (Advanced Digital Signal Processing) for faithful contrast reproduction and highly sophisticated image controls •Knee Saturation control for natural color reproduction even in highlight area •Adaptive Highlight Control realizes optimum contrast balance •Skin-Tone Detail function with auto detection of active area •Low Key Saturation function •Built-in optical ND filter and electronic CC function •Backlit switch panel Memory Stick storage of camera setup parameters •Adjustable shoulder pad •EZ Mode and EZ Focus for guick camera setup •Auto Tracing White Balance (ATW) •Factory-preset matrix •Programmable gain: -3/0/3/6/9/12/18/24/30/36 dB • Variable-speed electronic shutter •Clear Scan (CLS) function -- 50.2 to 6000 Hz •Monitor output •Built-in 1 kHz audio reference •Date-and-time superimposition on the video signal and viewfinder •Enhanced Vertical-Definition System (EVS) •Auto iris mode (spot, backlight) •Mic low cut •Dual zebra •Multi-core CCU operation with the CA-D50 and CCU-D50P •Triax CCU operation with the CA-TX50P and CCU-TX50P

Supplied Accessories

DXF-801 (1)
VCT-U14 (1)
Microphone (1)
Flange focal length adjustment test chart (1)
Lens mount cap (1)
Operating instructions (1)

Optional Accessories

AC-DN10 AC Adaptor/Charger
CAC-12 Camera Microphone Holder
CA-D50 Camera Adaptor
CA-TX50P Camera Adaptor
CCU-D50P Camera Control Unit
CCU-TX50P Camera Control Unit
RCP-D50 Remote Control Panel (Joystick Type)
RCP-D51 Remote Control Panel (Dial Control Type)
DXF-20W 2.0-inch Monochrome Viewfinder
DXF-51 5-inch Monochrome Viewfinder
ECM-673 Electret Condenser Microphone
ECM-674 Electret Condenser Microphone
LCR-1 Camera Rain Cover
MSH "Memory Stick" IC Memory Media



Production Cameras

Specifications

General

Power requirements:

DC 12 V (10.5 to 17 V)

Power consumption:

14 \//

Operating temperature:

-10 °C to +45 °C (+14 °F to +113 °F)

Storage temperature:

-20 °C to +60 °C (-4 °F to +140 °F)

Operating humidity: Less than 85%

Mass (camera head only):

2.2 kg (4 lb 13 oz)

Signal inputs/outputs

Video output:

Analog composite, BNC, 1.0 Vp-p,

sync negative

Monitor output:

Analog composite, BNC, 1.0 Vp-p,

sync negative

Microphone input: XLR-3-pin

Other inputs/outputs

Camera/VTR interface:

Pro 76-pin Digital, Pro 50-pin

Lens:

12-pin

VF:

20-pin Remote:

10-pin

Camera performance

Pickup device:

3-chip 2/3-inch type Power HAD EX CCD

Aspect ratio:

16:9/4:3 switchable

Total picture elements (H x V):

1038 x 1188

Effective picture elements (H x V):

980 x 582

Optical system:

F1.4 prism system

Built-in filters:

1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND

Lens mount:

Sony 2/3-inch bayonet mount

Signal system:

PAL color system

Scan format:

2:1 interlaced, 625 lines, 50 fields/s

Horizontal scan frequency:

15 625 Hz

Vertical scan frequency:

50 Hz

Sync system:

Internal and External with the VBS or

BS signal

A/D conversion:

14 bits

Sensitivity:

F11 at 2000 lx (3200 K, 89.9% reflectance)

(typical)

Minimum illumination:

0.5 lx with F1.4, Hyper gain (36 dB)/

0.8 lx with F1.8, Hyper gain (36 dB)

Smear level:

-145 dB (typical)

Video S/N ratio (typical):

63 dB

Horizontal resolution:

850 TV lines (4:3 mode)

800 TV lines (16:9 mode)

Vertical resolution:

480 TV lines (without EVS),

530 TV lines (with EVS)

Shutter speed:

OFF, 1/60, 1/250, 1/500, 1/1000, 1/2000 s

Clear scan:

50.2 to 6000 Hz

Gain selection:

-3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB

Registration:

0.05% (all zones, without lens)

Geometric distortion:

Below measurable level

DXF-801 Viewfinder

CRT

1.5-inch monochrome, 4:3/16:9 switchable

Indicators

REC TALLY (2), TAKE TALLY, BATT,

SHUTTER, GAIN UP

Horizontal resolution

600 TV lines

Power requirements

DC 12 V

Power consumption

2.4 W

Mass

620 g (1 lb 9 oz)

Dimensions (W x H x D)

241 x 91 x 203 mm

(9 1/2 x 3 5/8 x 8 inches)

SONY

nsor Cameras

Sensor Cameras

BRC-300	2
BRC-H700	3
DXC-390P	3
DXC-990P	34
DAC C33D	2

BRC-300 3-CCD Colour Video Camera

Features

•1/4.7-type IT Mega Pixels 3-CCD with Advanced HAD technology •Unique-all-in-one design - Combines camera, lens & pan/tilt mount •48x zoom capability •Minimum illmination - 7 lx at F1.6 •Horizontal resolution 600 TV lines •High performance Pan/Tilt/Zoom mechanism •4:3/16:9 aspect selectable (16:9 precision technology) •Image flip function - Allows for desk top or ceiling mount installation •Optional interface card slot - RGB, SDI, and Fibre •Optional easy-to-use and ergonomic designed RemoteControl Unit - Remotely control via RS-232C and RS-422 (VISCA protocol) •Optional Optical Multiplex Unit - Allows for long-distance operation using fibre cable



AC adaptor (1)
IR remote commander (1)
Terminal connector (1)
AC adaptor cable (1)
Ceiling bracket (2)
Operating instructions (1)

Optional Accessories

BRBK-301 Analogue/RGB Component Card BRBK-302 SDI Card BRBK-303 Optical Multiplex Card RM-BR300 Remote Control Unit BRU-300 Optical Multiplex Unit CCFC-M100 Optical Fibre Cable CCXC-9DBS Cable 9-pin/5BNCs Cable VCL-HG0737X Wide Conversion Lens CCMC-9DS Cable 9-pin/4BNCs, DIN 4-pin





Sensor Cameras

```
Specifications
Image device:
   Three 1/4.7 type IT Advanced HAD CCD (x3),
   1070000pixels (gross)
CCD effective pixels
   4:3 mode:
      960 (H) x 720 (V)
   16:9 mode:
      1,152 (H) x 648 (V)
Effective pixels
   NTSC:
      768 (H) x 494 (V)
      752 (H) x 582 (V)
Signal systems:
  NTSC/PAL
Horizontal resolution:
   600 TV lines(4:3 mode)
Sync systems:
   Internal/External
Lens:
   12x optical zoom, 48x with digital zoom
Focal length:
   f = 3.6 \text{ to } 43.2 \text{ mm} \text{ (F1.6 to F2.8)}
Horizontal viewing angle
   4:3 mode:
      3.3 (Tele end) to 37.8 degrees (Wide end)
   16:9 mode:
     4.0 (Tele end) to 45.4 degrees (Wide end)
Minimum object distance:
   300 mm (Wide end), 800 mm (Tele end)
Pan/Tilt angle:
   -170 to +170 degrees (Pan), -30 to +90
   degrees (Tilt)
Pan/Tilt speed:
   0.25 to 60 degrees/s (Pan/Tilt)
Minimum illumination:
   7 lx at F1.6
S/N ratio:
   50 dB
Shutter speed
   NTSC:
      1/10000 to 1/4 s
   PAL:
      1/10000 to 1/3 s
Gain:
   Auto/Manual (-3 to 18 dB, 3 dB steps)
   switchable
White balance:
   Auto, Indoor, Outdoor, One-push WB, Manual
Preset positioning:
   6 positions
Analogue output:
   VBS (BNC), Y/C (4-pin Mini DIN)
Camera control interface:
   RS-232C (VISCA protocol) / RS-422 (VISCA
   protocol)
Back-light compensation:
   On / Off
Operating temperature:
   0 to 40 degrees (32 to 104 °F)
Storage temperature:
   -20 to 60 degrees (-4 to 140 °F)
Power requirement:
   DC 12 V
Power consumption:
   21.6 W (without optional card)
Dimensions (W x H x D):
   180 x 210.1 x 205 mm (7 1/8 x 8 3/8 x 8 1/8 x
   inches) (without projection ports)
Mass:
```

2.7 kg (5 lb 15 oz)

BRC-H700 HD 3CCD Colour Video Camera

Features

- •Superb picture quality with three 1.07 megapixel HD CCDs •High-performance Pan/Tilt/Zoom mechanism
- •RS-232C/RS-422 remote control (VISCA protocol)
- •Versatile video outputs •Flexible installation ceiling mount or flat surface •Sixteen presets •Multi-function IR remote commander unit •Easy-to-use and ergonomically designed remote control unit (RM-BR300) •Optical multiplex unit (BRU-H700)

Supplied Accessories

IR Remote Commander Unit
Wire rope
Mounting screws
Operating instructions
AC adaptor
AC power cable
Ceiling bracket

RS-422 terminal block connector **Optional Accessories**

BRBK-H700 HD Optical Multiplex Card With Audio IN (RCA pin)
HFBK-HD1 HD SDI Output Board
HFBK-SD1 SDI Output Board
HFBK-XG1 XGA Output Board
RM-BR300 Remote Control Unit
CCMC-9DS Cable 9-pin/4BNCs, DIN 4-pin
CCXC-9DBS Cable 9-pin/5BNCs Cable
HFBK-TS1 iLINK (HDV) Output Board

Service Parts

HD Optical Multiplex Unit





Sensor Cameras

```
Specifications
Image device
   Three 1/3 type IT CCDs
Total picture elements
   Approx. 1.12 Megapixels
Effective picture elements
  Approx. 1.07 Megapixels
Signal systems
  1080/59.94i, 1080/50i (switchable)
Lens
  12x optical zoom, 48x with digital zoom
   Carl Seiss Vario-Sonnar T*(R)
Focal length
  f=4.5 to 54.0 mm (F1.6 to F2.8)
Minimum object distance
  800 mm (Tele end)
Horizontal viewing angle without Image Stabilization
   5.5 degrees (Tele) to 60.3 degrees (Wide)
Vertical viewing angle without Image Stabilization
   3.1 degrees (Tele) to 36.2 degrees (Wide)
Focus system
  Auto/Manual
Pan/Tilt angle
  -170 to +170 degrees (Pan),
   -30 to +90 degrees (Tilt)
Pan/Tilt speed
  0.25 to 60 degrees/s (Pan/Tilt)
Minimun illumination
  6 lx (50 IRE, F1.6)
S/N ratio
  50 dB
Shutter speed
  1/10,000 to 1/59.94 (1/50) s
Gain
  Auto/Manual (0 to 18 dB and Hyper Gain)
White balance
  Auto, Indoor, Outdoor, One-push WB, Manual
Optical Image Stabilizer
  On/Off
Image flip
  On/Off
ND filter
  Off/ND1/ND2
Preset positioning
   16 positions
Video output (Built-in)
  Analogueue RGB, Analogue Y/Pb/Pr
Video output (With optional card(s))
  HFBK-HD1: HD-SDI,
  HFBK-SD1: Down converted SD
   (RGB, Y/Cb/Cr, Y/C, Composite, SDI x2)
   HFBK-XG1: WXGA, XGA, VGA,
  HFBK-TS1: HDV
Camera control interface
  RS-232C/RS-422 (VISCA protocol)
Backlight compensation
  On/Off
Operating temperature
  0 to 40 degrees (32° to 104° F)
Storage temperature
   -20 to 60 degrees (-4° to 140° F)
Power requirements
  DC 12 V
Power consumption
  Max. 24 W (without optional card)
Dimensions (Diameter x H)
  207 x 315.8 mm (8 ¼ x 12 ½ inches)
Mass
```

4.5 kg (9 lb 15 oz)

DXC-390P 3-CCD Colour Video Camera

Features

•1/3 type IT 3CCDs •C mount •Exwave HAD technology provides excellent sensitivity and low smear levels
•Superior picture quality: High resolution of 800 TV lines and S/N ratio of 61 dB •High Sensitivity of F8 at 2000 lux
•Scene Files and User Files •Powerful picture contrast controls: DynaLatitude, DCC+ and Black Stretch •Several enhance controls: Detail, Linear Matrix and Partial Enhance •Wide selection of Automatic Exposure (AE) modes •Hyper Gain •RGB, Y/C and composite video outputs •Full control of functions from the side panel or the optional RM-C950 Remote Control Unit

Supplied Accessories

Lens cap (1)
Tripod adaptor (1)
Operation manual (1)
Panel sheet for RM-C950 (1)

Optional Accessories

VCL-616WEA 1/3 Type C-mount Lens RM-C950 Remote Control Unit CMA-D2CE Camera Adaptor CMA-D3CE Camera Adaptor CCDC cables 12-pin/4-pin DC Cables CCXC-12 cables 12-pin/12-pin Multi Core Cables CCMC-9DS Cable 9-pin/4BNCs, DIN 4-pin





Sensor Cameras

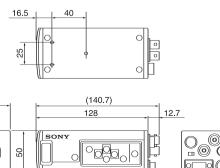
Specifications Image device: 1/3 type IT (Interline Transfer) CCD (x3) Effective picture elements: 752 (H) × 582 (V) Sensing area: 6.00 (H) × 4.96 (V) mm Scanning system: 2:1 interlaced, 625 lines Horizontal frequency: 15.625 kHz Vertical frequency: 50 Hz Sync system: Internal or External with VBS, HD/VD(Automatic Switching) Phase control: H/SC phase control Horizontal resolution: 800TV lines Lens mount: C. mount Flange back: 17.526 mm in air Sensitivity: F8.0 at 2000 lux Minimum illumination 4 lux (F2, GAIN:HYPER) S/N ratio: 61 dB Gain STEP/AGC/HYPER selectable STEP: 0 to 24 dB by 1 dB step AGC: 0 to 24 dB (Limit value: 6 dB, 12 dB, 18 dB, 24 dB variable) HYPER: 30 dB Electronic shutter OFF/STEP/VARIABLE/CCD IRIS selectable OFF: 1/50 s STEP: OFF (PAL:1/50 s), F.L.(PAL:1/120 s), 1/125, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000, 1/20000, 1/40000, 1/100000, 0.1, 0.2, 0.3, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0, 6.0, 7.0, 805 VARIABLE: in high-speed mode 310/625 to 1/625H, OFF in low-speed mode 255 to 1 frames for field mode 256 to 2 frames for frame mode CCD IRIS: 1/60 to 1/100,000 s (Limit value: 1/500, 1/1000, 1/2000, 1/4000, 1/10000, 1/20,000, 1/40,000, 1/100,000 s variable) Lens: Remote (Auto or Manual)/Video selectable Multi/Large/Medium/Spot/Slit/Manual selectable AE level: Variable AE speed: Fast/Mid/Slow selectable AE detect: Average/Peak selectable Contrast Effect: Manual/DynaLatitude/DCC+ selectable

Knee Point High/Normal/Low selectable(Contrast Effect: Manual) Black stretch: Variable (Contrast Effect: Manual) Gamma: ON/OFF Variable Pedestal Master and R/B Manual adjustable Black balance: ARR White balance: AWB/ATW NORMAL/ATW WIDE/MANUAL/3200K/5600K selectable AWB or ATW R/B Paint, MANUAL R/B Gain. ATW area: NORMAL/MANU selectable ATW speed: FAST/NORMAL/SLOW selectable Detail level: ON/OFF (Variable at ON) Detail Frequency: HIGH/MID/LOW selectable Linear matrix: ON/OFF Linear matrix MODE: STANDARD/R Enhance/G Enhance/B Enhance/Manual selectable Partial Enhance: ALL/IN/OUT selectable CCD integration mode: FIELD/FRAME selectable Shading Compensation: OFF/ON (Manual control) Trigger Polarity: Positive edge trigger /Negative edge trigger selectable Baud rate: 19200/9600/4800/2400/1200 selectable Sync: RGB/G/OFF selectable Strobe: ON/OFF User File: A/B switchable (Two pattern memories) Scene File: STANDARD/MICROSCOPE/FULL AUTO/STROBE/FILE A or B Output signal VBS: 1.0 Vp-p, 75 Ω , sync negative RGB 0.7 Vp-p, 75 Ω, Sync ON/OFF possible

1.0 Vp-p, 75 Ω C 0.3 Vp-p, 75 Ω , without sync Operating temperature: -5 to 45°C Storage temperature: -20 to 60°C Power requirements: DC 10.5 to 15.0 V Power consumption: Approx. 7.6 W Dimensions: 56 (W) x 50 (H) x 128 (D) mm (Excluding projecting parts) Weight: Approx. 370 g Connectors: Lens (6-pin) RGB/SYNC (9-pin D-sub) DC IN/VBS (12-pin) VIDEO OUT (BNC) TRIGGER IN (BNC) REMOTE (8-pin mini DIN)

SYNC:

2 Vp-p, 75 Ω



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DXC-990P 3-CCD Colour Video Camera

The DXC-990P is a 1/2 type 3-CCD colour video camera featuring a new DSP technology as well as Exwave HAD technology for excellent sensitivity (F11@2000 lux) and low vertical smear. Using a bayonet mount lens and providing a resolution of 850 TV lines and high S/N ratio (62 dB), the DXC-990P is ideal for applications such as semiconductor inspection, printing inspection and microscopy, where picture accuracy and detail are important. All functions are easily controlled from the camera's rear panel with an optional RM-C950 Remote Control Unit or an external computer via an RS-232C interface. Multiple component, RGB, Y/C and composite video signal outputs allow the DXC-990P to be integrated into virtually any industrial video system. Optional adapters and couplers are available for mounting onto various types of microscopes.

Features

•New Digital Signal Processing (DSP) technology for powerful picture contrast controls •Partial Enhance •DynaLatitude •DCC+ •High Sensitivity (F11@2000 lux) •Y/C, RGB, Y/R-Y/B-Y, and composite video signal outputs •Linear matrix, shading compensation, master pedestal and gamma selection •Flash synchronisation function •Full colour genlock •CCD iris and adjustable window Auto Exposure •Fixed, One-push, Manual and Automatic White Balance •Colour shading matrix and painting connections •Two set up memories •Colour bar generator •Cable extension up to 100 m with CMA-D3 adaptor

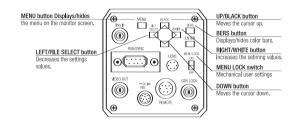
Supplied Accessories

Lens mount cap (1) Stopper mount (1) Operation manual (1) Panel sheet for RM-950 (1)

Optional Accessories

CMA-D2CE Camera Adaptor
CMA-D2MDCE Camera Adaptor
CMA-D3CE Camera Adaptor
CCXC-12 cables 12-pin/12-pin Multi Core Cables
CCDC cables 12-pin/4-pin DC Cables
CCMC-9DS Cable 9-pin/4BNCs, DIN 4-pin
CCMC-3MZ Cable
RM-C950 Remote Control Unit
VCL-0716BXA 1/2 Type Bayonet Mount Lens





Sensor Cameras

Specifications

Image device:

1/2 type IT (Interline Transfer) Exwave CCD

(x3)

Effective picture elements:

752 (H) x 582 (V)

Sensing area:

6.4 x 4.8 mm

Horizontal frequency: 15.734 kHz

Vertical frequency: 59.94 Hz

Sync sytem:

Internal or external with VBS, HD/VD

Horizontal resolution: 850 TV lines Sensitivity: F11 (2000 lux)

Minumum illumination:

1 lux (F1.4, GAIN: HYPER)

S/N ratio: 62 dB Gain:

STEP/AGC (0 to 24 dB)/HYPER

Shutter speed: 0.5 to 1/100,000 s Lens mount: Bayonet mount AE area:

Multi/Large/Medium/Spot/Slit/Manual

AE level: Variable AE speed:

Fast/Mid/Slow selectable

AE detect:

Average/Peak selectable

Contrast effect:

Manual/DynaLatitude/DCC+ selectable

Knee point:

High/Normal/Low selectable

Black stretch: Variable Gamma:

On/Off Pedestal:

Master, R/B manual adjustable

Black balance: ABB

White balance:

AWB/ATW normal/ATW wide/Manual/3200

K/5600 K selectable

AWB or ATW R/B paint, manual R/G gain

ATW area:

Normal/Manual

ATW speed:

Slow/Mid/Fast

Detail level:

On (Variable)/Off

Detail frequency:

High/Mide/Low

Linear matrix:

 $\Omega n/\Omega ff$

Linear matrix code:

STANDARD/R Enhance/G Enhance/B

Enhance/Manual selectable

Partial enhance:

All/In/Out

CCD integration mode:

Field/Frame

Shading compensation:

On/Off (manual)

Trigger polarity:

Positive edge trigger/Negative edge

trigger selectable

Raud rate:

19200/9600/4800/2400/1200

Sync:

RGB/G/OFF

Trigger: On/Off

User file:

A/B Scene file:

Standard/Microscope/Full Auto/Strobe/File

A or B

Output signals:

VBS, RGB/SYNC, Y/C, Y/R-Y/B-Y

Serial data:

RS-232C

Operational temperature: -5 to 45°C (23 to 113°F)

Storage temperature: -20 to 60°C (-4 to 140°F)

Power requirements: DC 10.5 to 15.0 V

Power consumption:

Approx. 8.0 W Dimensions:

70 x 72 x 123.5 mm (2 7/8 x 2 7/8 x 4 7/8

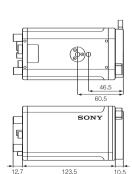
inches)

Mass: 630 g (1 lb 6 oz)

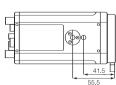
Connectors:

RGB/SYNC (9-pin D-sub), DC IN/VBS (12-pin), VIDEO OUT (BNC), TRIGGER IN (BNC), REMOTE (8-pin mini DIN), GEN

LOCK IN (BNC), LENS (6-pin)







DXC-C33P 3-CCD Colour Video Camera

Ideal for use in space-limited locations, the DXC-C33P incorporates one of the smallest/lightest camera head unit featuring three 1/3 type CCDs. In spite of its compact (32 (W) x 38 (H) x 40 (D) mm, 1 5 /16 x 1 1 /2 x 1 5 /8 inches) and lightweight (48 g, 1.7 oz) camera head unit, this model inherits superb picture quality of the DXC Series. Its horizontal resolution is 850 TV lines and the high sensitivity is 2000 lux at F8. Also, various features such as DynaLatitude, Partial Enhance are provided to this model. First for the DXC Series and also first for 3-CDD small head cameras, the DXC-C33P is equipped with a DV output terminal. Thanks to the DV output terminal, video signals can be recorded to i.LINK interface-equipped VTR with no quality deterioration. With the excellent features and medical approval, the DXC-C33P is the right choice for medical fields, and also for demanding applications such as research and industrial fields.



•Small camera head •High picture quality •i.LINK DV out •10-bit DSP •Dynalatitude •Frame memory •Partial Enhance •User-friendly control panel •Two AE areas preset •RS-232C interface •External synchronisation (HD/VD, VBS)

Supplied Accessories

Tripod adaptor (1)
AC power cable (1)
Lens cap (1)
Panel sheet for RM-C950 (1)
Operation manual (1)

Optional Accessories

RM-C950 Remote Control Unit CCMC-20 cables 20-pin/20-pin Cable CCMC-9DS Cable 9-pin/4BNCs, DIN 4-pin





Sensor Cameras

Specifications Image device: 1/3 type IT (Interline Transfer) CCD (x3) Effective picture elements: 752 (H) x 582 (V) Sensing area: 4.8 (H) x 3.6 (V) mm Scanning system: 2:1 interlaced, 625 lines Horizontal frequency: 15.625 kHz Vertical frequency: 50 Hz Sync system: Internal or external with VBS or HD/VD Phase control: H/SC phase control Horizontal resolution: 850 TV lines Lens mount: C mount Flange back: 17.526 mm in air Sensitivity: F8.0 at 2000 lux (3200 K) Minimum illumination: 4 lux (F2, GAIN: HYPER) S/N ratio: 61 dB (Typical) Gain STEP/AGC/HYPER selectable STEP: 0 to 24 dB by 1 dB step AGC: 0 to 24 dB (Limit value: 6 dB, 12 dB, 18 dB. 24 dB selectable) HYPER: 30 dB Electronic shutter 8.0 to 1/100,000 s Lens Manual Iris AE area: Multi/Large/Medium/Spot/Slit/Manual selectable AF level Variable AE speed: Fast/Mid/Slow selectable AE detect: Average/Peak selectable Contrast effect: Manual/DynaLatitude/DCC+ selectable Knee point: High/Normal/Low selectable (Contrast Effect: Manual) Black stretch: Variable (Contrast Effect: Manual) Gamma: ON/OFF (Variable at ON) Master and R/B Manual adjustable Black balance: ABB White balance: AWB/ATW NORMAL/ATW WIDE/MANUAL/3200 K/5600 K selectable AWB or ATW R/B Paint, MANUAL R/B Gain ATW area: NORMAL/MANU selectable

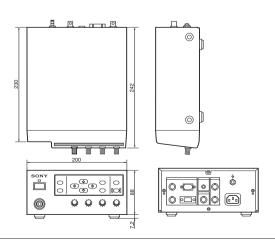
ATW speed:

FAST/NORMAL/SLOW selectable

Detail level ALL/TARGET/OFF (Variable at ALL or TARGET) Detail frequency: HIGH/MID/LOW selectable Linear matrix: ALL/TARGET/OFF Linear matrix mode STANDARD/R Enhance/G Enhance/B Enhance/Manual selectable Partial enhance: ALL/IN/OUT selectable CCD integration mode: FIELD/FRAME selectable Shading compensation: OFF/ON (Manual control) Trigger polarity: Positive edge trigger/Negative edge trigger selectable Baud rate: 19200/9600/4800/2400/1200 selectable Sync: RGB/G/OFF selectable Strobe: Slave User file: A/B switchable (Two pattern memories) Scene file: STANDARD/MICROSCOPE/FULL AUTO/STROBE/FILE A or B Output signal i.LINK (DV): IEEE1394 Based VBS: 1.0 Vp-p, 75 Ω , sync negative 0.7 Vp-p, 75 Ω, sync switchable SYNC: 2 Vp-p, 75 Ω Y: 1.0 Vp-p, 75 Ω C: PAL 0.3 Vp-p, 75 Ω , without sync Operating temperature: -5 to 45°C (23 to 113°F) Storage temperature: -20 to 60°C (-4 to 140°F) Power supply: AC 100 to 240 V, 50/60 Hz Power consumption: Max. 18 W

CHU: 32 (W) x 38 (H) x 40 (D) mm (1 5 /16 x 1 1 /2 x 1 5 /8 inches) CCU: 200 (W) x 88 (H) x 242 (D) mm (7 7 /8 x 3 1 /2 x 9 5 /8 inches) CHU: 48 g (1.7 oz) CCU: 2.5 kg (5 lb 8 oz) Connectors: DV OUT (6-pin jack) RGB/SYNC (9-pin D-sub) VIDEO OUT (BNC) S-VIDEO (4-pin mini DIN) FS/TRIG IN (Stereo Mini jack) REMOTE (8-pin mini DIN) AC Inlet Camera (20-pin)

Dimensions



SONY

Camera Accessories & Peripherals

RCP-75070 RCP-751.....70 RCP-92071 RCP-921.....71 RCP-D5172 RM-BR300 73 RM-C95073 RMM-301 73 VCL-0716BXA 74 VCL-616WEA74 WLL-CA55 79 WLL-RX55 80

BKP-9057	40
BRBK-301	
BRBK-302	
BRBK-303	41
BRBK-304	41
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	42
BVF-20WCE	43
	43
BVF-77CE	44
	45
CA-590P	
	46
	47
CA-TX50P	48
CA-WR855	49
	50
0.40-12	
CAC-4	
CCU-590P	
CCU-790P	52
CCU-D50P	53
CCU-TX50P	54
	55
	56
CNU-700	57
DXF-20W	57
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	58
HDVF-C35W	59
HDVF-700A	60
HDVF-C730W	61
	62
HDVF-9900	62
HFBK-HD1	
=	
	63
HFBK-XG1	63
HKCU-1001	64
	64
HKCU-1005	
	65
	65
LC-HB330	65
LCR-1	66
LO-23	66
LO-26	66
20 20	50

BKP-9057 Viewfinder Saddle

Features

•For mounting 7-inch type viewfinder (BVF-77/77CE), on the CA-905K/905F/905L •Flexible panning •Easy handling

 $^{\circ}\text{When the BKP-9057}$ is used, 'Picture in Picture' function of the seven-inch viewfinder does not work.

Applicable Models

BVP-E30P 3-chip CCD Portable Colour Camera BVP-E30WSP 3-chip CCD Portable Colour Camera

Supplied Accessories

Installation manual (1) MS-59/60 board (1) VF connector cable (1) Harness (1) Mounting screws (1)

Specifications

Dimensions:

368 (W) x 373 (H) x 534 (D) mm

(14 1/2 x 14 3/4 x 21 1/8 inches)

(with CA-905, without viewfinder)

Mass:

2.3 kg (5 lb 1 oz)

Connectors:

Viewfinder 20-pin (to camera)

Viewfinder 25-pin (to VF)

Panning degree:

BVP-E30P/WSP:

± 30°

(After the BKP-9057 is moved 20 mm

backward and 20 mm upward, it will

become ±90°)



BRBK-301 Analogue/RGB Component Card

Allows an analogue/RGB component output for the BRC-300/BRU-300

Applicable Models

BRC-300 3-CCD Colour Video Camera BRU-300 Optical Multiplex Unit



BRBK-302 SDI Card

Allows a SDI output for the BRC-300/BRU-300

Applicable Models

BRC-300 3-CCD Colour Video Camera BRU-300 Optical Multiplex Unit



BRBK-303 Optical Multiplex Card

Allows video output, external synch, and control for the $\ensuremath{\mathsf{BRC-300}}$

Applicable Models

BRC-300 3-CCD Colour Video Camera



BRBK-304 DV Card

Allows a DV output for the BRC-300/BRU-300

Applicable Models

BRC-300 3-CCD Colour Video Camera



BRBK-H700 HD Optical Multiplex Card

HD Optical Multiplex Card for use with BRC-H700 HD 3CCD Colour Video Camera

Applicable Models

BRC-H700 HD 3CCD Colour Video Camera



BRU-300 Optical Multiplex Unit

Features

•The BRU-300 converts uncompressed digital data from the BRC-300 3CCD Colour Video Camera (with the optional BRBK-303 Optical Multiplex Card) into various video outputs.

Applicable Models

BRC-300 3-CCD Colour Video Camera

Supplied Accessories

AC power cable (1)
Terminal connector (1)
RS-232C cable (1)
Operating instructions (1)

Optional Accessories

RM-BR300 Remote Control Unit BRBK-301 Analogue/RGB Component Card BRBK-302 SDI Card CCFC-M100 Optical Fibre Cable





BRU-H700 HD Optical Multiplex Unit

Features

The BRU-H700 is an HD optical multiplex unit for use with the BRC-H700 HD 3CCD colour video camera. Uncompressed digital data including external sync, camera control and audio signals can be transmitted via the BRU-H700 when used with the BRBK-H700 HD optical multiplex card installed in the BRC-H700.

Applicable Models

BRC-H700 HD 3CCD Colour Video Camera

Supplied Accessories

AC power cable (1)
Operating instructions (1)
RS-232C cable (1)
RS-422 terminal block connector (1)

Specifications

Optical fibre connector

Multi mode, LC-type Fibre Connector
Video output (Built-in)

Analogue RGB, Analogue Y/Pb/Pr

HFBK-HD1: HD-SDI, HFBK-SD1: Down converted SD (RGB, Y/Cb/Cr, Y/C, Composite, SDI x2)

Video output (With optional card : slot x2) HFBK-XG1 : WXGA, XGA, VGA,

HFBK-TS1: HDV

Camera control interface

RS-232C/RS-422 (VISCA protocol) Sync systems

Internal/External
Multiple connection
Up to 7 Units

Operating temperature 0 to 40 degrees (32 to 104 °F)

Storage temperature -20 to 60 degrees (-4 to 140 °F)

Power requirements 59.94 i : AC 100 to 120 V (50/60 Hz) 50 i : AC 220 to 240 V (50/60 Hz) Power consumption

Max. 10 W (without optional cards) Dimensions (WxHxD)

210 (W) x 240 (D) x 86 (H) mm (8 3 /8 x 9 1 /2 x 3 1 /2 inches)

Mass

2.7 kg (5 1b 15 oz)



BVF-20WCE 2-inch Type 16:9 B/W Viewfinder

Features

•2-inch type 16:9 widescreen B/W CRT viewfinder for the portable camera •High resolution-600 TV lines at centre in both 16:9 and 4:3 modes •Diagonal size is 1.5-inch in 4:3 mode and 2.0-inch in 16:9 mode to ensure easy focusing even in 16:9 mode •The eye-piece is removable from the viewfinder to allow direct view of the CRT •Tally indicators on both front and rear of the viewfinder as well as on the screen of the viewfinder •Supplied with a new external microphone



Applicable Models

BVP-E30P 3-chip CCD Portable Colour Camera BVP-E30WSP 3-chip CCD Portable Colour Camera

DVW-970P Digital Betacam Camcorder MSW-970P MPEG IMX Camcorder

Supplied Accessories

Operation manual (1)

Optional Accessories

BKW-401 Viewfinder Rotation Bracket

Specifications

General

Power requirements:

9.3 V DC

Power consumption:

2.3 W

Operating temperature:

-20°C to +45°C (-4°F to +113°F)

Storage temperature:

-20°C to +60°C (-4°F to +140°F)

External dimensions:

229(W) x 76(H) x 215(D) mm

(9 1/2 x 3 x 8 1/4 inches)

Mass:

580 g (1 lb 4 oz)

Performance

CD

2-inch monochrome Horizontal resolution:

600 TV lines (at centre)

Indicators:

REC/TALLY, BATT, VTR, SAVE, ! (warning) Compensation for aberrations:

-3.6D to +0.4D

BVF-55CE 5-inch Type B/W Viewfinder (CCIR)

Features

•650 TV lines of resolution at centre •High brightness—600NIT •Adjustable centre position marker with ON/OFF switch •Panning and tilting facility •Easy installation and handling

Applicable Models

BVP-E30P 3-chip CCD Portable Colour Camera

BVP-E30WSP 3-chip CCD Portable Colour Camera

Supplied Accessories

Connecting cables (12-pin - 20-pin) (1) Slide shoe (1)

V wedge shoe attachment (1)

Screws (1)

Monitor hood for studio use (1)

Specifications

General

Operating temperature:

-10 to +50 °C (+14 to +122 °F)

Mass

1.9 kg (4 lb 3 oz)

External dimensions:

191(W) x 188(H) x

291(D)mm

(7 5/8 x 7 1/2 x 11 1/2 inches)

Performance

Screen size:

73(H) x 97(W)mm underscan

(2 7/8 x 3 7/8 inches)

Power requirements:

DC 12 V Power consumption:

10 W Resolution:

650 TV lines at centre

550 TV lines at corners Picture distortion:

Less than 3%





BVF-77CE 7-inch Type B/W Viewfinder (CCIR)

Features

For use with BVP-E30 series cameras in conjunction with CA-905F large lens adaptor and BKP-9057 viewfinder saddle •Compact size with reduced height, light weight and low power consumption •Wide range of mechanical positioning and fixed centre of gravity •Extremely high centre resolution of 800 TV lines and wide peaking range contribute to a very crisp image and accurate focusing ·Large, very easy to see tally lamps ·Underscan display



Applicable Models

CA-905F plus BKP-9057

Specifications

General

Power requirements:

DC 10.5 to 17.0 V DC 12.0 (typical)

Power consumption:

23 W

Mass:

5.0 kg (11 lb)

External dimensions:

265(W) x 178(H) x 321(D)mm (10 1/2 x 7 1/8 x 12 3/4 inches)

Performance

CRT:

7-inch 90-degree deflection

Screen size:

120(H) x 90(D) mm (normal)

(4 3/4 x 3 5/8 inches)

Tilting angle:

+60°/-40°

Brightness:

More than 500cd/m 2 (146fL)

Resolution:

800 lines (centre)

600 lines (corner)

Geometric distortion:

Within 1.0%

Linearity:

Within 3%

Stability of raster size:

Within 2%

Contrast/Brightness/Peaking

Peaking SW/Power

SW Scan Size SW

Aperture correction:

0 to 15 dB



Note: Also available in black (BVF-77CE/B).

CA-590P Camera Adaptor

The CA-590P is a triax camera adaptor used to connect the BVP-E30P/E30WSP series cameras to the CCU-790P/590P Camera Control Unit.

Applicable Models

BVP-E30P 3-chip CCD Portable Colour Camera BVP-E30WSP 3-chip CCD Portable Colour Camera CCU-590P Portable Camera Control Unit CCU-790P Camera Control Unit

Supplied Accessories

Triax cable holder Carrying belt M3 x 6 screw Operation manual

Optional Accessories

CCA-5 Cables 8-pin/8-pin Remote Control Cable



CA-905F Large Lens Adaptor (Fischer Type)

Features

- ·Adaptor to attach a large lens to portable cameras
- •Compact and lightweight •Easy lens attachment and detachment •Vertical/horizontal adjustment •Stabilising mechanism for complete matching with the lens mount and the camera position •Combined use with 7-inch type viewfinder (with BKP-9057 viewfinder saddle) provides a wide range of applications

*CA-905 can not be used in the following combination of a viewfinder and a CCU —-CA-905+BVF-7700/7700P and CCU-550A/550AP



Lens, camera, camera adaptor, viewfinder, VF saddle, tripod are optional

Applicable Models

BVP-E30P 3-chip CCD Portable Colour Camera BVP-E30WSP 3-chip CCD Portable Colour Camera

Supplied Accessories

Number plate (2)
Cable clamp (2)
Operation manual including BKP-9057 operation (1)
Maintenance manual part 1 (1)

Specifications

General

Power Consumption: 90 W (w/ lens, VF and BKP-9057) Operation temperature:

-20 to + 45 °C (-4 to 113°F)

Storage temperature: -20 to + 55°C (-4 to 130°F)

Mass:

12 kg (26 lb 7 oz)

Dimensions: 368 x 327 x 534 mm

(14 1/2 x 12 7/8 x 21 1/8 inches)

Connectors

CCU

Triax (Fischer type)

Lens:

12-pin (to camera)

Lens

36-pin (to lens)

Command:

8-pin (to camera)

CA-D50 Camera Adaptor

Features

•Camera Adaptor for use with the CCU-D50/D50P Camera Control Unit. •Dockable to Sony DXC cameras that employ the 76-pin digital connector •Interfaces with 26-pin equipped Sony portable VTRs •Interfaces with the BKP-L551 Battery Adaptor with the appropriate service part.(*)

(*)Please contact your nearest Sony office.

Applicable Models

DXC-D55PH 3-chip CCD Portable Colour

Camera

DXC-D55PK 3-chip CCD Portable Colour

Camera

DXC-D55PL 3-chip CCD Portable Colour

Camera

DXC-D55WSPL 3-chip CCD Portable Colour

Camera

DXC-D55WSPH 3-chip CCD Portable Colour

Camera

Supplied Accessories

Operation manual (1)

Optional Accessories

CCZ-A Cables 26-pin/26-pin Cable

Specifications

General

Power requirements:

DC 12 V

Power consumption:

Approx. 3.8 W

Operating temperature:

-10°C to 45°C (14°F to 113°F)

Storage temperature:

-20°C to 55°C (-4°F to 131°F)

Dimensions:

113 (W) \times 183 (H) \times 168 (D) mm

(7 1/4 × 4 1/2 × 6 5/8 inches)

Mass:

1.1 kg (2 lb 7 oz)

Input/Output connectors

Camera interface:

Pro 76-pin DIGITAL (1)

CCU/VTR/CMA:

Sony Z-type 26-pin (1)

SDI output:

BNC (1), 270 Mb/s, 0.8 Vp-p, 75 Ω

Genlock/Prompter output:

BNC (1), 1.0 Vp-p, 75 Ω

Earphone

Mini jack

Intercom:

Mini intercom jack

DC input:

XLR 4-pin (1), 10.5 to 17.0 V



CA-TX50P Camera Adaptor

The CA-TX50P is a triax camera adaptor for use with the DXC-D55P series portable video cameras for connection with the CCU-TX50P Triax Camera Control Unit.

Applicable Models

CCU-TX50P Camera Control Unit DXC-D55PH 3-chip CCD Portable Colour Camera DXC-D55PK 3-chip CCD Portable Colour Camera

DXC-D55PL 3-chip CCD Portable Colour

DXC-D55WSPL 3-chip CCD Portable Colour

DXC-D55WSPH 3-chip CCD Portable Colour

Supplied Accessories

Operation manual (1)

Optional Accessories

AC-DN10 AC Adaptor/Charger WRR-862B UHF Synthesised Dual Diversity Tuner (AU) DXF-51 5-inch Monochrome Viewfinder

Specifications

Power requirements: DC 12 V (DC 180 V when supplied via the CCU connector) Power consumption: CA (Internal): 7.3 W Max. 58 W (DC 12 V input) Max. 67 W (DC 180 V input) Operating temperature: -10 °C to 45 °C (14 °F to 113 °F)

Storage temperature:

-20 °C to 60 °C (-4 °F to 140 °F)

Mass:

Approx. 2.5 kg (5 lb 5 oz) Dimensions (W x H x D): 206 x 212 x 131 mm (8 1/8 x 8 3/8 x 5 1/4 inches)

Signal inputs/outputs

CCU:

Triax (Fischer type)

CAMERA:

Pro 76-pin Digital

PROMPTER:

BNC type, 1.0 Vp-p, 75 Ω

RETURN:

BNC type, 1.0 Vp-p, 75 Ω

INTERCOM/PROGRAM:

XLR 5-pin (for Headset)

Input level: -60 dBs (dynamic)

Output level: -∞ to +12 dBs

AUDIO IN (CH-1/2):

XLR 3-pin (2), 600 Ω , balanced

Input level: Mic in: -60 dB Line in: -20 dB



DC IN: XLR 4-pin, 10.5 V to 17 V DC OUT: 4-pin, 10.5 V to 17 V, Max 1.5 A **EARPHONE** Mini jack

CA-WR855 Camera Adaptor

Features

•Allows a WRR-855B to be mounted on Sony DSR-450WSP/400P DVCAM camcorders •Direct audio/power connection interfaces

Applicable Models

WRR-855B UHF Synthesised Diversity Tuner (6668U)



CAC-12 Camera Microphone Holder

Features

- •Allows microphone direction to be adjusted
- •For attaching the ECM-647/678 or the C-74 condensor microphone to cameras and camcorders

Applicable Models

DSR-250P/1 DVCAM Camcorder
DSR-400PK DVCAM Camcorder
DSR-400PL DVCAM Camcorder
DSR-450WSPL DVCAM Camcorder
DXC-D55PH 3-chip CCD Portable Colour Camera
DXC-D55PK 3-chip CCD Portable Colour Camera
DXC-D55WSPL 3-chip CCD Portable Colour Camera
DXC-D55WSPL 3-chip CCD Portable Colour Camera



CAC-4 Chest Pad

Features

•Provides more stable camera operation •Attachable to the VCT-U14/C tripod adaptors directly

Specifications

Mass:

Approx. 185 g (7 oz)



CCU-590P Portable Camera Control Unit

Features

•Wideband transmission (10 MHz for Y and 14.5 MHz for R-Y/B-Y) •Long-distance transmission - up to 1400 m via a 14.5 mm dia. cable •Three SDI or analogue composite outputs •One component output (Y/R-Y/B-Y or G/R/B) •Four inputs for return video (RET-1/2: analogue composite, RET-3/4: SDI) •Built-in Ethernet interface (100Base-T) for future use •RM-B750 Remote Control Unit attachable on the front panel •Teleprompter support Support for two-channel intercom systems (four-wire/ RTS/Clearcom) •Two-channel program audio •Two-channel microphone system (two XLR connectors)



Applicable Models

BVP-E30P 3-chip CCD Portable Colour BVP-E30WSP 3-chip CCD Portable Colour Camera

Supplied Accessories

AC power cord AC power plug holder 4-pin connector Number plate Operation manual

Optional Accessories

CA-590P Camera Adaptor CCA-5 Cables 8-pin/8-pin Remote Control RMM-301 Rack Mounting Bracket RM-B750 Remote Control Unit

Specifications

General

Power requirements AC 100 to 240 V, 50/60 Hz, maximum 1.8 A Operating temperature -10 to +40 °C (+14 to +104 °F) Dimensions (W x H x D) 200 x 124 x 365 mm (7 % x 5 x 14 % inches) Mass Approx. 5.5 kg (12 lb 2 oz) Signal inputs Reference

BNC (loop-through), VBS/BS, 1.0 Vp-p, 75Ω

Return (1, 2) (1)

BNC(loop-through), VBS, 1.0 Vp-p, 75 Ω SDI return (3, 4)

BNC, SDI/VBS selectable VBS: 1.0 Vp-p, 75 Ω, SDI: SMPTE 259M

Prompter (*1)

BNC (loop-through), VBS, 1.0 Vp-p, 75 Ω

Signal outputs

VBS/SDI BNC (x3), VBS/SDI selectable VBS: 1.0 Vp-p, 75 Ω, SDI: SMPTE 259M Analogue component BNC (x3 for 1 set), Y/R-Y/B-Y or G/R/B switchable Y: 1.0 Vp-p, 75 Ω, R-Y/B-Y: 525 m Vp-p, 75 Ω , R/G/B: 700 mVp-p, 75 Ω PIX BNC, 1.0 Vp-p, 75 Ω BNC, 1.0 Vp-p, 75 Ω , 700 mVp-p, 75 Ω

WF mode

4-pin

Audio

Camera

XLR-3-pin (x2), 0 dBu/-20 dBu, balanced

BNC, 0.3 Vp-p, 75 Ω

Camera input/output signals

Triax Coax BNC. 75 Ω Remote

8-pin Ethernet

IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX Intercom/tally/program

D-sub 25-pin 4W/RTS

Tally: DC 24 V, TTL level or contact

selectable Microphone remote D-sub 15-pin Intercom (front)

XLR-5-pin

CCU-790P Portable Camera Control Unit

Features

•Wideband transmission (10 MHz for Y and 4.5 MHz for R-Y/B-Y) •Long-distance transmission - up to 2000 m via a 4.5 mm dia. cable •Three SDI or analogue composite outputs •Up to three additional SDI outputs

- •One component output (Y/R-Y/B-Y or G/R/B)
- •Four inputs for return video (RET-1/2: analogue composite, RET-3/4: SDI) •Built-in Ethernet interface (100Base-T) for future use •Teleprompter support
- Support for two-channel intercom systems (four-wire/ RTS/Clearcom) •Two-channel program audio
- •Two-channel microphone system (two XLR connectors)



Applicable Models

BVP-E30P 3-chip CCD Portable Colour Camera BVP-E30WSP 3-chip CCD Portable Colour

Supplied Accessories

AC power cord AC power plug holder 4-pin connector Number plate Operation manual

Optional Accessories

CA-590P Camera Adaptor CCA-5 Cables 8-pin/8-pin Remote Control Cable

Specifications

General

Power requirements AC 110 to 120 V/220 to 240 V, 50/60 Hz Operating temperature 0 to +45 °C (+32 to +113 °F) Dimensions (W x H x D) 424 x 133 x 394 mm (16 3/4 x 5 1/4 x 15 5/8 inches) Mass Approx. 12 kg (26 lb 7 oz)

Signal inputs Reference BNC (loop-through), VBS/BS, 1.0 Vp-p, 75 Ω Return (1, 2) (*1) BNC(loop-through), VBS, 1.0 Vp-p, 75 Ω SDI return (3, 4) BNC, SDI/VBS selectable VBS: 1.0 Vp-p, 75 Ω SDI: SMPTE 259M Prompter (*1)

BNC (loop-through), VBS, 1.0 Vp-p, 75 Ω

Signal outputs

VBS/SDI BNC (x3), VBS/SDI selectable VBS: 1.0 Vp-p, 75 Ω SDI: SMPTE 259M BNC (x3) (*2)

Analogue component BNC (x3 for 1 set), Y/R-Y/B-Y or G/R/B switchable Y: 1.0 Vp-p, 75 Ω, R-Y/B-Y: 525 mVp-p, 75 Ω, R/G/B: 700 mVp-p, 75 Ω PIX

BNC, 1.0 Vp-p, 75 Ω

BNC, 1.0 Vp-p, 75 Ω , 700 mVp-p, 75 Ω WF mode

4-pin Audio

XLR-3-pin (x2), 0 dBu/-20 dBu, balanced Sync

BNC, 0.3 Vp-p, 75 Ω

Camera input/output signals Camera

Coax BNC. 75 Ω Remote 8-pin Ethernet

Triax

IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX Intercome/tally/program

D-sub 25-pin

4W/RTS

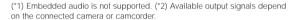
Tally: DC 24 V, TTL level or contact selectable Microphone remote D-sub 15-pin

Intercom (front) XLR-5-pin

CCU-D50P Camera Control Unit

Features

•Interfaces with Sony DXC-D55P Series digital cameras via its associated CA-D50 Camera Adaptor. •The output of the CA-D50 Camera Adaptor is transferred to the CCU-D50P Camera Control Unit as a component digital SDI(*1) signal via a Sony CCZ-A 26-pin cable up to 75 m long. •The distance between the CA-D50 Camera Adaptor and CCU-D50P Camera Control Unit can be extended to a maximum 200 m by providing a separate low loss coaxial video cable to carry the SDI signal between the two units. • Outputs analogue composite and one of the following: component digital SDI, analogue component (Y/R-Y/B-Y or RGB), or S-video(*2). • Flexible intercom connectivity allows the interfacing of 2-wire or 4-wire systems. •Green tally indication included for use in mid to large-scale camera operations. •The RCP-D50 can be connected to the CCU-D50P.







Applicable Models

DXC-D55PH 3-chip CCD Portable Colour Camera

DXC-D55PK 3-chip CCD Portable Colour Camera

DXC-D55PL 3-chip CCD Portable Colour Camera

DXC-D55WSPL 3-chip CCD Portable Colour

DXC-D55WSPH 3-chip CCD Portable Colour Camera

Supplied Accessories

AC power cord (1)
Rack mount adaptor (2)
Rack mount screw (4)
Tally indication segment (1)
Operation manual (1)

Optional Accessories

RCP-D50 Remote Control Panel RCP-D51 Remote Control Panel CCZ-A Cables 26-pin/26-pin Cable

Specifications General

Power requirements:
AC 200/240 V, 50/60 Hz
Power consumption:
Approx. 0.8 A
Operating temperature:
5°C to 40°C (41°F to 104°F)
Storage temperature:
-20°C to 55°C (-4°F to 131°F)
Dimensions:
424 (W) χ 88 (H) χ 283 (D) mm
(16 3/4 χ 3 1/2 χ 11 1/4 inches)
Mass:

6.3 kg (13 lb 14 oz)

Input/Output connectors

VBS output: BNC (2) 1.0 Vp-p, 75 Ω R/G/B output: BNC (1) 0.7 Vp-p, 75 Ω Y/R-Y/B-Y output: BNC (1), Y: 1.0 Vp-p, 75 Ω , R-Y/B-Y: 0.525 Vp-p, 75 Ω Y/C output: BNC (1), Y: 1.0 Vp-p, 75 Ω , C: 0.3 Vp-p, 75 Ω

SYNC output:

BNC (1), 0.3 Vp-p, 75 Ω

SDI output:

BNC (2), 270 Mb/s, 0.8 Vp-p, 75 Ω

S-Video output:

DIN 4-pin (1), Y: 1.0 Vp-p, 75 Ω, C: 0.3

Vp-p, 75 Ω

Monitor output:

BNC (1) VBS:1.0Vp-p, 75 Ω

Mic output:

XLR 3-pin (1), 600 Ω

Genlock input:

BNC (1), loop-through, VBS or BBS, 1.0

Vp-p, 75Ω

SDI input:

BNC (1), 270 Mb/s, 0.8 Vp-p, 75 Ω

Return Video input:

BNC (1), loop-through, 1.0 Vp-p, 75 Ω

Prompter Video input:

BNC (1), loop-through, 1.0 Vp-p, 75 Ω

Camera:

Sony Z-type 26-pin (1)

Intercom/Tally:

D-sub 15-pin, 4W/2W selectable, R/G Tally,

contact

Remote: 10-pin (1)

Control functions

Iris (auto/manual), White Balance (auto/manual/preset).

Black balance (auto/manual/preset), Gain select (low/mid/high),

R/B White, R/B Black, Master Black, Sub-carrier Phase, Horizontal Phase, Output Mode (colour bar/camera), Knee Point (auto/manual), Detail Level, Master Gamma, Tally/Intercom, Shutter

Speed, Clear scan, ATW

CCU-TX50P Camera Control Unit

Features

•Compact design - half rack width and 3U height •High quality data transmission . Long distance transmission up to 1500 metres via ø14.5 mm cable •In addition to the component/RGB switchable output, three outputs switchable between composite video and SDI are provided •Component video output (selectable from Y/R-Y/B-Y and R/G/B) •Three return video inputs (One input is shared with prompter input) •Colour teleprompter compatible •Red/Green tally indication •Support for major intercom systems (Four-wire/RTS/Clear-com) • Program audio input •Two-channel microphone outputs (two XLR connectors)





Applicable Models

DXC-D55PH 3-chip CCD Portable Colour Camera

DXC-D55PK 3-chip CCD Portable Colour

DXC-D55PL 3-chip CCD Portable Colour

DXC-D55WSPL 3-chip CCD Portable Colour

DXC-D55WSPH 3-chip CCD Portable Colour Camera

CA-TX50P Camera Adaptor

Supplied Accessories

AC power cord (1) AC power plug holder (1) Plug holder for AC power cord (1) Rack mount adaptor (2) Rack mount screw (4) Number plate (1) Operation manual (1)

Optional Accessories

CA-TX50P Camera Adaptor RCP-D50 Remote Control Panel (Joystick Type) RCP-D51 Remote Control Panel (Dial Control

RMM-301 Rack Mounting Bracket

Specifications

Power requirements: AC 100 to 240 V, 50/60 Hz Power consumption: 130 VA (measured at maximum load at camera side 12 V, 4.8 A, cable length 300 m) Peak inrush current (1) Power ON, current probe method: 50 A (240 V)

(2) Hot switching inrush current, measured in accordance with European standard

DN55103-1: 10 A (230 W)

Cable length:

Max. 750 m (8.5 mm dia.)

Operating temperature: 5 °C to 40 °C (41 °F to 104 °F) Storage temperature: -20 °C to 55 °C (-4 °F to 131 °F) Mass:

Approx. 5.5 kg (12 lb 2 oz) Dimensions (W x H x D):

200 x 124 x 365 mm (8 x 5 x 13 7/8 inches) Signal inputs

REFERENCE: BNC type, loop-through, VBS/BS, 1.0 Vp-p, 75 Ω

RETURN VIDEO 1, 2, 3 (*1): BNC type, loop-through, 1.0 Vp-p, 75 Ω

PROMPTER VIDEO (*1): BNC type, loop-through, 1.0 Vp-p, 75 Ω

Signal outputs

VBS 1, 2, 3 (*2): BNC type, 1.0 Vp-p, 75 Ω SDI 1, 2, 3 (*2): BNC type, 270 Mb/s,

0.8 Vp-p, 75 Ω

Y/R-Y/B-Y (*3): BNC type, Y: 1.0 Vp-p, 75 Ω,

R-Y/B-Y: 525 mVp-p, 75 Ω

R/G/B (*3): BNC type, 0.7 Vp-p, 75 Ω

SYNC: BNC type, 0.3 Vp-p, 75 Ω

PIX: BNC type, VBS, 1.0 Vp-p, 75 Ω

WF: BNC type, 700 mVp-p, 75 Ω

Encoded output: 1.0 Vp-p, 75 Ω

WF MODE: 4-pin

AUDIO: XLR 3-pin, 0 dBu/-20 dBu,

balanced, 2 channels

Camera control inputs/outputs

CAMERA: Triax (Fischer type)

COAX: BNC type, 75 Ω

REMOTE: 10-pin, multi connector

INTERCOM/TALLY/PGM: D-sub 25-pin, 4W/RTS/Clear-com selectable

TALLY: DC 24 V, TTL level or contact

selectable

MIC REMOTE: D-sub 15-pin

INCOM (on the front panel): XLR 5-pin

- (*1) The same connector is shared for return-3 and
- (*2) The same connector is shared for composite and
- (*3) The same connector is shared for component and

CMA-D2 Camera Adaptor

Camera adaptor for DXC-990/390

Features

- •Supplies DC power with a CCDC cable to cameras
- •Transmits DC power and video/sync signals between the camera and the adaptor with a CCMC 12-pin cable
- •Maximum cable length: 100 m with CCDC-100A cable/ 25 m with CCMC-12P25 cable •19-inch EIA standard rack mountable





Applicable Models

DXC-390 3-CCD Colour Video Camera DXC-990 3-CCD Colour Video Camera

Supplied Accessories

AC power cord (1) Operation manual (1)

Specifications

Connectors:

CAMERA (12-pin MULTI)

CAMERA (4-pin DIN)

VIDEO OUT (BNC)

S VIDEO OUT (Mini DIN 4-pin)

GEN-LOCK IN (BNC)

DC out:
13 V, 1.3 A
Power requirements:
AC 120 V, 50/60 Hz
Power consumption:
23 W
Dimensions:
210 (W) × 50 (H) × 200 (D) mm
(8 3/8 × 2 × 7 7/8 inches)
Mass:

1.1 kg (2 lb 7 oz)

CMA-D2MDCE Camera Adaptor

Camera adaptor for DXC-990P/390P

Features

- ·Supplies DC power with a CCDC cable to cameras
- •Transmits DC power and video/sync signals between the camera and the adaptor with a CCMC 12-pin cable
- •Maximum cable length: 100 m with CCDC-100A cable/ 25 m with CCMC-12P25 cable •19-inch EIA standard rack mountable •Complies with medical safety standard





Applicable Models

DXC-990P 3-CCD Colour Video Camera

Supplied Accessories

AC power cord (1) Operation manual (1)

Specifications

Connectors:

CAMERA (12-pin MULTI)
CAMERA (4-pin DIN)
VIDEO OUT (BNC)
S VIDEO OUT (Mini DIN 4-pin)
GEN-LOCK IN (BNC)

DC out:

13 V, 1.3 A

Power requirements:

AC 100 to 240 V, 50/60 Hz

Power consumption:

24.5 W

Dimensions:

210 (W) \times 50 (H) \times 200 (D) mm (8 3/8 \times 2 \times 7 7/8 inches)

Mass:

1.1 kg (2 lb 7 oz)

CMA-D3CE Camera Adaptor

Features

•Supplies DC power and transmits video/sync signal between the adaptor and the DXC-390P with CCZ-A cable and CCMC-3MZ cable •Connects with optional RM-C950/8 remote control unit •AC IN/DC IN

Applicable Models

DXC-390P 3-CCD Colour Video Camera DXC-990P 3-CCD Colour Video Camera

Supplied Accessories

Operation manual (1) AC cable (1)

Specifications

Connectors
CAMERA (26-pin MULTI)
VIDEO OUT (BNC)
SYNC IN / OUT (BNC)
TRIG INPUT (BNC)
W. E OUTPUT (BNC)
REMOTE (mini DIN 8 pin)
Power requirements:
AC 100-240 V or

DC (10.5 to 15.0 V)

Dimensions: 210 (W) x 44 (H) x 210 (D) mm





CNU-700 Camera Command Network Unit

Features

•High-speed data transmission rates — more than 500 kb/s between CNU and MSU/RCP/CCU and 35 kb/s between camera head and CCU •Expandable system configuration — up to 12 cameras with one CNU-700 and one BKP-7930 installed •Character display function in monochrome •Bypass facility to maintain communication between the CCUs and RCPs in the event of a CNU malfunction or power loss



Applicable Models

BVP-E30P 3-chip CCD Portable Colour Camera BVP-E30WSP 3-chip CCD Portable Colour Camera HDC-1000 Studio Camera

HDC-1500 Portable Camera HDC-1550 Multi-format HD Camera HDC-3300 Multi-format HD Camera

Supplied Accessories

AC power cord (1)
Plug holder for the AC power cord (1)
Operation manual (1)
Maintenance manual (1)

Optional Boards

BKP-7930 Expansion Board BKP-7933 S-Bus Interface Board

Specifications General

Power requirements:

AC 100 to 120 V, 50/60 Hz (For USA and Canada)

AC 220 to 240 V, 50/60 Hz (For other countries)

Power consumption: 4.0 VA max.

Operating temperature:

0 to +45 °C (+32 to +113 °F)

Mass:

9.5 kg (20 lb 15 oz)

Dimensions:

424(W) x 132(H) x 400(D) mm (16 3/4 x 5 1/4 x 15 3/4 inches)

Input/output connectors

CCU 1 through 6:

8-pin multiconnector (1 each)

RCP 1 through 6:

8-pin multiconnector (1 each)

MSU:

8-pin multiconnector (1)

VCS

8-pin multiconnector (1)

AUX 1 and 2:

8-pin multiconnector (1 each)

Character:

BNC type (2) video: 0.7 Vp-p, sync: 0.3

Vp-p

Reference:

BNC type (2) 0.3 Vp-p with loop-through

output

RS-232C:

D-sub 9-pin (3)

AC input:

3-pin (1)





DXF-20W 2.0-inch Monochrome Viewfinder

Applicable Models

•Supplied with the PDW-F350 XDCAM HD camcorder as standard •Also available as an option for the PDW-F330 XDCAM HD camcorder



DXF-801 1.5-inch Monochrome Viewfinder

Features

•1.5-inch monochrome viewfinder •Supplied with the DXC-D55L/D55PL/D55WSL/D55WSPL portable camera as standard •Also available as an option for the DXC-D55H/D55PH/D55WSH/D55WSPH portable camera



Applicable Models

DXC-D55PH 3-chip CCD Portable Color Camera DXC-D55H 3-chip CCD Portable Color Camera DXC-D55WSH 3-chip CCD Portable Color Camera

PDW-F350L XDCAM HD Camcorder (without lens)

Supplied Accessories

Operating instructions (1)

Specifications

CRT

1.5-inch monochrome, 4:3/16:9 switchable Indicators

REC TALLY (2), TAKE TALLY, BATT, SHUTTER, GAIN UP

Horizontal resolution

600 TV lines

Power requirements DC 12 V Power consumption

Z.

Mass

620 g (1 lb 9 oz) Dimensions (W x H x D)

241 x 91 x 203 mm (9 1/2 x 3 5/8 x 8 inches)

DXF-51 5-inch Monochrome Viewfinder

Features

•High horizontal resolution of 650 TV lines •Stable video image •Bright and clear colour image •Under Scanning capability •Can operate either on EIA and CCIR signals systems with automatic selection •16:9/4:3 Automatic Aspect Ratio Selection •The viewfinder aspect ratio of the DXF-51 is automatically switched between 16:9 and 4:3 •Two red REC tally lamps •Green Tally Lamp which can be used as a second tally lamp for CCU operations •20-pin connector •DIN 8-pin connector •+/- 40 degrees of tilting is possible •+/- 90 degrees of panning is possible •Rugged and compact body



Applicable Models

DSR-400PK DVCAM Camcorder

DSR-400PL DVCAM Camcorder DSR-450WSPL DVCAM Camcorder

DXC-D55PH 3-chip CCD Portable Colour

Camera

DXC-D55PK 3-chip CCD Portable Colour

Calliela

DXC-D55PL 3-chip CCD Portable Colour

Camera

DXC-D55WSPL 3-chip CCD Portable Colour

Camera

DXC-D55WSPH 3-chip CCD Portable Colour

Camera

PDW-F350 XDCAM HD Camcorder

PDW-F330 XDCAM HD Camcorder

Supplied Accessories

Hood (1)
Operation manual (1)

20-pin Cable (1)

Specifications

Picture tube:

5-inch monochrome, 70° deflection

Scanning system:

2:1 interlace, 625/50 or 525/59.94 switchable

Horizontal resolution:

650 TV lines (centre)

Camera connector:

20-pin or DIN 8-pin connector

Power requirements:

DC 12 V +5.0/-1.5 V (supplied from a camera)

Power consumption:

11 W

Operating temperature:

0°C to 40°C (32°F to 104°F)

Mass

2.4 kg (5 lb 5 oz) with stand and hood Dimensions:

202 (H) x 199 (W) x 217 (D) mm

(8 x 7 7/8 x 8 5/8 inches)

including projecting parts and controls 202 (H) x 199 (W) x 289 (D) mm (8 x 7 7/8 x 11 1/2 inches)

with stand and hood

HDVF-C35W Multi-format HD Color LCD Viewfinder

Features

•For use with the HDC1500/1550/F950, F23, and HDW-F900R/790/790P/730S •3.5-inch type large LCD screen •Accommodates multiple frame rates •A detachable eye-piece design allows the user to directly view the LCD •High-performance loupe delivers pictures with low distortion •The 3x magnification function simplifies focus operation, especially when prime lenses are used •Gray scale signals can be generated, allowing camera operators to easily adjust exposure to the appropriate level •Color or monochrome display switchable •Two assignable switches for switching to

preset adjustment settings and for assigning frequently



Applicable Models

used functions

F23 Digital Cinematography Camera HDC-3300 HD Super Motion Color Camera HDC-1500 Multi-format HD Camera HDC-1550 Multi-format HD Camera HDW-730S HDCAM Camcorder HDW-790P HDCAM Camcorder HDW-F900R HDCAM Camcorder HDW-790 HDCAM Camcorder

Supplied Accessories

Operation manual (1)

Specifications

General

Power supply

10.5 to 17.0 V DC (supplied by the camera)

Power consumption

6.3 W

Operating temperature

-20 °C to +45 °C (-4 °F to +113 °F)

Storage temperature

-20 °C to +60 °C (-4 °F to +140 °F)

Mass

850 g (1 lb 14 oz)

LCD

LCD type

3.5-inch color TFT screen

Image display area dimensions

76.8 x 43.2 mm (3 1/8 x 1 3/4 inches)

(H/V, 16:9 aspect ratio)

Performance

Brightness

250 cd/m²

Resolution

500 or more lines

Supported formats

1080/23.98PsF, 24PsF, 25PsF, 29.97PsF, 30PsF

1080/50i, 59.94i, 60i

Color temperature

6500K (with viewfinder barrel and eyepiece

attached)

Indicators

Green tally, TALLY/REC, BATT, !, MAG,

spare, SAVE

Input signals

Pb, Pr: 0.7 Vp-p, asynchronous, 75 Ω terminated Y: 1.0 Vp-p, synchrohous, 75 Ω terminated

Connector

Camera connector

Round type 20-pin

HDVF-700A 7-inch Type HD B/W CRT Viewfinder

Features

•High resolution B/W CRT viewfinder specially designed for use with the HDC-1000/900/910 — for direct camera installation •Compact size with a reduced height, lightweight and energy saving design •Extremely high center resolution of 1000 TV lines and wide peaking range contribute to a very crisp image and accurate focusing •Accommodates multiple frame rates •Large, very easy to see tally lamps •Underscan display •16:9/4:3 switchable •Picture in picture for return video monitoring and HD Return video signal can be displayed Continuously variable peaking circuit provides a sharp image and easy focusing •Drip-proof design is able to

withstand light rain and well suited to outdoor use



Applicable Models

HDC-1000 Multi-format HD Camera HDC-1550 Multi-format HD Camera HDC-3300 HD Super Motion Color Camera HDC-1500 Multi-format HD Camera

Supplied Accessories

Studio monitor hood (1) Fuse (1) Operation manual (1) Number plate (1)

Optional Accessories

VFH-770 7-inch Type Viewfinder Sports Hood

Specifications

General

Power supply:

10.5 to 17.0 V DC (supplied by the camera)

Power consumption:

33 W/

Operating temperature:

0 °C to 40 °C (32 °F to 104 °F)

5.0 kg (11 lb) not including hood

7-type monochrome, 90 ° deflection

Dimensions:

160 x 131mm (6 3/8 x 5 1/4 inches)

Picture size:

120 x 90 mm (4 3/4 x 3 5/8 inches)

(4:3 aspect ratio

Deflection and high voltage

Brightness: 500 cd/m2

Resolution:

800 lines at center

600 lines at edges

Geometric distortion:

2.0% or less

EHT voltage regulation:

within \pm 2.0%

EHT voltage:

12.5 kV (standard)

Input voltages and signal characteristics

Supported formats

Effective scanning lines/Format/Horizontal scanning frequency/Vertical scanning frequency

1080/23.98PsF/26.97 kHz/47.95 Hz 1080/24PsF/27 kHz/48 Hz

1080/25PsF/28.13 kHz/50 Hz

1080/29.97PsF/33.72 kHz/59.94 Hz

1080/30PsF/33.75 kHz/60 Hz

1080/50i/28 13 kHz/50 Hz

1080/59.94i/33.72 kHz/59.94 Hz

1080/60i/33.75 kHz/60 Hz

1035/59 94i/33 72 kHz/59 94 Hz

1035/60i/33.75 kHz/60 Hz

Video input:

1.0 Vp-p ± 6dB, 75 ø terminated

Video input:

1.0 Vp-p ± 6dB (SMPTE 240M), 75 ø terminated

DC restoration:

Back porch type

Back porch level: within 2% of peak

(The fluctuation in black level against 10% to

90% fluctuation in APL)

Frequency response:

0.1 to 23 MHz (±2 dB)

23 to 27 MHz (± 3dB)

Peaking:

0 to 18 dB (17 MHz)

Synchronization:

Line pull range: Horizontal: ±500 Hz or

more, Vertical: -10 Hz or more

Line hold range: ±500 Hz or more

HDVF-C730W Multi-format HD Color LCD Viewfinder

Features

- •For use with the HDC1000/HDC1500/HDC1550/ HDC3300/HDC-F950 •The high quality 6.3-inch type TFT color LCD panel provides a high resolution of more than 500 TV lines •Accommodates multiple frame rates
- •The extremely compact design allows much greater panning and tilting angles than CRT-base viewfinders
- Very low power consumption



Applicable Models

HDC-1000 Multi-format HD Camera HDC-1550 Multi-format HD Camera HDC-3300 HD Super Motion Color Camera HDC-1500 Multi-format HD Camera

Supplied Accessories

Monitor hood (1) Number plate (1) Operation manual (1) V-shaped shoe attachment (1) Hexagonal key (1) Hexagonal socket head screws (4) Connecting cable (1)

Optional Accessories

VFH-770 7-inch Type Viewfinder Sports Hood

Specifications

General

Power supply:

DC 10.5 to 17.0 V (supplied by the camera)

Power consumption:

Operating temperature:

0 °C to 45 °C (32 °F to 113 °F)

Storage temperature:

- 20 °C to 60 °C (- 4 °F to 140 °F)

2.2 kg (4 lb 13 oz) not including hood

I CD

type:

6.3-inch type color TFT

Image display area dimensions:

129 x 73 mm (5 x 2 7/8 inches)

(16:9 aspect ratio)

Performance

Brightness: 230 cd/m²

Resolution:

500 or more lines

Supported formats:

Effective scanning lines/Format/Horizontal

scanning frequency/Vertical scanning frequency

1080/23.98PsF/26.97 kHz/47.95 Hz

1080/24PsF/27 kHz/48 Hz

1080/25PsF/28.13 kHz/50 Hz

1080/29.97PsF/33.72 kHz/59.94 Hz

1080/30PsF/33.75 kHz/60 Hz

1080/50i/28.13 kHz/50 Hz

1080/59.94i/33.72 kHz/59.94 Hz

1080/60i/33.75 kHz/60 Hz Color temperature:

Input signals:

Pb, Pr: 0.7 Vp-p, asynchronous, 75 Ω terminated

Y: 1.0 Vp-p, synchronous, 75 Ω terminated

Connectors

CAMERA connector:

Round type 20-pin

HDVF-C950W Multi-format HD Color LCD Viewfinder

Features

•For use with the HDC1500 series cameras •High quality 9-inch type TFT color LCD panel •Accommodates multiple frame rates •The 2x magnification function simplifies focus operation, especially when prime lenses are used •Color or monochrome display switchable

Applicable Models

F23 Digital Cinematography Camera HDC-1500 Multi-format HD Camera HDC-3300 HD Super Motion Color Camera HDC-1550 Multi-format HD Camera

Supplied Accessories

Number plate (1) Operation manual (1) V-shaped shoe attachment (1) Hexagonal key (1) Hexagonal socket head screws (4) Connecting cable (1)

Optional Accessories

VFH-990 9-inch Type Viewfinder Sports Hood

Specifications

Power consumption:

General

Power supply: DC 10.5 to 17.0 V (supplied by the camera)

18 W

Operating temperature:

-20 °C to +45 °C (-4 °F to +113 °F)

Storage temperature:

- 20 °C to +60 °C (- 4 °F to +140 °F)

Mass:

2.7 kg (5 lb 15 oz) not including hood

LCD

LCD type

9-inch color TFT screen

Image display area dimensions:

197 x 111 mm (7 7/8 x 4 3/8 inches)

(H/V, 16:9 aspect ratio)

Indicator section dimensions:

197 x 7 mm (7 7/8 x 9/32 inches)

(H/V, at the lower of the screen)

Performance

Brightness 350 cd/m2 Resolution: 400 or more lines



Supported formats:

Effective scanning lines/Format/Horizontal scanning frequency/Vertical scanning frequency 1080/23.98PsF/26.97 kHz/47.95 Hz 1080/24PsF/27 kHz/48 Hz 1080/25PsF/28.13 kHz/50 Hz 1080/29.97PsF/33.72 kHz/59.94 Hz 1080/30PsF/33.75 kHz/60 Hz 1080/50i/28.13 kHz/50 Hz 1080/59.94i/33.72 kHz/59.94 Hz 1080/60i/33.75 kHz/60 Hz

Colour temperature

6500 K

Input signals:

Pb, Pr: 0.7 Vp-p, asynchronous, 75 Ω terminated Y: 1.0 Vp-p, synchronous, 75 Ω terminated

CAMERA connector: Round type 20-pin

HDVF-9900 9-inch Type HD Color CRT Viewfinder (White)

Features

•Adopts a 9-inch type HD CRT •For use with the HDC-1000 Series HD Studio Camera • Supports 1080/59.94i, 60i, 50i and 24PsF formats



Applicable Models

HDC-1000 Multi-format HD Camera HDC-3300 HD Super Motion Color Camera HDC-1500 Multi-format HD Camera HDC-1550 Multi-format HD Camera

Supplied Accessories

Studio monitor hood (1) Field monitor hood (1) Operation manual (1) Number plate (1)

Specifications

General

Power requirement:

DC 10.5 to 17.0 V (supplied from the camera)

Power Consumption: 50 W

Operating temperature:

-20 °C to +45 °C (-4 F to +113 °F)

7.9 kg (17 lb 7 oz) excluding hood Dimensions (W x H x D):

290 x 192 x 435 mm (11 1/2 x 7 5/8 x 17 1/4 inches)

Picture device

Type:

9-inch type CRT 0.25 mm Super Fine Pitch Trinitron

Screen diagonal

155.4 (H) x 87.4 (V) mm (6 1/8 x 3 1/2 inches)

Horizontal resolution: 340 TV lines (16:9)

Brightness: 250 cd/m2

Color temperature: 6500 K

Indication:

R Tally, G Tally, ! FAN ALARM

Deflection and high voltage

Geometric distortion: 2.0% or less EHT voltage regulation: within ±1.0% EHT voltage: 16 kV (standard)

Input voltages and signal characteristics

Supported formats:

1080/50i/28.13 kHz/50 Hz 1080/59.94i/33.72 kHz/59.94 Hz 1080/60i/33.75 kHz/60 Hz

Video input:

1.0 Vp-p \pm 6dB, 75 Ω terminated

1.0 Vp-p \pm 6dB (SMPTE 240M), 75 Ω terminated DC restoration:

Back porch type

Back porch level: within 2% of peak (The fluctuation in black level against 10% to 90% fluctuation in APL)

Frequency response:

0.1 to 25 MHz (±3 dB)

Peaking:

0 to 18 dB (15 MHz)

Synchronization:

Line pull range: Horizontal: ±500 Hz or more,

Vertical: -10 Hz or more Line hold range: ±500 Hz or more

Note: Also available in black (HDVF-9900/B)

HFBK-HD1 HD SDI Output Board

The HFBK-HD1 is an HD SDI Output Board for the HFU-X310 Optical Interface Unit which is used with the HDC-X310/X310K HD multi-purpose camera.

Applicable Models

HFU-X310 HD Optical Fibre Interface Unit HDC-X310 HD Multi-purpose Camera HDC-X310K HD Multi-purpose Camera BRC-H700 HD 3CCD Colour Video Camera



HFBK-SD1 SDI Output Board

The HFBK-SD1 is an SDI Output Board for the HFU-X310 Optical Interface Unit which is used with the HDC-X310/X310K HD multi-purpose camera.

Applicable Models

HFU-X310 HD Optical Fibre Interface Unit HDC-X310 HD Multi-purpose Camera HDC-X310K HD Multi-purpose Camera BRC-H700 HD 3CCD Colour Video Camera



HFBK-TS1 iLINK (HDV) Output Board

The HFBK-TS1 is an i.LINK (HDV) Output Board for the HFU-X310 Optical Interface Unit which is used with the HDC-X310/X310K HD multipurpose camera.

Applicable Models

HFU-X310 HD Optical Fibre Interface Unit HDC-X310 HD Multi-purpose Camera HDC-X310K HD Multi-purpose Camera BRC-H700 HD 3CCD Colour Video Camera



HFBK-XG1 XGA Output Board

The HFBK-XG1 is an XGA Output Board for the HFU-X310 Optical Interface Unit which is used with the HDC-X310/X310K HD multi-purpose camera.

Applicable Models

HFU-X310 HD Optical Fibre Interface Unit HDC-X310 HD Multi-purpose Camera BRC-H700 HD 3CCD Colour Video Camera HDC-X310K HD Multi-purpose Camera



HKCU-1001 SD Analogue Interface Unit

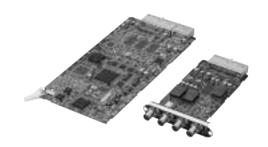
The HKCU-1001 is an interface expansion option board for the HDCU-1000/HDCU-1500. It provides two analogue NTSC or PAL VBS signal outputs, WFM output, and a monitor output.

Applicable Models

HDCU-1500 Camera Control Unit HDCU-1000 Camera Control Unit

Specifications

VBS output BNC type (2) Analogue composite monitor output BNC type: WF (1), PIX (1)

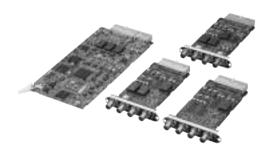


HKCU-1003 Multi Interface Unit

The HKCU-1003 is an interface expansion option board for the HDCU-1000/HDCU-1500. It consists of three types of interface board and provides: - Frame reference input and output to lock 2-3 pull-down sequence - Two analogueue NTSC or PAL VBS signal outputs - Analogue NTSC or PAL VBS and analogue component R/G/B or Y/R-Y/B-Y outputs

Applicable Models

HDCU-1500 Camera Control Unit HDCU-1000 Camera Control Unit

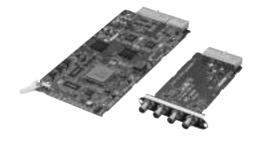


HKCU-1005 HD/SD Expansion Unit

The HKCU-1005 is an interface expansion option board for the HDCU-1000/HDCU-1500. It provides four HD-SDI or SD-SDI outputs.

Applicable Models

HDCU-1500 Camera Control Unit HDCU-1000 Camera Control Unit



LC-DS300SFT Soft Carrying Case

Features

•Direct pack with accessories attached: Battery pack, Microphone, Viewfinder and Zoom lens. • Easy to pack a variety of accessories such as Battery charger and other items.

Applicable Models

DSR-400PK DVCAM Camcorder DSR-400PL DVCAM Camcorder DSR-450WSPL DVCAM Camcorder PDW-F330 XDCAM HD Camcorder PDW-F350 XDCAM HD Camcorder

Specifications

Mass:

3.5 kg (7 lb 11 oz) Dimensions (w/h/d): 220 × 300 × 620 mm (without projection) (8 3/4 × 11 7/8 × 24 1/2 inches)



LC-H300 Hard Carrying Case

Applicable Models

DSR-450WSPL DVCAM Camcorder DSR-400PL DVCAM Camcorder DSR-400PK DVCAM Camcorder PDW-F330 XDCAM HD Camcorder PDW-F350 XDCAM HD Camcorder



LC-HB330 Hard Carrying Case

Applicable Models

DXC-D55 Series Portable Colour Camera



LCR-1 Camera Rain Cover

Features

•Transparent material used to operate camera and VTR switches with the LCR-1/1 on

Applicable Models

BVP-9500WS Super Motion Video Camera BVP-9500WSP Super Motion Video Camera DSR-400PK DVCAM Camcorder DSR-400PL DVCAM Camcorder

DSR-450WSPL DVCAM Camcorder

DXC-D55PH 3-chip CCD Portable Colour

DXC-D55PK 3-chip CCD Portable Colour

Camera
DXC-D55PL 3-chip CCD Portable Colour

Camera

DXC-D55WSPL 3-chip CCD Portable Colour

Camera

DXC-D55WSPH 3-chip CCD Portable Colour

Camera

PDW-510P XDCAM Camcorder

PDW-530P XDCAM Camcorder PDW-F330 XDCAM HD Camcorder PDW-F350 XDCAM HD Camcorder

Specifications

Mass:

260 g (9 oz)



LO-23 Flexible Cable Unit

Features

•Servo zooming and manual focusing for Fujinon Lens, such as VCL-916 BYA and VCL-714BXA

Specifications

Cable length:

1 m (3.3 ft)

Mass:

1.2 kg (2 lb 10 oz)



LO-26 Flexible Cable Unit

Features

•Servo zooming and manual focusing for Canon Lenses, such as VCL-918BY

Specifications

Cable length:

1 m (3.3 ft)

Nass:

1.1 kg (2 lb 7 oz)



MSU-900 Master Setup Unit

Features

•Central control of camera parameters for the entire camera system •Picture and waveform monitor switching Precise picture adjustment •Built-in 6.5-inch (*) type LCD display for clear viewing of adjustment parameters during operation •Memory Stick slot for storing/recalling files •Built-in Ethernet interface (100Base-T)

Applicable Models

HDCU-1000 Camera Control Unit
HDCU-1500 Camera Control Unit
HDC-1500 Multi-format HD Camera
HDC-1500 Multi-format HD Camera
HDC-1550 Multi-format HD Camera
HDC-3300 Multi-format HD Camera
DVW-970P Digital Betacam Camcorder
HDC-X300 HD Multi-purpose Camera
HDC-X300K HD Multi-purpose Camera
BVP-E30WSP 3-chip CCD Portable Colour
Camera
BVP-E30P 3-chip CCD Portable Colour Camera
HDC-X310 HD Multi-purpose Camera
HDC-X310K HD Multi-purpose Camera

Optional Accessories

CCA-5 Cables 8-pin/8-pin Remote Control Cable

Specifications

AC input 3-pin (1)

General Power requirements AC 100 to 240 V, 50/60 Hz Current consumption Operating temperature +5 to +40 °C (+41 to +104 °F) Maximum cable length 200 m (656 feet) Mass Approx. 4.5 kg (9 lb 14 oz) Dimensions (W x H x D) 482 x 67 x 222 mm (19 x 2 3/4 x 8 3/4 inches) Inputs/outputs Remote CCU/CNU: 8-pin (1) AUX: 8-pin (1) I/O port 50-pin (1) Ethernet 6-pin (1)



MSU-950 Master Setup Unit

Features

•Central control of camera parameters for the entire camera system •Picture and waveform monitor switching •Precise picture adjustment •Built-in 6.5-inch (•) type LCD display for clear viewing of adjustment parameters during operation •Memory Stick slot for storing/recalling files •Built-in Ethernet interface (100Base-T)

Applicable Models

HDCU-1000 Camera Control Unit HDCU-1500 Camera Control Unit HDC-1000 Multi-format HD Camera HDC-1500 Multi-format HD Camera HDC-1550 Multi-format HD Camera HDC-3300 Multi-format HD Camera DVW-970P Digital Betacam Camcorder HDC-X300 HD Multi-purpose Camera HDC-X300K HD Multi-purpose Camera BVP-E30WSP 3-chip CCD Portable Colour Camera BVP-E30P 3-chip CCD Portable Colour Camera HDC-X310 HD Multi-purpose Camera HDC-X310K HD Multi-purpose Camera

Optional Accessories

CCA-5 Cables 8-pin/8-pin Remote Control Cable

Specifications

Ethernet 6-pin (1) AC input 3-pin (1)

General Power requirements AC 100 to 240 V, 50/60 Hz Current consumption Operating temperature +5 to +40 °C (+41 to +104 °F) Maximum cable length 200 m (656 feet) Mass Approx. 3.7 kg (8 lb 2 oz) Dimensions (W x H x D) 204 x 354 x 67 mm (8 1/8 x 14 x 2 3/4 inches) Inputs/outputs Remote CCU/CNU: 8-pin (1) AUX: 8-pin (1) I/O port 50-pin (1)



RCP-700 Remote Control Panel (Joystick Type)

Features

·Controls Painting (black and white), Master Black and Iris Control menus for daily operation . Basically used as a sub control panel to support MSU-700A/750/A or RCP-740/741/730/731/720/721 in combination with MSU-700A/750/A •Up to six units of RCP-700/701 can be mounted on a 19-inch rack drawer

Applicable Models

BVP-E30P 3-chip CCD Portable Colour Camera BVP-E30WSP 3-chip CCD Portable Colour Camera

Supplied Accessories

Plug, 6-pin Male (1)

Specifications

Connectors

Remote:

CNU/CCU (8-pin)

Preview:

6-pin

General

Mass:

1.0 kg (2 lb 3 oz)

Dimensions:

68(W) x 221(H) x 127(D) mm (2 3/4 x 8 3/4 x 5 inches)



RCP-701 Remote Control Panel (Dial Control Type)

·Controls Painting (black and white), Master Black and Iris Control menus for daily operation •Basically used as a sub control panel to support MSU-700A/750 or RCP-740/741/730/731/720/721 in combination with MSU-700A/750 •Up to six units of RCP-700/701 can be mounted on a 19-inch rack drawer

Applicable Models

BVP-E30WSP 3-chip CCD Portable Colour Camera BVP-E30P 3-chip CCD Portable Colour Camera

Optional Accessories

CCA-5 Cables 8-pin/8-pin Remote Control Cable

Supplied Accessories

Plug, 6-pin Male

Specifications

Connectors

CNU/CCU (8-pin) Preview:

6-pin

General

Mass:

0.9 kg (2 lb)

Dimensions:

68(W) x 221(H) x 83(D) mm (2 3/4 x 8 3/4 x 3 3/8 inches)



RCP-750 Remote Control Panel (Joystick type)

Features

•Touch Control Colour LCD display for easy access to comprehensive Menu System •Small size with full paint control •Memory stick facility for storage of settings

Parallel control function with MSU-700A/750A

Applicable Models

BVP-E30P 3-chip CCD Portable Colour Camera BVP-E30WSP 3-chip CCD Portable Colour

Camera

HDC-1000 Studio Camera

HDC-1500 Portable Camera

HDC-1550 Multi-format HD Camera

HDC-3300 Multi-format HD Camera

HDC-X300 Multi-purpose HD Camera HDC-X300K Multi-purpose HD Camera

WLL-RX55 Wireless Camera Receiver

Optional Accessories

CCA-5 Cables 8-pin/8-pin Remote Control Cable

Specifications

General

Power requirements:

DC 10.5 to 35 V

Power consumption:

4 W max.

Maximum cable length:

200 m (656 feet) with CCU/HDCU connected

Operating temperature:

5°C to 40 °C (41°F to 104°F)

Mass:

1.5 kg (3 lb 5 oz)

Dimensions:

102 mm x 354 mm x 126. 5 mm

(4 1/8 x 14 x 5 inches)

Inputs/Outputs

Remote:

CCU/CNU: 8-pin x 1

AUX: 8-pin x 1

EXT I/O:

9-pin x 1



RCP-751 Remote Control Panel (Dial control type)

Features

•Touch Control Colour LCD display for easy access to comprehensive Menu System •Small size with full paint control •Memory stick facility for storage of settings

Parallel control function with MSU-700A/750A

Applicable Models

BVP-E30P 3-chip CCD Portable Colour Camera BVP-E30WSP 3-chip CCD Portable Colour

Camera

HDC-1000 Studio Camera

HDC-1500 Portable Camera

HDC-1550 Multi-format HD Camera HDC-3300 Multi-format HD Camera

HDC-X300 Multi-purpose HD Camera

HDC-X300 Multi-purpose HD Camera

HDC-X300K Multi-purpose HD Camera WLL-RX55 Wireless Camera Receiver

Optional Accessories

CCA-5 Cables 8-pin/8-pin Remote Control Cable

Specifications

General

Power requirements:

DC 10.5 to 35 V Power consumption:

4 M may

Maximum cable length:

200 m (656 feet) with CCU/HDCU connected

Operating temperature:

5°C to 40 °C (41°F to 104°F)

Mass

1.3 kg (2 lb 14 oz)

Dimensions:

102 mm x 354 mm x 86. 5 mm

(4 1/8 x 14 x 3 1/2 inches)

Inputs/Outputs

Remote:

CCU/CNU: 8-pin x 1

AUX : 8-pin x 1 EXT I/O:

:X1 I/C

9-pin x 1



RCP-920 Remote Control Panel (Joystick type)

 Optimized control arrangement for basic camera operation •Auto setup control •Scene file control •Slow shutter/ECS/shutter control . Parallel control function with MSU-900/950 is available •Ethernet control capability

•Four units fit in 19-inch rack

Applicable Models

HDCU-1500 Camera Control Unit HDCU-1000 Camera Control Unit HDC-X300 HD Multi-purpose Camera HDC-X310 HD Multi-purpose Camera WLL-RX55 Wireless Camera Receiver HDC-X310K HD Multi-purpose Camera HDC-X300K HD Multi-purpose Camera BVP-E30P 3-chip CCD Portable Color Camera BVP-E30 3-chip CCD Portable Color Camera BVP-E30WS 3-chip CCD Portable Color Camera BVP-E30WSP 3-chip CCD Portable Color

HDC1000 Multi-format HD Camera HDC1550 Multi-format HD Camera HDC1500 Multi-format HD Camera

Supplied Accessories

Operation manual (1)

Optional Accessories

CCA-5 Cables 8-pin/8-pin Remote Control Cable

Specifications

General

Power consumption:

4 W max

Maximum cable length:

200 m (656 feet) with CCU/HDCU connected

Operating temperature:

5°C to 40 °C (41°F to 104°F)

1.8 kg (3 lb 15 oz)

Dimensions:

102 mm x 310 mm x 125 mm (4 1/8 x 12 1/4 x 5 inches)

Inputs/outputs

Remote

8-pin RJ-45 connector x1

CCU/CNU

8-pin multiconnector, female x1

8-pin multiconnector, female x1

FXT I/O

10-pin, male x1



RCP-921 Remote Control Panel (Dial type)

 Optimized control arrangement for basic camera operation •Auto setup control •Scene file control

•Slow shutter/ECS/shutter control •Parallel control function with MSU-900/950 is available •Ethernet control capability • Four units fit in 19-inch rack

Applicable Models

HDCU-1000 Camera Control Unit HDCU-1500 Camera Control Unit HDC-X300 HD Multi-purpose Camera HDC-X310K HD Multi-purpose Camera HDC-X310 HD Multi-purpose Camera WLL-RX55 Wireless Camera Receiver HDC-X300K HD Multi-purpose Camera BVP-E30P 3-chip CCD Portable Color Camera BVP-E30WSP 3-chip CCD Portable Color BVP-E30 3-chip CCD Portable Color Camera

BVP-E30WS 3-chip CCD Portable Color Camera HDC1000 Multi-format HD Camera HDC1550 Multi-format HD Camera

HDC1500 Multi-format HD Camera

Optional Accessories

CCA-5 Cables 8-pin/8-pin Remote Control Cable

Supplied Accessories

Operation manual (1)

Specifications

General

Power requirements: DC 10.5 to 30 V Power consumption:

4 W max

Maximum cable length:

200 m (656 feet) with CCU/HDCU connected

Operating temperature:

5°C to 40 °C (41°F to 104°F)

Mass:

1.8 kg (3 lb 15 oz)

Dimensions:

102 mm x 310 mm x 84 mm

(4 1/8 x 12 1/4 x 3 3/8 inches)

Inputs/outputs

Remote

8-pin RJ-45 connector x1

CCU/CNU

8-pin multiconnector, female x1

8-pin multiconnector, female x1

FXT I/O

10-pin, male x1



RCP-D50 Remote Control Panel (Joystick Type)

Features

- •Covers the complete range of camera control functions
- •Provides Joystick operation •3.5-inch (*1) LCD screen with touch panel function •Allows incoming camera image to be monitored on LCD panel (*2) •Memory Stick system various scene files can be stored on/recalled from the Memory Stick media and loaded to a different RCP-D50/D51 or DXC-D55

(*1) Viewable area measured diagonally. (*2) When used with a CCU-TX7/TX7P camera control unit, please ask Sony representative.



DXC-D55PH 3-chip CCD Portable Colour Camera

DXC-D55PK 3-chip CCD Portable Colour

DXC-D55PL 3-chip CCD Portable Colour Camera

DXC-D55WSPL 3-chip CCD Portable Colour

DXC-D55WSPH 3-chip CCD Portable Colour Camera

Supplied Accessories

CCA-7-5 Connecting Cable (5 m) (1) Operation Manual (1) Screws and Washers (2) Number Plate (1)

Optional Accessories

CCA-7 Cables 10-pin/10-pin Cable

Specifications

Power requirements:

10 to 17 V

(supplied from camera or CCU)

Power consumption:

4.0 W

Operating temperature:

+5°C to 40°C (41°F to 104°F)

Storage temperature:

-20°C to 55°C (-4°F to 131°F)

Dimensions:

102 (W) x 74 (D) x 354 (D) mm

(4 1/8 x 3 x 14 inches)

Mass:

Approx. 1.5 kg (3 lb 5 oz)



RCP-D51 Remote Control Panel (Dial Control Type)

Features

- •Covers the complete range of camera control functions
- •Provides Encoder operation •3.5-inch (*1) LCD screen with touch panel function •Allows incoming camera image to be monitored on LCD panel (*2) •Memory Stick system various scene files can be stored on/recalled from the Memory Stick media and loaded to a different RCP-D50/D51 or DXC-D55

(*1) Viewable area measured diagonally. (*2) When used with a CCU-TX7/TX7P camera control unit, please ask Sony representative.

Applicable Models

DXC-D55PH 3-chip CCD Portable Colour Camera

DXC-D55PK 3-chip CCD Portable Colour Camera

DXC-D55PL 3-chip CCD Portable Colour Camera

DXC-D55WSPL 3-chip CCD Portable Colour

DXC-D55WSPH 3-chip CCD Portable Colour Camera

Supplied Accessories

CCA-7-5 Connecting Cable (5 m) (1) Operation Manual (1) Screws and Washers (2) Number Plate (1)

Optional Accessories

CCA-7 Cables 10-pin/10-pin Cable

Specifications

Power requirements:

10 to 17 V

(supplied from camera or CCU)

Power consumption: 4.0 W

Operating temperature:

+5°C to 40°C (41°F to 104°F)

Storage temperature:

-20°C to 55°C (-4°F to 131°F)

Dimensions:

102 (W) x 74 (D) x 354 (D) mm

(4 1/8 x 3 x 14 inches)

Mass:

Approx. 1.3 kg (2 lb 14 oz)



RM-BR300 Remote Control Unit

Features

• Easy-to-use and ergonomic joystick design • Feature-rich control panel

Applicable Models

BRC-300 3-CCD Colour Video Camera BRU-300 Optical Multiplex Unit

Supplied Accessories

AC adaptor (1)
AC power cable (1)
RS-232C cable (1)
Terminal connector (2)
Operating instructions (1)



RM-C950 Remote Control Unit

Features

•Full remote control of the DXC-9000/950/ H10/390/990 camera functions and lens zoom/ focus/iris functions via RS-232C •Facilitated operation with knob control of gain, detail, master pedestal, red and blue gain functions •Power is supplied through the DXC-9000/ 950/990 connected to the CMA-D2 Camera Adaptor or CCU-M5 Remote Control Unit •Power is supplied through the DXC-H10 connected to the CMA-H10 Camera Adaptor

Applicable Models

DXC-390 3-CCD Colour Video Camera DXC-390P 3-CCD Colour Video Camera DXC-990 3-CCD Colour Video Camera DXC-990P 3-CCD Colour Video Camera DXC-C33 3-CCD Colour Video Camera DXC-C33P 3-CCD Colour Video Camera

Supplied Accessories

Connection cable (3 m) (1) Operation manual (1)

Specifications

Power requirements:
DC 12 V (supplied
from DXC-9000/950
connected to CMA-D2 or CCU-M5)
Operating temperature:
-5 to 45°C (23 to 113°F)
Connectors:

CAMERA (8-pin) Mass:

Approx. 400 g (14 oz)

Appr

Dimensions:

212 (W) × 41 (H) × 132 (D) mm

(8 3/8 × 1 5/8 × 5 1/4 inches)

(excluding projecting parts and controls)

RMM-301 Rack Mounting Bracket

Rack Mounting Bracket for CCU-590P and CCU-TX50

Specifications

Dimensions: 482(W) x 132(H) x 330(D)mm (19 1/8 x 5 1/4 x 13 inches) Mass:

4.7 kg (10 lb 6 oz)





VCL-0716BXA 1/2 Type Bayonet Mount Lens



Applicable Models

DXC-990 3-CCD Colour Video Camera
DXC-990P 3-CCD Colour Video Camera

Supplied Accessories

Lens cap (front) (1)
Operation manual (1)
Lens cap (rear) (1)

Specifications

Type

1/2 type Focal length

7.3 to 117 mm

Zoom ratio

16x

Maximum relative aperture

F1.9 (7.3 to 98 mm) to F2.3 (117 mm)

Flange focal length (in air)
38 mm (adjustable range: +/-0.3 mm)

Minimum object distance

1 m (0.04 m in macro operation)

Anale of view

Horizontal: 47°20' to 3°08'

Vertical: 36°24' to 2°21'

Diagonal: 57°26' to 3°55'

Iris control

Manual, Auto, Remote control from camera

or control box

Zoom control

Manual, Remote control from control box

Focus control

Manual, Remote control from control box

Power requirements

DC 12 V

Current consumption

70 mA (Quiescent), 350 mA (Maximum)

Mount

Bayonet mount

1.1000

Approx. 870 g (1 lb 15 oz) Dimensions (W x H x D)

90.5 x 75 x 144.2 mm (3 5/8 x 3 x 5 3/4 inches), without lens hood

* Zoom/Focus/Iris functions can be remotely controlled from RM-C950/8

VCL-616WEA 1/3 Type C-mount Lens



Supplied Accessories

Lens hood (1) Lens cap (front) (1) Lens cap (rear) (1) Operation manual (1)

Specifications

Application

1/3 type format 3CCD colour camera

Focal length

5.5 to 88 mm

Zoom ratio

Maximum relative aperture

F1.4 (5.5 mm) to F1.8 (88 mm)

Iris range

F1.4 to F16, closed

Flange focal length (in air)

17.526 +/-0.05 mm (adjustable range: +/-0.20 mm)

Minimum object distance

1.0 m

Angle of view

Horizontal: 47°09′ to 3°07′

Vertical: 36°15' to 2°21'

Iris control

Manual, Auto, Remote control from camera

or control box

Zoom control

Manual, Remote control from control box

Focus control

Manual, Remote control from control box

Power requirements

DC 12 V

Maximum current consumption

400 mA

Mount

C mount

Mass

Approx. 900 g (1 lb 16 oz), without lens

hood

Dimensions (W x H x D)

100 x 108 x 198.8 mm (4 x 4 1/4 x 7 7/8 inches)

VCS-700 Video Selector

Features

•Routes video output of multiple cameras for picture and waveform monitoring •Accepts up to six picture and waveform inputs •Video output selectable from the MSU-700A/750/A or external control equipment through the 37-pin I/O port •Two picture and waveform outputs available for different system applications



Applicable Models

BVP-E30P 3-chip CCD Portable Colour Camera BVP-E30WSP 3-chip CCD Portable Colour Camera

Supplied Accessories

AC power cord (1)
Plug holder for the AC pwer cord (1)
4-pin connector (1)
Operation manual (1)
Maintenance manual (1)

Specifications

General

Power requirements: 220 to 240 V AC, 50/60 Hz Power consumption: 0.28 VA Operating temperature: 5 to +45 °C (73 to +113 °F) Mass: 5.2 kg (11 lb 7 oz) Dimensions:

424(W) x 44(H) x 400(D)mm (16 3/4 × 1 3/4 × 15 3/4 inches)

Input connectors

PIX 1 to PIX 6 input: BNC type (6) WF 1 to WF 6 input: BNC type (6)

1.0 Vp-p(VBS)/0.7 Vp-p(V), 75 Ω

PIX A input:

BNC type (1) 1.0 Vp-p(VBS), 75 Ω

WF A input:

BNC type (1) 1.0 Vp-p(VBS), 75 Ω

CHARACTER input:

BNC type (1, with loop-through output)

0.7 Vp-p(V), 75 Ω

AC in:

Output connectors

PIX A and PIX B output: BNC type (1 each), 1.0 Vp-p(VBS), 75 Ω WF A and WF B output: 1.0 Vp-p(VBS)/0.7 Vp-p(V), 75 Ω

SYNC output:

BNC type (1)

0.3 Vp-p(VBS), 75 Ω , negative polarity

WF mode:

round 4-pin connector (1)

Remote connectors

REMOTE:

8-pin multiconnectors (1)

I/O PORT:

D-sub 37-pin(1)

VCT-U14 Tripod Adaptor



Applicable Models

DSR-250P/1 DVCAM Camcorder
DSR-400PK DVCAM Camcorder
DSR-400PL DVCAM Camcorder
DSR-450WSPL DVCAM Camcorder
DXC-D55PH 3-chip CCD Portable Colour
Camera
DXC-D55PK 3-chip CCD Portable Colour
Camera
DXC-D55PL 3-chip CCD Portable Colour

Camera
DXC-D55WSPL 3-chip CCD Portable Colour
Camera

DXC-D55WSPH 3-chip CCD Portable Colour Camera

Specifications

Dimensions: 282 (W) × 27 (H) × 80 (D) mm (11 1/8 × 11/8 × 3 1/4 inches) Mass:

Approx. 900 g (2 lb)

VFH-550 5-inch Type Viewfinder Sports Hood

5-inch type viewfinder sports hood for BVF-55 series

Applicable Models

BVF-55CE/1



VFH-770 7-inch Type Viewfinder Sports Hood

7-inch type viewfinder sports hood for BVF-7700/77 series

Applicable Models

BVF-77CE/1

HDVF-C730W LCD Colour Viewfinder



VFH-990 9-inch Type Viewfinder Sports Hood

9-inch Type Viewfinder Sports Hood for HDVF-C950 Multi-format HD Color LCD Viewfinder

Applicable Models

HDVF-C950W Multi-format HD Color LCD Viewfinder



WLL-CA50 Wireless Camera Transmitter (CER)

Features

•Wireless camera transmitter connected to either a Digital Betacam, MPEG IMX, or XDCAM camcorder, and used with the WLL-RX55 wireless camera receiver •MPEG-2 video compression and MPEG-1 Layer I/II 48-kHz audio

•COFDM for stable transmission •Time interleave

•Secure encryption key •2.4 GHz band transmission frequency allows a license-free operation •Cable-free camcorder connection •Flexible channel selector (up to 6 simultaneous channels) •User-friendly menu •Low power consumption



Applicable Models

DVW-970P Digital Betacam Camcorder MSW-970P MPEG IMX Camcorder PDW-510P XDCAM Camcorder (DVCAM Recording) PDW-530P XDCAM Camcorder (MPEG IMX/DVCAM Recording)

Supplied Accessories

Transmission antenna (1)

Optional Accessories

BP-GL95 Rechargeable Lithium-ion Battery BP-GL65 Rechargeable Lithium-ion Battery

Pack

WLL-RX55

Specifications

General

Power requirement: 12 V DC Power consumption:

Operating temperature:

0 °C to +40 °C (+32 °F to +104 °F)

Dimension (w x h x d):

97 x 209 x 152 (mm),

3 7/8 x 8 1/4 x 6 (inches)

Mass (excluding antenna):

1.2 kg (2 lb 10 oz)

RF block

TX centre frequency range: 2406 to 2478 MHz

Modulation:

16 QAM-COFDM, QPSK-COFDM

Occupied bandwidth:

8 MHz

Channel spacing:

12 MHz

RF power output:

4 mW (EIRP = 10 mW)

Antenna gain:

4.0 dBi

Input

Input signals:

Digital component parallel

40-pin (Sony camcorder)

SDI (embedded audio)

BNC (x1) (spare)

Ext. DC IN:

11.3 to 17 V DC

XLR 4-pin male (x1)

Lead-free solder is used for soldering

certain parts.

Halogenated flame retardants are not used

in the printed wiring boards.

WLL-CA55 Wireless Camera Transmitter (CER)

Features

 Wireless camera transmitter connected to a BVP-F30 camera, and used with the WLL-RX55 receiver •MPEG-2 broadcast quality video and MPEG-1 Layer I/II 48-kHz audio transmission •Stable transmission using COFDM technology •Time interleave •2.4 GHz band transmission frequency allows a license-free operation •Secure encryption key •Cable-free camera connection •Full camera remote control capability •Full camera genlock •Flexible channel selector (up to 6 simultaneous channels) •User-friendly menu •Transmission status display in viewfinder •Low power consumption



Applicable Models

BVP-E30P 3-chip CCD Portable Colour Camera BVP-E30WSP 3-chip CCD Portable Colour Camera

Supplied Accessories

Transmission antenna (1) Operation manual (1)

Optional Accessories

BP-GL65 Rechargeable Lithium-ion Battery Pack BP-GL95 Rechargeable Lithium-ion Battery Pack WRR-855B UHF Synthesised Diversity Tuner (62CE7)

Specifications

General

Power requirements:

DC 12 V

Power consumption:

15 W

Operating temperature:

-20 °C to +45 °C (-4 °F to +113 °F)

Dimensions (W x H x D):

132 x 214 x 176 mm (5 1/4 x 8 1/2 x 7 inches) Mass (excluding antenna):

2 kg (4 lb 7 oz)

RF block

Transmission frequency range: 2402 to 2470 MHz (USA and Canada) 2402 to 2482 MHz (Other countries)

Transmission centre frequency range: 2406 to 2466 MHz (USA and Canada) 2406 to 2478 MHz (Other countries)

Transmission mode:

Standard/Robust/High-picture/Standard-LD (low delay)/Robust-LD (low delay)

Minimum system delay (Time interleave mode: off):

2.3 frames (*)

Modulation:

16 QAM-COFDM, QPSK-COFDM

Occupied bandwidth:

8 MHz

Channel spacing:

12 MHz

RF power output: 4 mW (EIRP=10 mW)

Antenna gain:

4.0 dBi

Antenna directivity:

Omni-directional

Input/output

Camera interface:

Digital component parallel 68-pin (for Sony

digital camera)

Analogue component parallel 68-pin (for Sony analogue camera)

DC input:

XLR-4-pin (for the optional AC-550/550CE), DC 10.5 to 17 V

4-pin (for wireless microphone receiver), DC 10.5 to 17 V (Max. 200 mA)

RF output:

N-type special connector, 50 Ω

Video input:

BNC (SDI or analogue composite),

1.0 Vp-p, 75 Ω

Audio input (CH-1/CH-2):

XLR-3-pin x 2

Intercom

XLR-5-pin

Earphone:

Mini jack

Remote:

nia-8

Slot for wireless microphone receiver:

D-sub 15-pin

Eco info

Lead-free solder is used for soldering certain

Halogenated flame retardants are not used in the printed wiring boards.

WLL-RX55 Wireless Camera Receiver

Features

- ·Wireless camera receiver, designed to be used with the WLL-CA50/CA55 • Diversity reception • MPEG-2 video compression and MPEG-1 Layer I/II 48-kHz audio
- •COFDM for stable transmission Time interleave
- •2.4 GHz band transmission frequency allows a license-free operation •Secure encryption key
- •Flexible channel selector (up to 6 simultaneous channels) •Wireless camera control capability
- •User-friendly menu •Versatile antenna unit



Supplied Accessories

Reception antenna (2)

Down converter (2)

Mounting bracket (2)

Mounting screw: M3 (4)

Mounting screw: M4 (8)

Coaxial cable with N-type connectors (10 m)

4-pin connector (1)

Fasten belt (1)

Camera number plate (1) Operation manual (1)

Optional Accessories

RM-B750 Remote Control Unit

RM-B150 Remote Control Unit

RCP-750 Remote Control Panel (Joystick

RCP-751 Remote Control Panel (Dial control (eqvt

WRT-8B UHF Synthesised Transmitter (6668U)

WRT-822A UHF Synthesised Wireless

Transmitter (64U)

WRT-822B UHF Synthesised Wireless

Transmitter (62CE7)

Specifications

General

Power requirements:

AC 100 to 240 V. 50/60 Hz or DC 12 V

Power consumption:

Operating temperature:

5 to 40 °C (41 to 104 °F)

Storage temperature:

-20 to +60 °C (-4 to +140 °F)

Dimensions (W x H x D):

200 x 127 x 365 mm (7 7/8 x 5 x 14 3/8

inches)

Mass:

5 kg (11 lb)

Reception system

Receiving centre frequency range:

2406 to 2478 MHz

Occupied bandwidth:

8 MHz

Channel spacing: 12 MHz

Antenna gain:

9.0 dBi

Antenna directivity:

60° Modulation:

16QAM-COFDM, QPSK-COFDM

IF centre frequency: 326 to 398 MHz

IF input connector:

N-type special connector x 2, 50 Ω

IF output connector:

N type special connector x 2, 50 Ω , loop

Input/output

Bitstream input:

Data format

DVR-ASI

Connector

BNC x 2, 75 Ω

Bitstream output:

Data format

DVB-ASI Connector

BNC x 2, 75 Ω

Sync signal input:

Reference input

BNC x 2, VBS/BS: 1.0 Vp-p, 75 Ω , loop

through

Digital signal output:

SDI/ASI output

BNC x 3, transmission cable length:

max. 200 m

SDI: 4:2:2 component serial digital

(270 Mb/s), 0.8 Vp-p, 75 Ω

ASI: DVB-ASI, EN50083-9 (DVB-PI-232

Revised TM Rev.2)

Transmission mode: Data-packet

mode (188 bytes)

Analogue signal output:

Video 1

BNC, 1.0 Vp-p, 75 Ω

Video 2

BNC, 1.0 Vp-p, 75 Ω

Video 3

BNC, 1.0 Vp-p, 75 Ω

PIX

BNC, 1.0 Vp-p, 75 Ω

BNC, Encode output: 1.0 Vp-p, 75 Ω

WF mode 4-pin

Audio output

XLR-3-pin x 2, 0 dBu/-20 dBu balanced

Other input/output

DC input:

XLR-4-pin (for the optional AC-550/550CE),

DC 10.5 to 17 V

DC output:

4-pin (for wireless microphone transmitter) (Max. 200 mA)

80

Remote:

8-pin

Intercom/Tally/Program:

D-sub 25-pin, 4W/RTS,

Tally: DC 24 V, TTL level, or contact

selectable

Mic remote:

D-sub 15-pin

Intercom (front)

XLR-5-pin

Camera control:

XI R-3-nin Eco info

Lead-free solder is used for soldering certain

Halogenated flame retardants are not used in the printed wiring boards.

HDV

HVR-Z1E .								82
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HVR-A1E .								86
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HVR-M25E								89
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HVR-Z1E HDV Camcorder

Features

3CCD Camera System with "1080i HD CCD" •14bit HD DXP •Carl Zeiss® Vario-Sonnar® T* Lens with 12x Optical Zoom •HD Codec Engine ™ •HDV1080i/DVCAM/DV (SP) recording and playback switchable system •50i/60i (PAL/NTSC) recording and playback switchable system Precision 16:9 SD recording and playback •Down Conversion function •Built-in wide-range stereo microphone and 2 ch. XLR Audio Inputs •Versatile Time Code settings •16:9 colour viewfinder •16:9 3.5" hybrid colour LCD monitor •Simultaneous Operation of LCD monitor and viewfinder •On handle zoom lever and rec. start/stop button . Variety of zoom operation •AF (Auto Focus) assist •Manual Iris •Manual Gain •Manual Shutter Speed •Assign Buttons (custom configurable) • Expand focus • Marker •Colour bars •External REC control •Quick REC •Audio Settings (recording levels, mic. Select, monitoring, audio lock, output select, limiter, noise reduction) •Shot Transition ™ •Picture Profile ™ Cinematone Gamma ™ and Cineframe ™ •Colour correction functions •Status Check button •Multi-language operation •Battery status indicator •Customised menu

Supplied Accessories

settings •Long recording time

AC-VQ850 (AC Adaptor/Charger)
Power cord DK-415 (Connecting cord)
NP-F570 (InfoLITHIUM Rechargeable battery pack)
Lens Hood
Large Eye Cup
RMT-841 (Wireless Remote Controller)
A/V Connecting cable
Shoe Adaptor
2x Size AA (R6) batteries
Cleaning Cassette
Shoulder strap

Optional Accessories

AC-VQ1050B (AC Adaptor/Charger)
HVL-LBP LED Videolight
NP-F970 InfoLITHIUM rechargeable battery pack
NP-F770 InfoLITHIUM rechargeable battery pack
NP-F570 InfoLITHIUM rechargeable battery pack
NP-F970/B InfoLITHIUM rechargeable battery pack
2NP-F970/B InfoLITHIUM rechargeable battery pack
VCT-FXA Shoulder Brace
VCL-HG0872 0.8x Wide Conversion Lens
VF-72CPK Filter Kit
LCH-FXA Hard Carrying Case
LCS-VCB Soft Carrying Case
LCS-VCB Soft Carrying Case
LCR-FXA Rain Jacket
ECM-673 Electret Condenser Microphone
UWP-C1 & C2 UHF Synthesised Wireless Microphone Package

Specifications Camera section

Lens:

Carl Zeiss Vario-Sonnar T* zoom lens, 12x (optical), f = 4. 5 to 54 mm (3/16 to 2 1/4 inches), f = 32.5 to 390 mm (1 5/16 to 15 3/8 inches)* at 16:9 mode, f = 40 to 480 mm (1 5/8 to 19 inches)* at 4:3 mode, F = 1.6 to 2.8, filter diameter: 72 mm (2 7/8 inches)

Built-in filter:

1/6 ND, 1/32 ND

Focus:

Auto, manual (focus ring/infinity position), one push auto

Imaging device:

3-chip 1/3-inch type CCDs

Picture elements:

Approx. 1,070,000 pixels (effective), approx. 1,120,000 pixels (total)

White balance:

Auto, one-push auto, indoor (3200 K), outdoor (5800 K ± 7 steps)

Shutter speed:

50i/PAL mode 1/3, 1/6, 1/12, 1/25, 1/50, 1/60, 1/100, 1/120, 1/150, 1/215, 1/300, 1/425, 1/600, 1/1000, 1/1250, 1/1750, 1/2500, 1/3500, 1/6000, 1/10000 s 60i/NTSC mode 1/4, 1/8, 1/15, 1/30, 1/60, 1/90, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000 s

Exposure:

Auto, manual

Gain:

0, 3, 6, 9, 12, 15, 18 dB (adjustable for H, M and L gain positions)

Minimum illumination:

3 lx with F1.6 at 18 dB

VTR section

Recording format:

1080/50i, 1080/60i, 576/50i (PAL), 480/60i (NTSC)

Playout/Down-conversion format:

1080/50i, 1080/60i, 576/50i (PAL), 480/60i (NTSC) 576/50p, 480/60p

Tape speed:

HDV/DV SP Max. 18.812 mm/s with PHDVM-63DM cassette DVCAM Max. 28.218 mm/s with PHDVM-63DM cassette

Playback/Recording time:

HDV/DV SPMax. 63 min with PHDVM-63DM cassette DVCAM Max. 41 min with PHDVM-63DM

DVCAM Max. 41 min with PHDVM-63DN cassette

Fast forward/Rewind time:

Approx. 2 min 40 s with PHDVM-63DM cassette

Built-in input/output devices

LCD viewfinder:

0.44-inch type, approx. 252,000 pixels (1120 x 225), hybrid type LCD monitor 3.5-inch type, approx. 250,000 pixels (1120 x 224), hybrid type

Microphone:

Stereo type, noise reduction on/off

General

Mass Approx.:

2.1 kg (4 lb 10 oz) (camcorder only)

Power requirements

DC 7.2 V (battery pack)

Power consumption:

HDV Approx. 8.0 W (recording mode with LCD viewfinder on)
DVCAM/DVApprox. 7.6 W (recording mode with LCD viewfinder on)

Operating temperature:

0 to 40 °C (32 to 104 °K)

Storage temperature:

-20 to +60 °C (-4 to 140 °K)

Supplied accessories:

AC-VO850 AC adaptor/charger, power cord, connecting cord, lens hood, large eye-cup, RMT-841 wireless Remote Commander, A/V connecting cable, component video cable, shoe adaptor, NP-F570 InfoLITHIUM rechargeable battery pack, size AA (R6) batteries (2), cleaning cassette, shoulder strap, operating instructions

^{*} These values are calculated to be equivalent to 35mm film

HVR-V1E HDV Camcorder

Features

•Adopts HDV 1080i specification of the HDV format

•Compatible with existing DV tape and new high-grade mini cassette tape: DigitalMaster PHDVM-63DM •Long recording time of 63 minutes with the PHDVM-63DM DigitalMaster mini cassette tape •Optical 20x Carl zeiss Vario-Sonnar T* lens •Super SteadyShot system (optical) •Switchable recording and playback - HDV 1080i/DVCAM/DV (SP) •25p Progressive Shooting Capability •Down-conversion playback capabilities from 1080i to 576i •16:9 widescreen acquisition in DVCAM and DV formats •2-channel XLR audio input •Time code preset •Interval recording •Smooth Slow Rec function

- •Shot Transition function •Picture Profile feature
- Last Scene Review function
 Playback Zoom function
- •TC LINK function for multi-camera operations
- •Long operating time up to 7 hours with the NP-F970 battery •On-handle zoom lever and Rec Start/Stop button
- •Camera setting storage on Memory Stick Duo media
- •Carnera setting storage on Memory Stick Duo media
 •HDMI (High-Definition multimedia interface) output
 connector •3.5-inch type widescreen, Clear Photo
 LCD plus monitor •Marker display •Six user assignable
 function buttons •Cinematone Gamma feature •Black
 Stretch and Black Compress functions •Knee Correction
 function •Cinematone Color function •Focal length display
 in meters or feet •Shutter speed display in units of
 rotation angles



Supplied Accessories

AC-L15 AC adaptor (1)
Power cord (1)
NP-F570 infoLITHIUM rechargeable battery pack (1)
AV connecting cable (1)
Component video cable (1)
USB cable (1)
Lens hood with lens cover (1)
RMT-831 wireless Remote Commander (1)
ECM-NV1 monaural electolet condenser microphone (1)
Operating instructions(CD-ROM) (1)
Printed operating instructions (1)

Optional Accessories

HVL-LBP Video Light
LCS-G1BP Soft Carrying Case
SH-L35WBP LCD Hood
VCL-HG0862K 0.8x Wide Conversion Lens
VCT-1BP Bracket
VF-62CPK PL Filter Kit
VMC-30FS 3m Multi AV Cable (with S Video)
VMC-30VC 3m Component Video Cable
NP-F770 InfoLITHIUM Rechargeable Battery Pack

NP-F970 InfoLITHIUM Rechargeable Battery Pack 2NP-F970/B InfoLITHIUM Rechargeable (2) Battery Pack

VCT-PG11RMB Tripod with the RM-1BP LANC Remote Controller ECM-673 Electret Condenser Microphone

UWP-C2 UHF Synthesized Wireless Microphone Package (62CE7) UWP-C2 UHF Synthesized Wireless Microphone Package (AU) UWP-C2 UHF Synthesized Wireless Microphone Package (67CE7) UWP-C1 UHF Synthesized Wireless Microphone Package (AU) UWP-C1 UHF Synthesized Wireless Microphone Package (62CE7) UWP-C1 UHF Synthesized Wireless Microphone Package (67CE7)

DVCAM

cassette Fast forward/Rewind time

cassette (AC adaptor)

cassette (battery pack)

Max. 41 min with PHDVM-63DM

Approx. 1 min 45 s with PHDVM-63DM

Approx. 2 min 40 s with PHDVM-63DM

Specifications Input/Output connectors Camera section Audio/Video output A/V OUT jack, 10-pin connector Lens Carl Zeiss Vario-Sonnar T* zoom lens, Composite video: 1 Vp-p, 20x (optical), f = 3.9 to 78 mm, f = 37.4 to 75 Ω unbalanced, sync negative Y: 1 Vp-p, 75 Ω unbalanced 748 mm at 16:9 mode f = 45.7 to 914 mm at 4:3 mode, F = 1.6 to 2.8, C: 0.3 Vp-p (burst signal), filter diameter: 62 mm 75 Ω unbalanced Built-in filter Audio: 327 mV input impedance more than 47 k Ω , output impedance less than 2.2 k Ω 1/4 ND, 1/16 ND Component video output Focus Auto, manual (focus ring/one COMPONENT OUT jack Y: 1 Vp-p, 75 Ω unbalanced push auto/infinity) Pr/Pb (Cr/Cb): 700 mVp-p. Imaging system 1/4-inch type, 3 ClearVid CMOS 75 Ω unbalanced HDV/DV input/output Sensor system Picture elements i.LINK interface (IEEE 1394, Approx. 1,037,000 pixels (effective), 4-pin connector S100) approx. 1,120,000 pixels (total) XLR audio input XLR 3-pin female x 2, 327 mV, -60 dBu: White balance Auto, one-push auto (2 positions), 3 k Ω , +40 dBu: 10.8 k Ω , power supply: indoor (3200 K), outdoor approx. 48 V (5800 K +15steps) Headphone Stereo mini jack (ø3.5 mm) Manual shutter speed 1/3, 1/6, 1/12, 1/25, 1/50, 1/60, 1/100, LANC Stereo mini-mini jack (ø2.5 mm) 1/120, 1/150, 1/215, 1/300, 1/425, 1/600, 1/1000, 1/1250, 1/1750, 1/2500, 1/3500, USB Mini-B connector 1/6000, 1/10000 s Exposure HDMI output Auto, manual (Type1/Type2) HDMI connector Gain **Built-in output devices** 0, 3, 6, 9, 12, 15, 18 dB LCD viewfinder 0.54-inch type, approx. 252,000 dots, Minimum illumination 4 lx with F1.6 at 18 dB 16:9 aspect ratio LCD monitor VTR section Recording format 3.5-inch type, Clear Photo LCD plus, 1080/50i, 576/50i (PAL) approx. 211,200 dots, hybrid type, Play out/Down conversion format 16:9 aspect ratio 1080/50i, 576/50i (PAL) Speaker Diam.16mm Tape speed HDV/DV SP General Max. 18.812 mm/s Mass Approx. 1.5 kg (3 lb 6 oz) DVCAM Max. 28.218 mm/s (camcorder only) Power requirements Playback/Recording time HDV/DV SP DC 7.2 V (battery pack), Max. 63 min with PHDVM-63DM DC 8.4 V (AC adaptor) cassette

Power consumption

HDV

Approx. 6.8 W (recording mode with LCD viewfinder or monitor on)

DVCAM/DV

Approx. 6.6 W (recording mode with LCD viewfinder or monitor on)

Operating temperature 0 to 40 °C (32 to 104 °F)

Storage temperature

-20 to +60 °C (-4 to +140 °F)

HVR-A1E HDV Camcorder

Features

•Adopts HDV 1080i specification of the HDV format that features 1080 effective scanning lines and 1440 horizontal pixels •Compatible with existing DV tape and new high-grade mini cassette tape; DigitalMaster PHDVM-63DM ·Long recording time of 63 minutes with the DigitalMaster mini cassette tape •1/3-inch type, 2.97-megapixel CMOS sensor •Enhanced Imaging Processor (EIP) • Optical 10x Carl Zeiss Vario-Sonnar T* zoom lens •Electronic Super SteadyShot system •Full scan mode to capture images with the resolution of approximately two million pixels •Switchable recording and playback - HDV 1080i/DVCAM/DV (SP) • Down-conversion playback from 1080i down to 576i and 576P •Aspect ratio conversion from 16:9 to 4:3 •HD Codec Engine to compress baseband HD signal data at approx. 25 Mb/s with MPEG-2 compression ·Still picture recording to Memory Stick Duo media •16:9 widescreen acquisition in DVCAM and DV formats •i.LINK interface •2-channel XLR audio input •2-channel independent audio record level control with audio level meter . Compact and lightweight design •16:9, colour/black-and-white switchable LCD viewfinder •2.7-inchtype, 16:9 widescreen, hybrid colour LCD monitor •Variety of zoom operations with a zoom lever, a zoom/focus ring and zoom buttons •Manual and automatic exposure control using the exposure lever •Tele macro function •New backlight compensation function •Marker display •User assignable function button •Time code preset •Histogram indicator for easy evaluation of the brightness of captured images ·Shot Transition function to offer automatic transition of various shooting parameters between shots •Cinema-like image shooting . Long operating time; 300 minutes in HDV mode and 340 minutes in DVCAM/DV mode with the NP-QM91D battery •Expanded focus function for easy confirmation of focus setting during manual focusing •Peaking function to enhance the outline of the image in the viewfinder for easy manual focusing •Zebra function

for easy manual exposure control •Quick REC function to

shorten the time until the recording starts from stop mode

function to allows operators to customise the setting menu

function to display the battery charge level and remaining

Status check function for easy confirmation of various

parameters of camera setting menus •Personal menu

to display frequently used menu items •Battery info

recording time •Super night shot function to capture

•Skin tone detail function •Black stretch function

images in black and white using a built-in infrared light



Supplied Accessories

AC-L15 AC Adaptor
Power cord
NP-FM50 InfoLITHIUM Rechargeable battery pack
Lens hood with lens cover
RMT-831 Wireless Remote Commander unit
A/V connecting cable with S video
Component video cable
USB cable
Memory Stick Duo (16 MB)
Memory Stick Duo adaptor
ECM-NV1 Monaural electret condenser microphone
XLR Audio adaptor
Shoulder strap
Operating instructions

Optional Accessories

NP-QM71D InfoLITHIUM Rechargeable Battery Pack
NP-QM91D Rechargeable Battery Pack
VCL-HG2037Y 2.0x Tele Conversion Lens
VCL-HG2037Y 0.7x Wide Conversion Lens
LCH-HCE Hard Carrying Case
VMC-30VC Cable 3m Component Video Cable
VMC-30FS Cable 3m Multi AV Cable (with S Video)
PHDVM-63DM tape DigitalMaster Mini Cassette Tape
RM-1BP LANC Remote Controller
VCT-PG11RMB Tripod with the RM-1BP
LANC Remote Controller
UWP-C1 UHF Synthesised Wireless Microphone Package
ECM-673 Electret Condenser Microphone
UWP-C1 & C2 UHF Synthesised Wireless Microphone Package

Specifications Camera section

Lens

ns
Carl Zeiss Vario-Sonnar T* zoom lens,
10x (optical), f = 5.1 to 51 mm, f = 40 to
400 mm in 16:9 mode and 49.3 to 493 mm
in 4:3 mode (full scan mode on)*
f = 41 to 480 mm in 16:9 mode and 50 to
590 mm in 4:3 mode (full scan mode off)*
f = 40 to 400 mm in 16:9 mode and 37 to
370 mm in 4:3 mode (still picture mode)*
f = 1.8 to 2.1, filter diameter: 37 mm

Focus

Auto, manual, spot focus (touch panel control)

Imaging device

1-chip, 1/3-inch type primary colour CMOS sensor

Picture elements

Approx. 2,969,000 pixels (total)

Shutter speed

1/3, 1/6, 1/12, 1/25, 1/50, 1/60, 1/100, 1/120, 1/150, 1/215, 1/300, 1/425, 1/600, 1/1000, 1/1250, 1/1750, 1/2500, 1/3500, 1/6000, 1/10000 s

Minimum illumination

7 lx with F1 8

VTR section

Recording format 1080/50i, 576/50i

Play out/Down conversion format 1080/50i, 576/50i, 576/50P

Tape speed HDV/DV SP

Max. 18.812 mm/s with PHDVM-63DM cassette

DVCAM

Max. 28.218 mm/s with PHDVM-63DM cassette

Playback/Recording time

HDV/DV SP

Max. 63 min with

PHDVM-63DM cassette

DVCAM

Max. 41 min with PHDVM-63DM cassette

Fast forward/Rewind time

Approx. 2 min 40 s with PHDVM-63DM cassette (using a fully charged battery Approx. 1 min 45 s with PHDVM-63DM cassette (using an AC adaptor)

Input/Output connectors

Audio/Video input/output

A/V OUT jack, 10-pin connector

Composite video: 1 Vp-p,

75 Ω unbalanced, sync negative

Y: 1 Vp-p, 75 Ω unbalanced, sync negative

C: 0.3 Vp-p, 75 Ω unbalanced

Audio: 327 mV, input impedance more than 47 k Ω , output impedance less than 2.2 k Ω

Component video output

COMPONENT OUT jack

Y: 1 Vp-p (0.3 V, sync negative),

75 Ω unbalanced

Pr/Pb (Cr/Cb): 525 mVp-p (75% colour

bar

HDV/DV input/output

i.LINK interface

(IEEE 1394, 4-pin connector)

XLR audio input

XLR 3-pin female x 2, 327 mV, -60 dBu:

 $3~k\Omega$, +40 dBu: 10.8 $k\Omega$,

power supply: approx. 48 V

Headphone

Stereo minijack (Ø 3.5 mm) x 1

MIC

Minijack x 1, 0.388 mV, low impedance with DC 2.5 to 3.0 V, output impedance 6.8 k Ω (Ø 3.5 mm), stereo type

LANC

Stereo mini-minijack (Ø 2.5 mm) x 1

JSB

Mini-B x 1

Built-in input/output devices

LCD viewfinder

0.44-inch type, approx. 252,000 (1120 x 225) pixels, hybrid type,

16:9 aspect ratio

LCD monitor

2.7-inch type, approx. 123,200 (560 x 220) pixels, hybrid type,

16:9 aspect ratio

Microphone

Stereo type, noise reduction on/off

Speaker

Ø16 mm

General

Mass

Approx. 670 g (1 lb 7 oz) (camcorder only)

Power requirements

DC 7.2 V (battery pack),

DC 8.4 V (AC adaptor) Power consumption

HDV

Approx. 5.6 W (recording mode with

LCD viewfinder on)

DVCAM/DV

Approx. 5.1 W (recording mode with

LCD viewfinder on)

Operating temperature

0 to 40°C (32 to 104°K)

Storage temperature

20 to +60 °C (-4 to 140 °F)

* These values are calculated to be equivalent to 35 mm film.

HVR-M15E HDV VTR

Features

 Adopts HDV 1080i specification of the HDV format that features 1080 effective scanning lines and 1440 horizontal pixels •Compatible with existing DV tape and new DigitalMaster high-grade videocassette tape •Switchable recording and playback - HDV 1080i/DVCAM/DV SP and 60i/50i • Dual-size cassette mechanism to accept both mini and standard cassettes . Long recording time a maximum of 276 minutes with the PHDV-276DM DigitalMaster standard cassette tape •Down-conversion playback capabilities from 1080i down to 480i, 576i, 480P, and 576P •i.LINK interface •Time code copy from external devices •Auto repeat •Colour bar and 1-kHz audio tone signal output •External control by the supplied wireless Remote Commander unit •Built-in tape cleaner for reliable operation •Compact, unique design - can be placed vertically and horizontally

Supplied Accessories

Remote Commander (1) AC Adaptor (1) Size AA Battery (2) Power Cord (1) Stand (1) Clearning Cassette (1) Operating Instructions (1)

Optional Accessories

VMC-IL44 i.LINK Cable (4-pin to 4-pin)
VMC-IL46 i.LINK Cable (4-pin to 6-pin)
PHDV/PHDVM DigitalMaster Standard and Mini Cassette Tapes





Specifications

Recording/Playback performance

Recording/Playback performance
Recording format
1080/60i, 1080/50i,
480/60i (NTSC), 576/50i (PAL)
Playout/down conversion format
1080/60i, 1080/50i,
480/60i (NTSC), 576/50i (PAL),
480/60p, 576/50P
Tape speed
HDV/DV SP
Max. 18.812 mm/s
DVCAM
Max. 28.218 mm/s
Playback/recording time

HDV/DV SP
Max. 276 min with
PHDV-276DM cassette.

Max. 63 min with

PHDVM-63DM cassette

DVCAM

Max. 184 min with PHDV-276DM cassette Max. 41 min with

PHDVM-63DM cassette Fast forward/rewind time

Approx. 2 min with PHDV-276DM cassette

Input/Output connectors/devices

Video input/output RCA pin x 2 Video signal: 1 Vp-p, 75 Ω unbalanced, sync negative S-video input/output Mini-DIN 4-pin x 2 Y: 1 Vp-p, 75 Ω unbalanced, sync negative C: 0.286 Vp-p (NTSC), 0.3 Vp-p (PAL), 75 O unbalanced Component video output RCA pin x 3 Y: 1 Vp-p (0.3 V, sync negative) Pr/Pb (Cr/Cb): 700 mVp-p (100% colour bar), input impedance 75 Ω i I INK 4-pin LANC

Stereo mini-minijack (Ø2.5 mm) Control S

Stereo minijack (Ø3.5 mm)

Audio input

RCA pin x 2

Input level: -10 dBu, input impedance: min.

10 k Ω unbalanced

Max input level: +16 dBu (approx. 5 Vrms) in 60i mode, +14 dBu (approx. 4 Vrms)

in 50i mode

Audio output

RCA pin x 2 Output level: -10 dBu (full bit -20 dB), impedance 47 k Ω , unbalanced in 60i mode, -10 dBu (full bit -18 dB), impedance 47 k Ω , unbalanced in 50i mode

Impedance: max. 1 k Ω unbalanced

General

Dimensions (W x H x D)

184 x 69 x 261 mm

(7 1/8 x 2 3/4 x 10 3/8 inches)

Mass

Approx. 2.3 kg (5 lb 1 oz)

Power requirements

DC 8.4 V

Power consumption

12 W (playback mode with

LCD monitor on)

Operating temperature

5 to 40°C (41 to 104°K)

Storage temperature

-20 to +60°C (-4 to 140°K)

HVR-M25E HDV VTR

Features

 Adopts HDV 1080i specification of the HDV format that features 1080 effective scanning lines and 1440 horizontal pixels •Compatible with existing DV tape and new DigitalMaster high-grade videocassette tape •Switchable recording and playback - HDV 1080i/DVCAM/DV SP and 60i/50i • Dual-size cassette mechanism to accept both mini and standard cassettes . Long recording time a maximum of 276 minutes with the PHDV-276DM DigitalMaster standard cassette tape •Down-conversion playback capabilities from 1080i down to 480i, 576i, 480P, 576P, and 720P • Edge Crop Adjust function • i.LINK interface •Time code copy from external devices •Auto Repeat and Custom Repeat functions •Colour bar and 1-kHz audio tone signal output •External control by the supplied wireless Remote Commander unit •Built-in tape cleaner for reliable operation •Built-in, 2.7-inch* type, Clear Photo LCD Plus monitor •HDMI (High Definition Multimedia Interface) output •DUPLICATE PLUS function for an easy duplication of video and audio along with the time code •MARKER BURN function to allow the 4:3 marker to be superimposed onto video output •Time counter •Time code preset •Status Check function for easy status or settings check on the LCD monitor •Assign Buttons function to assign frequently used functions to the buttons on the front panel •All Scan Mode to display all effective scanning lines in the screen





Supplied Accessories

Supplied Accessories Remote Commander (1) Size AA Battery (2) Power Cord (1) Clearning Cassette (1) Operating Instructions (1)

Optional Accessories

VMC-IL44 i.LINK Cable (4-pin to 4-pin) VMC-IL46 i.LINK Cable (4-pin to 6-pin) DLC Cables HDMI Cables PHDV/PHDVM DigitalMaster™ Standard and Mini Cassette Tapes

Specifications

Recording/Playback performance

Recording format 1080/60i, 1080/50i, 480/60i (NTSC), 576/50i (PAL) Playout/down conversion format 1080/60i, 1080/50i, 480/60i (NTSC), 576/50i (PAL), 480/60P, 576/50P, 720/60P, 720/50P Tape speed HDV/DV SP

Max. 18.812 mm/s DVCAM Max. 28.218 mm/s

Playback/recording time

HDV/DV SP

Max. 276 min with

PHDV-276DM cassette Max 63 min with

PHDVM-63DM cassette

DVCAM

Max. 184 min with PHDV-276DM cassette

Max 41 min with PHDVM-63DM cassette

Fast forward/rewind time Approx. 2 min with PHDV-276DM cassette

Input/Output connectors/devices

Video input/output BNC x 2 Video signal: 1 Vp-p, 75 Ω unbalanced, sync negative S-video input/output Mini-DIN 4-pin x 2

Y: 1 Vp-p, 75 Ω unbalanced, sync negative C: 0.286 Vp-p (NTSC), 0.3 Vp-p (PAL), 75 Ω unbalanced,

Component video output

BNC x 3

Y: 1 Vp-p (0.3 V, sync negative) Pr/Pb (Cr/Cb): 700 mVp-p

(100% colour bar), input impedance 75 Ω

i.LINK 4-pin

HDMI output

19-pin (type A), video: 1080/60i, 1080/50i, 480/60i (NTSC), 576/50i (PAL), 720/60P, 720/50P, 480/60P, 576/50P, audio:

PCM 48 kHz/16-bit

Phones

Stereo minijack (Ø3.5 mm), 8 Ω loading

LANC

Stereo mini-minijack (Ø2.5 mm)

Control S

Stereo minijack (Ø3.5 mm)

Audio input

RCA pin x 2

Input level: -10/-2/+4 dBu,

+30 dBu (approx. 25 Vrms)

input impedance: min. 47 k Ω unbalanced

max. input level: -10: +18 dBu (approx. 6 Vrms), -2: +24 dBu (approx. 12.5 Vrms), +4:

Audio output RCA pin x 2

> Output level: -10 dBu (full bit -20 dB), impedance 47 k Ω , unbalanced in 60i mode, -10 dBu (full bit -18 dB), impedance 47 k Ω , unbalanced in 50i mode Impedance: max. 1 k Ω unbalanced

LCD monitor

2.7-inch* type, approx. 211,200 dots (960 x 220), Clear Photo LCD Plus

General

Dimensions (W x H x D) 212 x 88 x 380.7 mm (8 3/8 x 3 1/2 x 15 inches)

Approx. 4.3 kg (9 lb 8 oz) Power requirements AC 220 to 240 V, 50 Hz Power consumption 12 W (playback mode with LCD monitor on)

Operating temperature 5 to 40°C (41 to 104°K)

Storage temperature

-20 to +60°C (-4 to 140°K)

^{*} Viewable area, measured diagonally

HVR-1500 HDV VTR

Features

 Compatible with existing and new DV videocassette tapes •Switchable recording -HDV 1080i/DVCAM/DV and 60i/50i •Playback compatibility with DV (25 Mb/s) family formats including DVCPRO 25 •Long recording time - a maximum of 276 minutes with a PHDV-276DM DigitalMaster standard cassette tape in the HDV format and a maximum recording of 184 minutes with a PDV-184N standard cassette tape in the DVCAM format •Down-conversion capability •HD-SDI output •SD-SDI input and output •AES/EBU interface •i.LINK interface •Analog interfaces •RS-422A control •HD and SD reference inputs •Time code Input/Output •Built-in signal generator •Quick response mechanism •Tape and head cleaner for reliable operation •Built-in 2.7-inch** LCD monitor •Auto repeat •Assign button •Digital slow motion and jog sound (in DVCAM mode) •Picture search (in HDV mode) •Picture search using menu keys •Audio level control •Compact design (half-rack wide, 3U high) •AC operation (100 to 240 V, 50/60 Hz) •Low power consumption (approximate 60 W) •VITC (vertical interval time code) (DVCAM format only) •Video processor control via menu •Closed caption function (DVCAM/DV, NTSC format only) •SIRCS (Sony integrated remote control system) interface





Supplied Accessories

AC Power Cord (1)
Operational Instructions (1)

Optional Accessories HVBK-1505 Analog Input Board

RM-280 Editing Controller DSRM-10 Remote Control Unit VMC-IL46 Cables i.LINK Cable (4-pin to 6-pin) RCC-G Cables 9-pin/9-pin Cable PHDV/PHDVM Tapes DigitalMaster Standard and Mini Cassette Tapes

PDV-N Tapes Digital Videocassette Tapes (Non IC type)

PDV-ME Tapes Digital Videocassette Tapes
PDV-CL Tapes Video Head Cleaning Cassette

Tapes (for DVCAM)

Specifications

Recording/Playback performance

Recording format 60i system

1080/60i⁻¹, 480/60i⁻¹ (NTSC)

50i system

1080/50i, 576/50i (PAL)

Playback & down conversion format

60i system

1080/60i⁻¹, 480/60i⁻¹ (NTSC)

50i system

1080/50i, 576/50i (PAL)

Tape speed

HDV/DV SP

60i system: 18.812 mm/s 50i system: 18.831 mm/s

DVCAM

60i system: 28.193 mm/s 50i system: 28.221 mm/s

Playback/recording time

HDV/DV SP

Max. 276 min with PHDV-276DM cassette Max. 63 min with

PHDVM-63DM cassette

DVCAM

Max. 184 min with PDV-184N cassette
Max. 40 min with PDVM-40N cassette

Fast forward/rewind time

Approx. 3 min with PHDV-276DM and PDV-184N cassette

Video Input

Digital video

SD-SDI (BNC x1)

60i system: Conforms to Serial Digital Interface (270Mb/s), SMPTE 259M 50i system: Conforms to Serial Digital Interface (270Mb/s), ITU-R BT. 656

Analog video

Ref. video (HD/SD)

(BNC x2, loop-through connection)⁻³ 60i system:

HD: bipolar tri-level sync,

0.3 Vp-p, 75 Ω, sync negative

SD: black burst or composite sync,

0.286 Vp-p , 75 Ω_{r} sync negative 50i system:

HD: bipolar tri-level sync, 0.3 Vp-p,

75 Ω , sync negative

SD: black burst or composite sync,

0.3 Vp-p , 75 Ω , sync negative

Component¹² (BNC x3)¹³

60i system:

Y: 1.0 Vp-p, 75 Ω , sync negative R-Y: 0.7 Vp-p, 75 Ω , (75% color bars)

B-Y: 0.7 Vp-p, 75 Ω, (75% color bars)

50i system:

Y: 1.0 Vp-p, 75 Ω , sync negative R-Y: 0.7 Vp-p, 75 Ω , (100% color bars)

B-Y: 0.7 Vp-p, 75 Ω, (100% color bars)

Composite

(BNC x2, loop-through connection)⁻³

1.0 Vp-p, 75 Ω, sync negative

S-Video¹² (BNC x2)¹³

60i system:

Y: 1.0 Vp-p, 75 Ω , sync negative C: 0.286 Vp-p, 75 Ω (at burst level)

50i system:

Y: 1.0 Vp-p, 75 Ω , sync negative C: 0.3 Vp-p, 75 Ω (at burst level)

Audio Input

Digital audio

AES/EBU (BNC x2)

Conforms to AES-3id-1995

Analog audio¹²

Audio (XLR 3-pin female x2)

60i system: +4/0/-6 dBu

high impedance, balanced

50i system: +4/0/-3/-6 dBu, high

impedance, balanced

Video Output

Digital video

HD-SDI (BNC x2)

Conforms to Serial Digital Interface (1.485, 1.485/1.001 Gb/s), SMPTE 292M

SD-SDI (BNC x2)

60i system: Conforms to Serial Digital Interface (270 Mb/s), SMPTE 259M 50i system: Conforms to Serial Digital Interface (270 Mb/s), ITU-R BT.656

Analogue video

Component (HD) (BNC x3)-4

Y: 1.0 Vp-p, 75 Ω , sync negative

R-Y: 0.7 Vp-p, 75 Ω

B-Y: 0.7 Vp-p, 75 Ω

Component (SD) (BNC x3)⁻⁴

60i system:

Y: 1.0 Vp-p, 75 Ω , sync negative R-Y: 0.7 Vp-p, 75 Ω , (75% color bars)

B-Y: 0.7 Vp-p, 75 Ω , (75% color bars) 50i system:

Y: 1.0 Vp-p, 75 Ω , sync negative R-Y: 0.7 Vp-p, 75 Ω , (100% color bars)

B-Y: 0.7 Vp-p, 75 Ω , (100% color bars)

Composite (BNC x1)⁻⁴

1.0 Vp-p, 75 Ω , sync negative

S-Video (BNC x2)⁻⁴

60i system:

Y: 1.0 Vp-p, 75 Ω , sync negative

C: 0.286 Vp-p, 75 Ω (at burst level) 50i system: Y: 1.0 Vp-p, 75 Ω , sync negative C: 0.3 Vp-p, 75 Ω (at burst level) Monitor video (BNC x1) Composite, 1.0 Vp-p, 75 Ω , sync negative, with superimposed text information Audio Output Digital audio AES/EBU (BNC x2) Conforms to AEC-3id-1995 Analog audio Audio (XLR 3-pin male x2) 60i system: +4/0/-6 dBu, 600 kΩ loading, low impedance balanced 50i system: +4/0/-3/-6 dBu, 600 kΩ loading, low impedance, Monitor (RCA pin x1) 60i system: -∞ to -11 dBu ±1 dB (-20 dBFS), 47 k Ω , unbalanced 50i system: -? to -9 dBu ± 1 dB (-18 dBFS), 47 kø, unbalanced Headphones (JM-60 jack x1) 60i system: -∞ to -13 dBu (-20 dBFS), 8Ω , unbalanced 50i system: -∞ to -11 dBu (-18 dBFS), 8 Ω , unbalanced i.LINK Interface i.LINK 6-pin x1" IEEE 1394-based Time Code Input/Output TC In BNC x1 0.5 Vp-p to 18 Vp-p, 3.3 k Ω , unbalanced TC Out BNC x1 2.2 Vp-p ± 3 dB (when 600 Ω terminated), unbalanced General Mass Approx. 6.9 kg (15 lb 3 oz) Dimensions 211(W) x 130 (H) x 420 (D) mm (8 3/8 x 5 1/8 x16 5/8 inches) Power requirement AC 100 V to 240 V, 50/60 Hz Power consumption Approx. 60 W Operating temperature 5 °C to 40 °C (41 °F to 104 °F) Storage temperature -20 °C to +60 °C (-4 °F to +140 °F)

HVBK-1505 - Plug in board



Features

Analog Input Board for HVR-1500 enables analog SD component, composite, or S-video, as well as balanced audio via XLR connectors.

Operating relative humidity Less than 80% Storage relative humidity Less than 90%

^{*1 &}quot;60i" indicates a field rate of 59.94 Hz.

^{*2} The HVBK-1505 Analog Input Board is required.

^{*3} Component, composite, and S-Video inputs share the same BNC connectors.

^{*4} Component, composite, and S-Video outputs share the same connectors.

^{*5} HDV and DV streams share the same i.LINK connector.

HVR-DR60 Hard Disk Recording Unit

Features

•Long recording time of 4.5 hours •Hybrid disk and tape operation for reliable recording and archiving •Direct file access from a computer •SYNCHRO mode •FOLLOW mode •Independent recording •Cache recording •VTR-like controls •Quick review of recordings •Repeat playback •Operational status indication on the HVR-V1 series camcorder's LCD monitor •Tapeless recording •User-free area •HDD smart protection - robust recording and shock resistance •Long operating hours using common camcorder batteries - up to 18 hours with the NP-F970 •Compact and lightweight -81 x 45 x 100 mm in size and 230 g in weight





Supplied Accessories

i.LINK cable (6-pin to 4-pin, 80 cm) (1) Shoe adaptor (1) Operating instructions (1)

Optional Accessories

HVR-A1P HDV Camcorder HVR-A1U HDV Camcorder HVR-Z1P HDV Camcorder DSR-PD170 DVCAM Camcorder HVR-Z1U HDV Camcorder DSR-PD150P DVCAM Camcorder HVR-Z1N HDV Camcorder HVR-Z1C HDV Camcorder HVR-Z1E HDV Camcorder DSR-PD170P DVCAM Camcorder DSR-400L DVCAM Camcorder DSR-400PL DVCAM Camcorder DSR-400PK DVCAM Camcorder DSR-450WSPL DVCAM Camcorder DSR-400K DVCAM Camcorder DSR-450WSL DVCAM Camcorder DSR-390K2 DVCAM Camcorder DSR-390K1 DVCAM Camcorder

Specifications Hard disk drive

Recording capacity 60 GB Disk size 1.8 inches

File system

Interface

i.LINK

IEEE 1394a, 6-pin connector

File format

HDV

MPEG-2-TS (.m2t) DVCAM/DV SP

AVI Tune 1 /

AVI-Type1 (.AVI), RAW-DV (.DV)

Built-in output device

LCD monitor

23.02 x 11.5 mm (picture size), 128 x 64 dots

OS compatibility

OS

Windows(R) 2000 Professional (Service Pack 4), Windows XP Home Edition (Service Pack 2), Windows XP Professional (Service Pack 2), Mac(R) OS X (v10.3)

General

Mass

230 g (8 oz) Power requirements

DC 7.2 V (battery pack),

DC 8.4 V (AC adaptor)

Power consumption

2.7 W (in recording mode with

LCD monitor on)

Operating temperature

0 to 40 °C (32 to 104 °F)

Storage temperature

-20 to +60 °C (-4 to 140 °F)

XDCAM HD

XDCAM HD

PDW-F330L								94
PDW-F350L								96
PDW-F70								98
DDW FOO							4	00

PDW-F330L XDCAM HD Camcorder (without lens)

Features

•MPEG HD (35/25/18 Mb/s) and DVCAM switchable recording •Superb picture and sound quality •12-bit A/D conversion •High-performance digital signal processing 1/2-inch type HD Power HAD EX CCD •Long recording time; MPEG HD(1) at 35 Mb/s: 69 min., 25 Mb/s: 92 min., 18 Mb/s: 122 min., DVCAM: 85 min. •Shock- and dust-resistant disc drive •3.5-inch(12) type colour LCD screen •2/3-inch-type lens can be used via the optional LO-32BMT adaptor(*3). •1.5-inch monochrome viewfinder (DXF-801) is supplied as standard. 2.0-inch monochrome viewfinder (DXF-20W) is also available as an option. •Thumbnail Search operation •Expand function Scene Selection operation • Proxy AV (low-resolution audio and video) Data recording . Metadata recording including essence mark, UMID, Extended UMID •Progressive mode: 29.97P, 25P and native 23.98P •Selectable gamma curves (five types) •Picture cache recording function (up to 12 seconds) •Interval recording function (MPEG HD Only) •Slow shutter function•Turbo gain function (max. 48 dB) • Freeze Mix function • Auto Tracing White Balance (ATW) capability •HD analogue component (*4) output, SD analogue component(*5) output, SD analogue composite output and i.LINK (DV OUT and File Access Mode) as standard • Down-conversion output via the SD component, composite, or i,LINK (DV OUT) connector •Four assignable buttons •Sony WRR-855 Series wireless microphone receiver can be easily attached to the camcorder via the optional CA-WR855 adaptor • "Memory Stick" stores camera setup parameters •Intelligent light system powered from the camcorder's battery •Built-in optical filter wheel: Clear, 1/4ND, 1/16ND, 1/64ND •Camera control from RM-B150/B750 •Simple Remote Commander unit is supplied. •Compact and

(*1) In 2-ch audio mode (*2) Viewable area measured diagonally (*3) In this configuration, the resulting focal length will be 1.37 times the actual focal length of the lens. (*4) 1080/23.98P recordings are output as 1080/59.94i signals via 2-3 pull-down conversion. (*5) HD analogue component output and SD analogue component output share the same connectors

lightweight •Low power consumption of 31 W





Supplied Accessories

DXF-801 1.5-inch monochrome viewfinder (1) Electret condenser stereo microphone (1) Wind screen (1) Lens mount cap (1)

Shoulder belt (1)

Frange focal length adjustment test chart (1)

IR Remote Commander unit (1)

Operation manual (1)

PDZ-1 proxy browsing software (1)

XDCAM proxy viewer software (1)

PFD23A Professional Disc (1)

VCT-U14 Tripod Adaptor (1)

Optional Accessories

Tuner

VCT-U14 Tripod Adaptor PFD23A Disc Professional Disc LO-32BMT 2/3-inch Lens Mount Adaptor DXF-20W 2.0-inch Monochrome Viewfinder DXF-51 5-inch Monochrome Viewfinder BP-GL95 Rechargeable Lithium-ion Battery Pack BP-L80S Rechargeable Lithium-ion Battery Pack BC-L70 Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger BC-L500 Li-ion Battery Charger AC-DN10 AC Adaptor/Charger RM-B150 Remote Control Unit RM-B750 Remote Control Unit CA-WR855 Camera Adaptor WRR-855B UHF Synthesized Diversity Tuner WRR-862B UHF Synthesized Dual Diversity

ECM-674 Electret Condenser Microphone ECM-678 Electret Condenser Microphone LC-H300 Hard Carrying Case LC-DS300SFT Soft Carrying Case LCR-1 Camera Rain Cover VMC-IL46 Cables i.LINK Cable (4-pin to 6-pin) VMC-IL66 Cables i.LINK Cable (6-pin to 6-pin)

XDCAM HD

Specifications Lens: General 12-pin Remote: Mass Approx. 3.8 kg (body, 8 lb 6 oz) 8-pin Power requirements: Light: DC 12 V +5.0 V/-1.0 V 2-pin, DC 12 V, max. 50 W Power consumption DC input: XLR-4-pin (Male) x1 Approx. 31 W Operating temperature: DC output: 4-pin (for wireless microphone receiver), 5 to 40 °C (+32 to +104 °F) DC 12 V (MAX 0.2 A) Storage temperature: -20 to +60 °C (-4 to +140 °F) i I INK IEEE 1394, 6-pin x1, Humidity: 10 to 90% (relative humidity) AV/C (DV stream output) or Continuous operating time: File Access Mode Approx. 160 min. w/BP-GL95 battery Audio performance Frequency response: Recording format 20 Hz to 20 kHz, +0.5 dB/-1.0 dB Video: DVCAM (25 Mb/s) Dynamic range: MPEG HD (MPEG-2 MP@HL) More than 85 dB HQ mode (VBR, maximum bit rate: Distortion: Less than 0.08% (at 1 kHz, reference level) 35 Mb/s) SP mode (CBR 25 Mb/s) Crosstalk: LP mode (VBR, maximum bit rate: Below measurable limit 18 Mb/s) Wow & flutter: Proxy Video: Below measurable limit MPEG-4 Headroom: 20/18/16/12 dB (selectable) Audio: MPEG HD: 4ch or 2ch, 16 bits/48 kHz Camera section Pickup device: DVCAM: 4ch, 16 bits/48 kHz Proxy Audio: 3-chip 1/2-inch type HD Power HAD CCD A-law (4ch / 2ch, 8 bit, 8 kHz) Effective picture elements: Recording/Playback time Approx. 1.56 Mega Pixels (1,440 x 1,080) DVCAM: Optical system: F1.4 prism Approx. 85 min. MPEG HD (HQ mode): Built-in optical filters: 1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND Audio 2ch: approx. 69 min. / Shutter speed Audio 4ch: approx. 66 min. MPEG HD (SP mode): 59.94i: 1/100, 1/125, 1/250, 1/500, 1/1000, Audio 2ch: approx. 92 min. / Audio 4ch: approx. 87 min. 1/2000, ECS, SLS MPEG HD (LP mode): 29.97P: 1/40, 1/60, 1/120, 1/125, 1/250, 1/500, Audio 2ch: approx. 122 min. / 1/1000, 1/2000, ECS, SLS Audio 4ch: approx. 113 min. Signal inputs 1/32, 1/48, 1/96, 1/125, 1/250, 1/500, Genlock video: BNC x1, 1.0 Vp-p, 75 Ω 1/1000, 1/2000, ECS 50i Audio input: XLR-3pin (Female) x2, line / 1/60, 1/125, 1/250, 1/500, 1/1000, mic / mic +48 V selectable 1/2000, ECS, SLS 25P: Mic input: XLR-5-pin (Female, stereo) x1 1/33, 1/50, 1/100, 1/125, 1/250, 1/500, Signal outputs 1/1000, 1/2000, ECS, SLS Slow Shutter (SLS): Component (HD/SD analogue) video output: BNC x3, Y/Pb/Pr, 1.0 Vp-p, 75 Ω 1 to 8, 16, 32, and 64 frame accumulation Composite video output: SONY 1/2-inch type bayonet mount BNC x1, 1.0 Vp-p, 75 Ω Sensitivity (2000 lx, 89.9% reflectance): Earphone: Mini-jack x1 (stereo) F9 (typical) Audio output (CH-1/CH-2): Minimum illumination: Pin-jacks x2, -10 dBu, 47 Ω Approx. 0.004 lx (F1.4 lens, +48 dB Other inputs/outputs turbo gain, with 64 frame accumulation) Timecode input: Gain selection: -3, 0, 3, 6, 9, 12, 18, 24, 30, 36, 42, 48 dB BNC x1 (input or output, selectable), (input: 0.5 to 18 Vp-p, 10 k Ω , Smear level: -120 dB (typical) output: 1.0Vp-p, 75 Ω) Timecode output: S/N ratio BNC x1 (input or output, selectable), 54 dB (typical, HD output) (input: 0.5 to 18 Vp-p, 10 k Ω , Modulation depth at 21 MHz: output: 1.0 Vp-p, 75 Ω) 45% (typical) Geometric distortion:

1.5-inch type monochrome Indicators: REC (x2), TALLY, BATT, SHUTTER, GAIN UP **Built-in LCD monitor** 3.5-inch type colour LCD monitor

Viewfinder

CRT:

Below measurable level (w/o lens)

PDW-F350L XDCAM HD Camcorder (without lens)

Features

•MPEG HD (35/25/18 Mb/s) and DVCAM switchable recording •Superb picture and sound quality •12-bit A/D conversion •High-performance digital signal processing •1/2-inch type HD Power HAD EX CCD •Long recording time; MPEG HD(1) at 35 Mb/s: 69 min., 25 Mb/s: 92 min., 18 Mb/s: 122 min., DVCAM: 85 min. •Shock- and dustresistant disc drive •3.5-inch(12) type colour LCD screen •2/3-inch-type lens can be used via the optional LO-32BMT adaptor('3). •2.0-inch monochrome viewfinder (DXF-20W) is supplied as standard. •Thumbnail Search operation •Expand function •Scene Selection operation •Proxy AV (low-resolution audio and video) Data recording Metadata recording including essence mark, UMID, Extended UMID • Progressive mode: 29.97P, 25P and native 23.98P •Slow & Quick Motion function (MPEG HD Only) •Selectable gamma curves (five types) Picture cache recording function (up to 12 seconds) •Interval recording function (MPEG HD Only) •Slow shutter function •Turbo gain function (max. 48 dB) Freeze Mix function • Auto Tracing White Balance (ATW) capability •HD-SDI(*4) output, SD analogue composite output and i.LINK (DV OUT and File Access Mode) as standard •Down-conversion output via the SD composite. or i.LINK (DV OUT) connector •Four assignable buttons Sonv WRR-855 Series wireless microphone receiver can be easily attached to the camcorder via the optional CA-WR855 adaptor • "Memory Stick" stores camera setup parameters •Intelligent light system powered from the camcorder's battery •Built-in optical filter wheel: Clear, 1/4ND, 1/16ND, 1/64ND •Camera control from RM-B150/B750 •Simple Remote Commander unit is supplied •Compact and lightweight •Low power consumption of 32 W





(*1) In 2-ch audio mode (*2) Viewable area measured diagonally (*3) In this configuration, the resulting focal length will be 1.37 times the actual focal length of the lens. (*4) 1080/23.98P recordings are output as 1080/59.94i signals via 2-3 pull-down conversion.

Supplied Accessories

VCT-U14 Tripod Adaptor (1)

DXF-20W 2.0-inch Monochrome Viewfinder (1)
Electret condenser stereo microphone (1)
Wind screen (1)
Lens mount cap (1)
Shoulder belt (1)
Frange focal length adjustment test chart (1)
IR Remote Commander unit (1)
Operation manual (1)
PDZ-1 proxy browsing software (1)
XDCAM proxy viewer software (1)
PFD23A Professional Disc (1)

Optional Accessories

DXF-20W 2.0-inch Monochrome Viewfinder VCT-U14 Tripod Adaptor PFD23A Disc Professional Disc LO-32BMT 2/3-inch Lens Mount Adaptor DXF-51 5-inch Monochrome Viewfinder BP-GL95 Rechargeable Lithium-ion Battery Pack BC-L70 Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger BC-L500 Li-ion Battery Charger AC-DN10 AC Adaptor/Charger RM-B150 Remote Control Unit RM-B750 Remote Control Unit CA-WR855 Camera Adaptor WRR-855B UHF Synthesized Diversity Tuner

WRR-862B UHF Synthesized Dual Diversity Tuner

ECM-674 Electret Condenser Microphone
ECM-678 Electret Condenser Microphone
LC-H300 Hard Carrying Case
LC-DS300SFT Soft Carrying Case
LCR-1 Camera Rain Cover
VMC-IL46 Cables i.LINK Cable (4-pin to 6-pin)
VMC-IL66 Cables i.LINK Cable (6-pin to 6-pin)

XDCAM HD

XLR-5-pin (Male, stereo) x1

BNC x1, 0.5 to 18 Vp-p, 10 Ω

BNC x1, 1.0 Vp-p, 75 Ω

Other inputs/outputs

Timecode input:

Timecode output:

Specifications Gain selection: Lens: General 12-pin -3, 0, 3, 6, 9, 12, 18, 24, 30, 36, 42, 48 dB Remote: Smear level: Mass Approx. 3.85 kg (body, 8 lb 7 oz) niq-8 -120 dB (typical) Power requirements: Light: S/N ratio: 54 dB (typical, HD output) DC 12 V +5.0 V/-1.0 V 2-pin, DC 12 V, max. 50 W Power consumption: DC input: Modulation depth at: 21 MHz Approx. 31 W (while recording, with XLR-4-pin (Male) x1 45% (typical) viewfinder, colour LCD ON, manual lens) DC output: Geometric distortion: 4-pin (for wireless microphone receiver), Below measurable level (w/o lens) Operating temperature: DC 12 V (MAX 0.2 A) -5 to 40 °C (+32 to +104 °F) Viewfinder Storage temperature: i I INK CRT IEEE 1394, 6-pin x1, AV/C 2.0-inch type monochrome -20 to +60 °C (-4 to +140 °F) Humidity: (DV stream output) or File Access Mode Indicators: 10 to 90% (relative humidity) Audio performance REC (x2), TALLY, BATT, SHUTTER, Continuous operating time: Frequency response: GAIN UP Approx. 160 min. w/BP-GL95 battery 20 Hz to 20 kHz, +0.5 dB/-1.0 dB **Built-in LCD monitor** Recording format Dynamic range 3.5-inch type colour LCD monitor Video: More than 85 dB DVCAM (25 Mb/s) Distortion: Less than 0.08% (at 1 kHz, reference level) MPEG HD (MPEG-2 MP@HL) HQ mode (VBR, maximum bit rate: Crosstalk Below measurable limit 35 Mb/s) Wow & flutter: SP mode (CBR 25 Mb/s) LP mode (VBR, maximum bit rate: Below measurable limit 18 Mb/s) Headroom: Proxy Video: 20/18/16/12 dB (selectable) MPEG-4 Camera section Audio: Pickup device: MPEG HD: 4ch or 2ch, 16 bits/48 kHz 3-chip 1/2-inch type HD Power HAD CCD DVCAM: 4ch, 16 bits/48 kHz Effective picture elements: Approx. 1.56 Mega Pixels (1,440 x 1,080) Proxy Audio: A-law (4ch / 2ch, 8 bit, 8 kHz) Optical system: F1.4 prism Recording/Playback time Built-in optical filters: DVCAM: Approx. 85 min. 1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND Shutter speed MPEG HD (HQ mode): Audio 2ch: approx. 69 min. / 59.94i: Audio 4ch: approx. 66 min. 1/100, 1/125, 1/250, 1/500 ,1/1000, 1/2000, ECS, SLS MPEG HD (SP mode): Audio 2ch: approx. 92 min. / Audio 4ch: approx. 87 min. 1/40, 1/60, 1/120, 1/125, 1/250, 1/500, 1/1000, 1/2000, ECS, SLS MPEG HD (LP mode): 23.98P: Audio 2ch: approx. 122 min. / 1/32, 1/48, 1/96, 1/125, 1/250, 1/500, Audio 4ch: approx. 113 min. Signal inputs 1/1000, 1/2000, ECS 50i Genlock video: 1/60, 1/125, 1/250, 1/500, 1/1000, BNC x1, 1.0 Vp-p, 75 Ω Audio input: 1/2000, ECS, SLS 25P-XLR-3pin (Female) x2, line / mic / 1/33, 1/50, 1/100, 1/125, 1/250, 1/500, mic +48 V selectable Mic input: 1/1000, 1/2000, ECS, SLS Slow Shutter (SLS): "Slow & Quick Motion XLR-5-pin (Female, stereo) x1 Signal outputs function (*MPEG HD mode only)" 1 to 8, 16, 32, and 64 frame accumulation HD-SDI output: BNC x1, SMPTE 292M (w/embedded 23 98P/29 97P Selectable from 4 to 60 frame/sec audio, MPEG HD mode only) as recording frame rate Composite video output: BNC x1, 1.0 Vp-p, 75 Ω 25P: Selectable from 4 to 50 frame/sec Earphone: as recording frame rate Mini-jack x1 (stereo) Audio output (CH-1/CH-2):

SONY 1/2-inch type bayonet mount

Approx. 0.004 lx (F1.4 lens, +48 dB

turbo gain, with 64 frame accumulation)

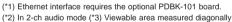
Sensitivity (2000 lx, 89.9% reflectance):

F9 (typical)
Minimum illumination:

PDW-F70 XDCAM HD Recording Deck

Features

•MPEG HD recording at 35, 25 and 18 Mb/s via HD-SDI, HD analogue component and RGB input (HD analogue component and RGB input requires the optional PDBK-103 board) •Also records MXF files (in both MPEG HD and DVCAM formats) via i.LINK (File Access Mode) or Ethernet(*1) interface. •Playback of MPEG HD and DVCAM material •Proxy AV (low-resolution audio and video) Data recording •Long recording/playback time: MPEG HD(12) at 35 Mb/s: 69 min., 25 Mb/s: 92 min., 18 Mb/s: 122 min. •Up-conversion recording (require the optional PDBK-104 board): Input from SD-SDI or SD composite connectors can be recorded in the MPEG HD format. • Down-conversion output: MPEG HD playback can be converted to SD signals and output via the SD-SDI, SD composite and i.LINK (DV OUT) connectors. •Up-conversion output: DVCAM playback can be converted to 1080i HD signals and output via HD connectors. •Thumbnail Search operation •Expand function •Scene Selection operation •Search speed (in colour) - JOG: -1 ~ +2 times normal speed, Variable: -1 ~ +2 times normal speed, Shuttle: ±20 times normal speed •3.5-inch(*3) type colour LCD screen •Repeat playback function •Simple Remote Commander unit is supplied. •Gigabit Ethernet capability (requires the optional PDBK-101 board) •Input and output of 25 Mb/s HDV stream (MPEG-2 TS) (requires the optional PDBK-102 board) • Ability to write EDL data (Clip List) back onto disc •Metadata recording •A wide variety of video interfaces including HD-SDI I/O, HD analogue component output, RGB output, SD-SDI output, SD analogue composite output, i.LINK (DV OUT and File Access Mode) as standard . Compact and lightweight design; can be placed either horizontally or vertically Compatible with the PDJ-A640 XDCAM cart



Supplied Accessories

Operation manual (1)
Vertical installation stand (1)
IR Remote Commander unit (1)
PDZ-1 proxy browsing software (1)
XDCAM proxy viewer software (1)

Optional Accessories

PFD23A Disc Professional Disc
PDBK-101 Network Board
PDBK-102 MPEG-2 TS In/Out Board
PDBK-103 HD Analogue Input Board
PDBK-104 SD Input Upconverter Board
PDBK-A640 Cart Mount Kit
RM-280 Editing Controller
RCC-G Cables 9-pin/9-pin Cable
VMC-IL46 Cables i.LINK Cable (4-pin to 6-pin)
VMC-IL66 Cables i.LINK Cable (6-pin to 6-pin)





XDCAM HD

Specifications Analogue HD component input General (option: PDBK-103): Power requirements: BNC x4, Y/Pb/Pr/(Sync) or G/B/R/(Sync) 100 V to 240 V AC, 50/60 Hz HD-SDI input: Power consumption: BNCx1, SMPTE 292M SD-SDI input (option: PDBK-104): 70 W Operating temperature: BNCx1, SMPTE 259M +5 to +40 °C (+41 to +104 °F) Analogue audio input: Storage temperature: XLR x2 (channel selectable), -20 to +60 °C (-4 to +140 °F) +4/0/-3/-6 dBu (selectable), Humidity: 10 k Ω , balanced 20 to 90% (relative humidity) Digital audio input: AES/EBU, BNCx2, 4 channels Mass: 7.2 kg Timecode input: Dimensions (W x H x D): BNCx1, SMPTE Time code 307 x 100 x 411 mm Signal outputs Analogue composite video output: (12 1/8 x 4 x 16 1/2 inches) BNCx1, (1.0 Vp-p/75 Ω/sync negative), Recording format Video: RCA-pinx1,(1.0 Vp-p/75 Ω/sync negative) MPEG HD (MPEG-2 MP@HL): HQ mode Monitor output: (VBR, maximum bit rate: 35 Mb/s), D-sub 15-pin (G/B/R or Y/Pb/Pr) SP mode (CBR, 25 Mb/s), LP mode Built-in display: 3.5-inch type colour LCD monitor (VBR, maximum bit rate: 18 Mb/s) HD-SDI output: Proxy Video: MPEG-4 BNCx2, SMPTE 292M Audio: SD-SDI output: BNCx1, SMPTE 259M MPEG HD: 4 ch or 2 ch, 16 bits/48 kHz Proxy Audio: Analogue audio output: A-law (4 ch / 2 ch, 8 bit, 8 kHz) XLRx2 (channel selectable), +4/0/-3/-6 dBu (selectable), Playback format Video: 600Ω load, balanced MPEG HD (MPEG-2 MP@HL): HQ mode Audio monitor output: RCAx2 (L, R, Mix), -6dBu, (VBR, maximum bit rate: 35 Mb/s), 47 kΩ, unbalanced SP mode (CBR, 25 Mb/s), LP mode (VBR, maximum bit rate: 18 Mb/s) Headphone output: Proxy Video: Stereo phone jack, -14dBu, 8 Ω , unbalanced MPEG-4 Audio: Digital audio output: MPEG HD: 4 ch or 2 ch, 16 bits/48 kHz AES/EBU, BNCx2, 4 channels DVCAM: 4 ch, 16 bit/48 kHz Timecode output: Proxy Audio: BNCx1, SMPTE Timecode A-law (4 ch / 2 ch, 8 bit, 8 kHz) Other inputs/outputs Recording/playback time i.LINK: MPEG HD (HQ mode): IEEE1394, 6-pin x1, AV/C (DV stream output) or Audio 2ch: approx. 69 min., Audio 4ch: approx. 66 min. File Access Mode MPEG HD (SP mode): i.LINK(HDV 1080i) (option: PDBK-102): Audio 2ch: approx. 92 min., IEEE1394, 6-pin x1, HDV 1080i IN/OUT Audio 4ch: approx. 87 min. Ethernet (option: PDBK-101): 1000Base-T (RJ-45) MPEG HD (LP mode): RS-422A: Audio 2ch : approx. 122 min., Audio 4ch: approx. 113 min. D-sub 9-pin x 1 DVCAM: RS-232C: D-sub 9-pin x 1 Approx. 85 min. (playback only) Search speed (in colour) CONTROL: Mini-jack 4-pin Jog mode: -1 ~ +2 times normal speed Video performance Variable mode: Sampling frequency: -1 ~ +2 times normal speed Y: 74.25MHz, R-Y/B-Y: 37.125MHz Shuttle mode: Quantization: 8 bits/sample ±20 times normal speed

Signal inputs

BNCx1, RS-170M

Analogue reference input:
BNCx2 (including loop through),
HD Tri-level sync or SD composite sync
(0.3 Vp-p/75 Ω/sync negative)
Analogue composite input
(option: PDBK-104):

PDW-F30 XDCAM HD Viewing Deck

Features

- •Playback of MPEG HD and DVCAM material •Records MXF files (in both MPEG HD and DVCAM formats) via i.LINK (File Access Mode) or Ethernet(*1) interface. •Proxy AV (low-resolution audio and video) Data recording •Long playback time; MPEG HD(2) at 35 Mb/s: 69 min., 25 Mb/s: 92 min., 18 Mb/s: 122 min. • Downconversion output: MPEG HD playback can be converted to SD signals and output via the SD-SDI, SD composite and i.LINK (DV OUT) connectors. •Up-conversion output: DVCAM playback can be converted to 1080i HD signals and output via HD connectors. •Thumbnail Search operation •Expand function •Scene Selection operation •Search speed (in colour) - JOG: -1 ~ +2 times normal speed, Variable: -1 ~ +2 times normal speed, Shuttle: ±20 times normal speed •3.5-inch(*3) type colour LCD screen •Repeat playback function •Simple Remote Commander unit is supplied. •Gigabit Ethernet capability (requires the optional PDBK-101 board) •Input and output of 25 Mb/s HDV stream (MPEG-2 TS) (requires the optional PDBK-102 board) • Ability to write EDL data (Clip List) back onto disc •Metadata recording •Compact and lightweight design; can be placed either horizontally or vertically vertically •Compatible with the PDJ-A640
- (*1) Ethernet interface requires the optional PDBK-101 board.
- (*2) In 2-ch audio mode (*3) Viewable area measured diagonally





Supplied Accessories

XDCAM cart

Operation manual (1)
Vertical installation stand (1)
IR Remote Commander unit (1)
PDZ-1 proxy browsing software (1)
XDCAM proxy viewer software (1)

Optional Accessories

PFD23A Disc Professional Disc PDBK-101 Network Board PDBK-102 MPEG-2 TS In/Out Board RM-280 Editing Controller RCC-G Cables 9-pin/9-pin Cable VMC-IL46 Cables i.LINK Cable (4-pin to 6-pin) VMC-IL66 Cables i.LINK Cable (6-pin to 6-pin)

XDCAM HD

Specifications General Power requirements: 100 V to 240 V AC, 50/60 Hz Power consumption: 70 W Operating temperature: +5 to +40 °C (+41 to +104 °F) Storage temperature: -20 to +60 °C (-4 to +140 °F) Humidity: 20 to 90% (relative humidity) Mass: 7.2 kg Dimensions (W x H x D): 307 x 100 x 411 mm (12 1/8 x 4 x 16 1/2 inches) Recording format Proxy Video: MPEG-4 Proxy Audio: A-law (4 ch / 2 ch, 8 bit, 8 kHz) Playback format Video: MPEG HD (MPEG-2 MP@HL): HQ mode (VBR, maximum bit rate: 35 Mb/s), SP mode (CBR, 25 Mb/s), LP mode (VBR, maximum bit rate : 18 Mb/s) Proxy Video: MPEG-4 MPEG HD: 4 ch or 2 ch, 16 bits/48 kHz, DVCAM: 4 ch, 16 bit/48 kHz Proxy Audio: A-law (4 ch / 2 ch, 8 bit, 8 kHz) Recording/playback time MPEG HD (HQ mode): Audio 2ch: approx. 69 min., Audio 4ch: approx. 66 min. MPEG HD (SP mode): Audio 2ch: approx. 92 min., Audio 4ch: approx. 87 min. MPEG HD (LP mode): Audio 2ch: approx. 122 min., Audio 4ch: approx. 113 min. DVCAM: Approx. 85 min. (playback only) Search speed (in colour) Jog mode: -1 ~ +2 times normal speed Variable mode: -1 ~ +2 times normal speed Shuttle mode: ±20 times normal speed Signal outputs Analogue composite video output: BNCx1, (1.0 Vp-p/75 Ω/sync negative), RCA-pinx1,(1.0 Vp-p/75 Ω/sync negative) Monitor output D-sub 15-pin (G/B/R or Y/Pb/Pr) Built-in display: 3.5-inch type colour LCD monitor HD-SDI output: BNCx2, SMPTE 292M SD-SDI output:

BNCx1, SMPTE 259M Analogue audio output: XLRx2 (channel selectable), +4/0/-3/-6 dBu (selectable), 600 Ω load, balanced

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47 kΩ, unbalanced
Headphone output:
  Stereo phone jack, -14dBu,
  8 \Omega, unbalanced
Digital audio output:
  AES/EBU, BNCx2, 4 channels
Timecode output:
  BNCx1, SMPTE Timecode
Other inputs/outputs
i I INK
  IEEE1394, 6-pin x1,
  AV/C (DV stream output) or
  File Access Mode
i.LINK (HDV 1080i) (option: PDBK-102):
   IEEE1394, 6-pin x1, HDV 1080i IN/OUT
Ethernet (option: PDBK-101):
   1000Base-T (RJ-45)
RS-422A
  D-sub 9-pin x 1
RS-232C:
  D-sub 9-pin x 1
Video performance
Sampling frequency:
  Y: 74.25MHz, R-Y/B-Y: 37.125MHz
Quantization:
  8 bits/sample
Analogue composite output (DV):
  Frequency response: 0 to 4.2 MHz
   +1.0/-3.0 dB (525), 0 to 4.8 MHz
   +1.0/-3.0 dB (625), S/N(Y): 53 dB or more,
  Y/C delay (K2T): ±25 ns or less,
   K-factor(K2T): 2% or less
Processor adjustment range
Video level:
   +3 dB
Chroma level:
   ±3 dB
Set up/black level:
  ±30 IRE
Chroma phase:
   ±30 deg
Audio performance
Sampling frequency:
   48 kHz
Quantization
  16 bits/2 channels or 16 bits / 4 channels
Frequency response:
  20 Hz to 20 kHz +0.5/-1.0 dB
  (0 dB at 1 kHz)
Dynamic range
  90 dB or more
Distortion
  0.05% or less (at 1 kHz)
Headroom:
  20/18/16/12 dB (selectable)
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Audio monitor output:

RCAx2 (L, R, Mix), -6dBu,

SONY

HDCAM

HDW-F900R104
HDW-790P106
HDW-730S108
HDW-2000
HDW-D2000 112
HDW-M2000P114
HDW-M2100P116
HDW-1800
HDW-D1800
HDW-S280/1122
HKJ-101 124
J-H1
J-H3

HDW-F900R HDCAM Camcorder

Features

•CineAlta camcorder •Superb picture quality of the HDCAM format •3-chip 2/3-type FIT CCD with 2.2 million pixels •12-bit A/D converter for enriched picture tonal reproduction •High-quality audio recording •Even with the viewfinder, battery, cassette, microphone, and a small variable or fixed-focal length lens, the total weight is only approximately 5.4 kg (12 lb). •Dual HD-SDI outputs as standard •Two independent filter wheels: ND and CC •Electronic shutter •Gamma Balance function: RGB Gamma Balance and Black Gamma •HyperGamma function •User Gamma Capability for quickly setup and loading the gamma curves being edited by the CVP File Editor gamma creation software •Multi-matrix function •TruEye function •Stop-motion and time-lapse recording with the optional HKDW-703 Picture Cache Board ·Assignable buttons ·Adjustable shoulder pad ·LCD status panel for easy verification of camcorder's status • Equipped with microphone volume protection cover · A wide variety of optional accessories from Sony and

film-related manufactures for digital cinematography





Supplied Accessories

Microphone, Super cardioid directional, external power supply type (1) XLR connector cover (4) Shoulder strap (1) Operation guide (1) Operation manual (1) Operation manual CD-ROM (1)

Optional Accessories VCT-14, Tripod Adapter HDVF-C35W, HD LCD Colour Viewfinder (does not include microphone holder) HDVF-20A, CRT B/W Viewfinder (includes microphone holder) BP-GL65/GL95/L60S/L80S, Info Li-Ion Battery BC-M150/L70, BC-L500 Battery Charger AC-DN10, AC Adapter BCT-6HD/12HD/22HD/32HD/40HD, **HDCAM Tape Cassette** BKW-401, Viewfinder Rotation Bracket RM-B750. Remote Control Unit RM-B150. Remote Control Unit WRR-855B, Slot-in Wireless Diversity Receiver WRR-862B, Dual Diversity Microphone Receiver A-8278-057-A, Mounting Bracket for WRR-862B ECM-674/678, Shotgun Microphone CAC-12, Microphone Holder WRT-8B. Belt Pack Transmitter WRT-847B, UHF Handheld Microphone ECM-88B, Lavalier Microphone LC-DN7, Hard Carrying Case LC-DS300SFT, Soft Carrying Case Maintenance Manual HKDW-702, Down Converter Board HKDW-703 Picture Cache Board HKDW-902R, 2-3 Pull-down/Down Converter Board HKDW-905R, Slow Shutter/Image Inverter Board Part No. 1-547-341-11, Fog-proof Filter

Part No. 3-174-685-01, 1/8 ND Filter Part No. 3-174-683-01, 1/32 ND Filter Part No. 3-174-682-01, Cross Filter

Part No. 3-186-442-01, Mounting Ring Part No. A-8314-798-A, Viewfinder Eyepiece (High performance x3, with soft cushion) Part No. A-8262-537-A, Viewfinder Eyepiece (High magnification) Part No. A-8262-538-A, Viewfinder Eyepiece (Low magnification) Part No. A-8267-737-A, Viewfinder Eyepiece (Standard magnification with special compensation

The HDW-F900R HDCAM camcorder is supplied without a viewfinder. Either an HDVF-C35W HD Colour LCD viewfinderor an HDVF-20A monochrome viewfinder can be used

Specifications General

Mass

5.4 kg (11 lb. 14 oz) with typical ENG lens, cassette and BP-GL95 Battery

Power requirement

DC 12 V (+5.0 V/-1.0 V)

Power consumption

38 W (With 12 V power supply, REC mode, with HDVF-20A)

Operating temperature

0 °C to +40 °C (+32 °F to +104 °F)

Storage temperature

-20 °C to +60 °C (-4 °F to +140 °F)

Operating humidity

25 % to 85 % (Relative humidity)

Continuous operating time

110 min (With BP-GL95)

Inputs/outputs

Genlock video input

BNC, 1.0 Vp-p 75 Ω

Time code input

BNC, 0.5 V to 18 Vp-p, 10 $k\Omega$

Audio CH1/CH2 input

XLR-3-pin type (Female),

-60 dBu/-50 dBu /-40 dBu/

+4 dBu/AES/EBU

MIC input

XLR-5-pin type (Female),

-60 dBu/-50 dBu /-40 dBu

LPF 14 kHz: -8 dB

Test output

BNC (1), 1.0 Vp-p, 75 Ω , unbalanced

HD-SDI output

BNC (2), 0.8 Vp-p, unbalanced

Audio output

XLR-5-pin type (Male), 0 dBm

Time code output

BNC, 1.0 Vp-p, 75 Ω

Earphone

Mini-jack, 8 $\Omega_{\mbox{\tiny I}}$ - ∞ to -18 dBs variable DC input

XLR-4-pin type (Male), 11 to 17 V DC

DC output

11 to 17 V DC, Max. 100 mA

Lens

12-pin Remote

8-pin

VTR section

Recording format

HDCAM

Tape speed

Approx. 77.4 mm/s (24P mode)

Playback/Recording time

40 min (59.94i, 29.97P), 48 min (50i,25P), 50 min (24P, 23.98P), with BCT-40HD

Fast forward/rewind time

5 min with BCT-40HD

Recommended tape

Sony BCT-6HD/12HD/22HD/32HD/40HD

Sampling frequency

Y: 74.25 MHz, PB/PR: 37.125 MHz

Quantization

12 bit/sample of input-output signals (8 bit sample for internal compression

process)

Error correction

Reed-Solomon code

Error concealment

Adaptive three dimensional

Audio performance

(with standard HDCAM playback machine)

Frequency response

20 Hz to 20 kHz, +0.5 dB/-0.8 dB

Dynamic range

More than 85 dB (Emphasis ON)

Distortion

0.08 % Max.

Cross talk

-70 dB

Wow & flutter

Below measurable limit

Camera section

Pickup device

3-chip 2/3-type FIT CCD

Picture elements (H x V)

1920 x 1080

Optical system

F1.4 prism system

Built-in filters

A: 5600 K B: 3200 K C: 4300 K D: 6300 K 1: Clear 2: 1/4 ND 3: 1/16 ND 4: 1/64 ND

Shutter speed (1080/24P mode)

1/32, 1/48, 1/50, 1/60, 1/96, 1/125, 1/250,

1/500, 1/1000 (s)

Clear scan

(ECS) 24 to 7000 Hz (Minimum setting

depends on frame rate selected)

Lens mount

Special bayonet mount

Sensitivity

f10.0 at 2000 lux, 89.9 % reflective,

At 24 fps, with a 1/48-second shutter speed (equivalent to a 180° film camera

shutter setting), the exposure index is approximately equivalent to 300 ISO.

HDW-790P HDCAM Camcorder

Features

•Superb picture quality of the HDCAM format •3-chip 2/3-type FIT CCD with 2.2 million pixels •Switchable between 1080/50i and 1080/25PsF modes •12-bit A/D converter for enriched picture tonal reproduction ·High-quality audio recording ·Lightweight, with viewfinder, battery, cassette, microphone, and a small variable or fixed-focal length lens, the total weight is approximately 5.4 kg (12 lb) • Dual HD-SDI outputs as standard •Two independent filter wheels: ND and CC •Electronic shutter •Gamma Balance function: RGB Gamma Balance and Black Gamma •HyperGamma function •Multi-matrix function •TruEye function •Stop-motion and time-lapse recording with the optional HKDW-703 Picture Cache Board • Assignable buttons ·Adjustable shoulder pad ·LCD status panel for easy verification of camcorder's status • Equipped with microphone volume protection cover •A wide variety of optional accessories from Sony and film-related manufactures for digital cinematography





The HDW-790P HDCAM camcorder is supplied without a viewfinder. Either an HDVF-C35W HD Colour LCD viewfinder or an HDVF-20A monochrome viewfinder can be used.

Supplied Accessories

Stereo microphone (super cardioid directional, external power supply type) (1)
Shoulder Strap (1)
Lens mount securing rubber (1)
Operation Manual (1)

Optional Accessories HDVF-C35W Multi-format HD Colour LCD Viewfinder

BP-GL65 Rechargeable Lithium-ion Battery Pack BP-GL95 Rechargeable Lithium-ion Battery Pack BP-L60S Rechargeable Lithium Ion Battery Pack BP-L80S Rechargeable Lithium-ion Battery Pack AC-DN10 AC Adaptor/Charger AC-DN2B AC Adaptor RM-B750 Remote Control Unit BC-M150 Ni-MH & Li-ion Battery Charger BC-L500 Li-ion Battery Charger CAC-12 Microphone Holder HKDW-702/1 Down Converter Board HKDW-703/1 Picture Cache Board HKDW-905R Slow Shutter/Image Inverter Board BKW-401 Viewfinder Rotation Bracket RM-B150 Remote Control Unit VCT-14 Tripod Adaptor ECM-678 Shotgun Microphone WRT-847 UHF Handheld Transmitter WRR-855B UHF Synthesized Diversity Receiver WRT-8B UHF Synthesized Diversity Transmitter MSA-A "Memory Stick" IC Memory Media BKDW-701 Servo Filter Unit LC-DN7 Carry Case

Specifications

General

Power voltage:

12 +5.0/-1.0

Power consumption:

38 W (With 12 V power supply,

REC mode, with HDVF-20A)

Operating temperature:

0 °C to 40 °C (32 °F to 104 °F)

Operating humidity:

25% to 85% (relative humidity)

Storage temperature:

-20 °C to 60 °C (-4 °F to 140 °F)

Mass:

5.4 kg (11 lb 14 oz) with typical ENG lens, BCT-40HD cassette, viewfinder,

microphone and BP-GL95 battery

Video Camera Section

Imager:

2/3-inch type FIT CCD with 2,200,000

Effective picture elements:

1920 (H) x 1080 (V)

Imager Configuration:

RGB 3-CCD

Spectral system:

F1.4 prism system (with quartz filter)

Built-in filters

CC filter:

A: Cross filter

B: 3200K

C: 4300K

D: 6300K

ND filter:

1: Clear

2: 1/4 ND 3: 1/16 ND

4: 1/64 ND

Lens mount:

Special bayonet type

Sensitivity:

F10 (Typical) 89.9% reflection chart, 2000 lx

Minimum Illumination:

0.0024 lx (F1.4 lens, +42 dB gain,

with 64-frame accumulation)

Smear Level:

-135 dB (typical)

S/N ratio:

54 dB (typical)

Shutter speed:

1/125, 1/250, 1/500, 1/1000, 1/2000 (s) (at 50i format) 1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 (s) (at 25PsF format)

VTR Section

Usable cassette tapes:

Sony BCT-6HD/12HD/22HD/32HD/40HD

Tape speed:

Approx. 80.7 mm/s (at 50i/25PsF format)

Record/playback time:

Max. 48 min. with BCT-40HD

Fast forward time:

Approx. 5 minutes (using BCT-40HD video cassette)

Rewind time:

Approx. 5 minutes (using BCT-40HD video

cassette)

Continuous recording time:

Approx.110 minutes

(using BP-GL95 Battery Pack)

Digital video signal

Sampling frequency:

Y: 74.25 MHz. PB/PR: 37.125 MHz

Quantization:

10 bits/sample (8 bits/sample for

compression processing)

Compression:

Coefficient recording system

Channel coding:

S-NRZI PR-IV

Error correction:

Reed-Solomon code

Error concealment:

Adaptive three dimensional

Audio (with standard playback machine)

Frequency response:

20 Hz to 20 kHz +0.5 dB/-0.8 dB

Dynamic range:

85 dB min, (emphasis ON)

Distortion:

0.08% max

Cross talk:

-70 dB max

Wow and flutter

Below measurable limit

Input/output connectors

Signal inputs:

Audio IN CH-1/CH-2 (XLR, 3-pin, female):

-60 dBu/+4 dBu (0 dBu = 0.775 Vrms)

MIC IN (XLR, 5-pin, female):

-60 dBu/-50 dBu/-40 dBu (LPF ON)

GENLOCK IN (BNC type):

1.0 Vp-p, 75 Ω TC IN (BNC type):

0.5 V to 18 Vp-p, 10 k Ω

Signal outputs

TEST OUT (BNC type):

1.0 Vp-p, 75 Ω , unbalanced

VBS/SDI OUT ((2 x BNC type) (only when the

HKDW-702/1 is installed):

75 Ω, unbalanced, VBS OUT: 1.0 Vp-p, SDI

OUT: 0.8 Vp-p

HD SDI OUT (2 x BNC type):

0.8 Vp-p, 75 Ω , unbalanced AUDIO OUT (XLR, 5-pin, male):

0 dBm

TC OUT (BNC type):

1.0 Vp-p, 75 Ω

EARPHONE (minijack)

8 Ω , - ∞ to -18 dBs variable

Others

DC IN (XLR, 4-pin, male):

11 to 17 V DC

DC OUT (4-pin, female): 11 to 17 V DC, maximum current 0.1A

LENS (12-pin)

REMOTE (8-pin)

HDW-730S HDCAM Camcorder

The HDW-730S is an HDCAM camcorder that offers 1080/50i or 1080/59.94i acquisition. Equipped with a number of unique features to powerfully assist even the harshest shooting environments, plus the outstanding picture performance that all HDCAM camcorders provide, the HDW-730S is the ideal camcorder to support migration to the next generation of ENG, EFP, and general HD acquisition applications.

Features

•2.2 million-pixel 2/3-inch type IT Power HAD CCD
•Ultimate Sensitivity (with the HKDW-705 Slow Shutter
Board) •Reduced risk of missing scenes (with the
HKDW-703/1 Picture Cache Board) •Long Recording
Time •Rugged and Ergonomic Design •Versatile
Monitoring Capability •Shot Mark Handling •Quick Setup
•Single Optical Filter Wheel • New version 2 camcorder
software increases latitude to give a more film-like
dynamic transfer characteristic •Remote REC start of
HDW-S280/1 via HD-SDI (with version 2 software)



Supplied Accessories

HDVF-20A 2-inch Type HD B/W CRT Viewfinder (1) Shoulder Strap (1) Monaural microphone, Ultra directional (1) Lens mount securing rubber (1) Operation Manual (1)

Optional Accessories

HDVF-C35W HD Colour LCD Viewfinder BP-GL65 Rechargeable Lithium-ion Battery Pack BP-GL95 Rechargeable Lithium-ion Battery Pack BP-L60S Rechargeable Lithium Ion Battery Pack BP-L80S Rechargeable Lithium-ion Battery Pack AC-DN2B AC Adaptor AC-DN10 AC Adaptor/Charger RM-B750 Remote Control Unit HKDW-705 Slow Shutter Board BC-M150 Ni-MH & Li-ion Battery Charger BC-L500 Li-ion Battery Charger HKDW-702/1 Down Converter Board HKDW-703/1 Picture Cache Board BKW-401 Viewfinder Rotation Bracket RM-B150 Remote Control Unit VCT-14 Tripod Adaptor WRR-855B UHF Synthesized Diversity Receiver WRT-8B UHF Synthesized Diversity Transmitter WRT-847 UHF Handheld Transmitter LMD-9050 Colour LCD Monitor MSA-A "Memory Stick" IC Memory Media LC-DN7 Carry Case ECM-678 Shotgun Microphone

Recommended tape:

Approx. 5 min. with BCT-40HD

Specifications Digital video performance General Sampling frequency: Y: 74.25 MHz. PB/PR: 37.125 MHz Mass Approx. 3.7 kg (8 lb 3 oz): Main Body, Quantization: Approx. 5.3 kg (11 lb 14 oz) (with MIC, VF, 10 bits/sample (8 bits/sample for compression processing) BCT-40HD and BP-GL95) Dimensions: Channel coding: 127 x 206 x 308 mm (5 x 8 1/8 x 12 1/4 S-NRZI PR-IV inch) Compression: Coefficient recording system Power requirements: DC 12V + 5.0 V/-1.0 V Error correction: Power consumption: Reed-Solomon code Error concealment: 33 W (with 12V power supply, REC mode, without VF) Adaptive three dimensional Operating temperature: Audio performance 0 °C to +40 °C (32 °F to + 104 °F) Frequency response: 20 Hz to 20 kHz, + 0.5 dB/-1.0 dB Storage temperature: -20 °C to + 60 °C (-4 °F to + 140 °F) Dynamic range: More than 85 dB (emphasis ON) 25% to 85% (relative humidity) Distortion (at 1kHz, emphasis ON, reference Continuous operating time: Approx. 135 min with BP-GL95 Less than 0.08% Cross talk (at 1 kHz, reference level): Input/Output connectors Less than -70 dB Genlock video input: BNC type x 1, 1.0 Vp-p, 75 Ω Wow and flutter: Time code input: Below measurable limit Camera section (Performance) BNC type x 1, 0.5 V to 18 Vp-p, 10 k Ω Pickup device: Mic input: XLR-3-pin type x 1 (Female), -60 dBu 3-chip 2/3-inch type IT CCD Effective picture elements: Test output: BNC type x 1, 1.0 Vp-p, 75 Ω , unbalanced 1920 (H) x 1080 (V) VBS/SDI output (option: HKDW-702/1): Optical system: F1.4 prism (Equipped with Quarz Filter) BNC type x 1, 75 Ω VBS out: 1.0 Vp-p Lens mount: SDI out: 0.8 Vp-p Special bayonet mount HD-SDI output: Built-in filters: 1: Clear, 2: 5600K+1/8ND, 3: 5600K, BNC type (x 1), 0.8 Vp-p, 75 Ω, 4: 5600K+1/64ND unbalanced Audio output: Sensitivity (2000 lx, 89.9% reflectance): F10.0 (typical) Equivalent to ISO 600 or XLR-5-pin type x 1 (Male), 0 dBm more Time code output: BNC type x 1, 1.0 Vp-p, 75 Ω Minimum illumination: Approx. 0.3 lx (F1.4 lens, +42 dB turbo Mini Jack x 2, 8 Ω, -∞ to -18 dBs variable gain) Smear level: Lens: -125 dB 12-pin S/N ratio Remote: 54 dB (typical) 8-pin Modulation depth at 5 MHz: 2-pin, DC 12 V, max. 50 W 45% +/-5% Horizontal resolution: DC input: XLR-4-pin type (Male), DC 11 V to 17 V 1000 TV lines Shutter speed: 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 4-pin (for wireless microphone receiver), DC 11 V to 17 V, maximum current 0.1 A (s) (at 59.94i format) 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 VTR section Recording format: (s) (at 50i format) **HDCAM** Clear Scan: Tape speed: 60 Hz to 4300 Hz (at 59.94i format) Approx. 96.7 mm/s (at 30 frames) (at Programmable Gain: -3, 0, 3, 6, 9, 12, 18, 24, 30, 36, 42 dB 59.94i format) Approx. 80.6 mm/s (at 25 frames) (at 50i Viewfinder CRT: format) Playback/Recording time: 2 0-inch monochrome Max. 40 min. with BCT-40HD (at 59.94i Controls BRIGHT, CONTRAST, PEAKING controls format) TALLY, ZEBRA, DISPLAY/ASPECT switches Max. 48 min. with BCT-40HD (at 50i Horizontal resolution: format) 500 TV lines (16:9, at center) Fast forward/rewind: Approx. 5 min. with BCT-40HD Microphone:

Ultra-directional monaural microphone

(Detachable)

HDW-2000 HDCAM VTR

Features

•Compact and affordable HD videocassette recorder •High picture quality using HDCAM format •Built-in down converter •1080/59.94i, 1080/50i, 1080/23.98PsF, 1080/24PsF, 1080/25PsF, 1080/29.97PsF record and playback •Long recording time of up to 124 minutes at 1080/59.94i or 149 minutes at 1080/50i on an L-size cassette • Versatile interfaces: HD SDI input/output, SDI output, analogue component output, analogue composite (NTSC/PAL) output, digital audio (AES/EBU) input/output, analogue audio input/output and audio monitor output (2-ch, analogue) •Frame-accurate editing •Pre-read editing •High speed colour picture search •Dynamic Tracking playback • Digital jog sound • Audio crossfade function • Dynamic Motion Control (DMC) playback •1080/1035 line conversion •Shot mark handling •Selectable picture modes: Squeeze, letter box, and edge

crop modes •Dolby-E/Dolby AC-3 support •Digital audio and ancillary-data recording •Low power consumption of 220 W •User-friendly control panel •Easy maintenance





Supplied Accessories

Operation manual (1) Installation manual (1)

Optional Accessories

HKDW-101 Remote Control Panel
HKDW-102 SDTI (HDCAM) Interface Board
BKMW-102 Remote Control Unit
BKMW-103 Control Panel Extention Kit
RMM-131 Rack Mount Kit
RCC-G Cables 9-pin/9-pin Cable
BCT-HD series HDCAM tapes
BCT-HD12CL Head cleaning videocassette
tapes for HDCAM VTRs

Specifications General

Power requirements:

100 to 240 V, 50/60 Hz

Power consumption:

220 W

Operating temperature:

+5 to +40 °C (+41 to +104 °F)

Storage temperature:

-20 to +60 °C (-4 to + 140 °F)

Humidity:

25 to 80% (relative humidity)

Mass:

23 kg (50 lb 11 oz)

Dimensions:

427 (W) x 174 (H) x 544 (D) mm

(16 7/8 x 6 7/8 x 21 1/2 inches)

Tape speed:

96.7 mm/s (59.94 Hz), 80.6 mm/s (50 Hz)

Digital recording/playback time:

124 minutes (59.94 Hz, with

BCT-124HDLC)

149 minutes (50 Hz, with BCT-124HDLC)

40 minutes (59.94 Hz, with BCT-40HDC)

48 minutes (50 Hz, with BCT-40HDC)

Fast forward/rewind time:

Approx. 3 min with BCT-124HDL cassette

Search speed range

Shuttle mode:

Still to ±50 times normal speed

playback

Variable mode:

-1 to +2 times normal speed playback

Jog mode

Still to ±1 times normal speed playback

Servo lock time:

0.5 s or less (from standby on)

Load/unload time:

6 s or less (both L and S cassette)

Inputs/outputs

HD-SDI input:

BNC (1), Serial Digital 1.485 Gb/s, SMPTE 292M

Reference video input:

BNC (2) (with a loop-through), Tri-level sync, 0.6 Vp-p, 75 Ω, sync negative or black burst

Digital audio input (CH 1/2, 3/4):

BNC (2), AES/EBU

Analogue audio input (CH 1/2/3/4/Cue): BNC (2) (with loop-through), AES/EBU

XLR 3-pin type, female (5)

Low off: -60 dBu, high impedance,

balanced

High off: +4 dBu, high impedance,

balanced

High on: +4 dBm, 600 Ω termination,

balanced

Time code input:

XLR 3-pin type, female, x1, 0.5 to 18 Vp-p,

10 k Ω , balanced

HD-SDI output:

BNC (3) (SMPTE 292M including one character out), Serial Digital (1.485 Gb/s)

SDI output:

BNC (3) (SMPTE 259M including one character out), Serial Digital (270 Mb/s)

Analogue composite output:

BNC (3) (RS-170A, including one character out, one WFM out)

Y: 1.0 Vp-p, sync negative, R-Y/B-Y: 0.7 Vp-p,

 75Ω

Analogue component output:

BNC (3), for 1 set, 1.0 Vp-p, 75 Ω, sync negative

Digital audio output (CH1/2, 3/4):

BNC (2), AES/EBU

Analogue audio output (CH1/2/3/4):

XLR 3-pin type (5), male, +4 dBm (600 Ω

load), low impedance, balanced

load, low impedance, balanced)

Time code output:

XLR 3-pin type, male (1) (2.2 Vp-p, low

impedance balanced)

Monitor output (L/R): XLR 3-pin type, male (2) (+4 dBm at 600 Ω

Headphones:

JM-60 stereo phone jack (-∞ to -12 dBu at 8Ω load, unbalanced)

Remote 1 input:

D-sub 9-pin, Sony 9-pin remote interface

Remote 1 output:

D-sub 9-pin, Sony 9-pin remote interface RS-232C:

D-sub 9-pin

Remote 2 Parallel I/O:

D-sub 50-pin

Video control:

D-sub 9-pin, D-sub 15-pin

Control panel:

D-sub 10-pin, control panel I/O

Processor adjustment range

Video level:

±3 dB/∞ to +3 dB, selectable

Chroma level

±3 dB/∞ to +3 dB, selectable

Set up/black level:

±3 IRE

Chroma phase/hue:

±30°

System sync phase:

±15 us System SC phase:

±200 ns

Digital video performance

Sampling frequency:

Y: 74.25 MHz, R-Y/B-Y: 37.125 MHz

Quantization:

10 bits/sample (compression 8 bits/sample)

Compression:

Coefficient recording system

Channel coding:

S-I-NRZI PR-IV

Error correction:

Reed-Solomon code

Analogue component output performance

Bandwidth:

Y: 0 to 5.75 MHz +0.5 dB/-2.0 dB,

R-Y/B-Y: 0 to 2.75 MHz +0.5 dB/-2.0 dB S/N ratio

56 dB or more

K-factor (2T pulse):

1% or less

Analogue composite output performance

Bandwidth:

Y: 0 to 5.75 MHz +0.5 dB/-2.0 dB,

R-Y/B-Y: 0 to 2.75 MHz +0.5 dB/-2.0 dB

S/N ratio:

53 dB or more

Differential gain: 2% or less

Differential phase:

2% or less Y/C delay:

20 ns or less

K-factor (2T pulse):

1% or less

Output SCH phase:

Based upon RS-170A/CCIR R.624-3

Digital audio performance

Sampling frequency:

48 kHz (synchronized with video)

Quantization:

20 bits/sample

Wow and flutter:

Below measurable level

Headrooms:

20 dB (or 18 dB selectable) Emphasis (on/off selectable in REC mode):

 $T1 = 50 \mu s$, $T2 = 15 \mu s$

Analogue audio output performance

A/D quantization:

20 bits/sample

D/A quantization:

20 bits/sample

Frequency response:

20 Hz to 20 kHz, +0.5 dB/-1.0 dB

(0 dB at 1 kHz)

Dynamic range:

Distortion:

More than 95 dB (at 1 kHz emphasis on)

Less than 0.05% (at 1 kHz, emphasis on,

reference level)

Crosstalk Less than -80 dB (at 1 kHz, between any

two channels)

Cue track

Sampling frequency: 100 Hz to 12 kHz ±3 dB

S/N ratio:

More than 45 dB (at 3% distortion level)

Distortion:

Less than 2% (T.H.D at 1 kHz reference

level) Wow and flutter:

Less than 0.2% rms Erase ratio: More than 60 dB

HDW-D2000 HDCAM VTR

Features

•Compact and affordable HD videocassette recorder High picture quality using HDCAM format •Legacy playback includes Digital Betacam and MPEG IMX tapes •Built-in up and down converters •1080/59.94i, 1080/50i, 1080/23.98PsF, 1080/24PsF, 1080/25PsF, 1080/29.97PsF record and playback . Long recording time of up to 124 minutes at 1080/59.94i or 149 minutes at 1080/50i on an L-size cassette • Versatile interfaces: HD SDI input/output, SDI output, analogue component output, analogue composite (NTSC/PAL) output, digital audio (AES/EBU) input/output, analogue audio input/output and audio monitor output (2-ch, analogue) •Frame-accurate editing •Pre-read editing •High speed colour picture search •Dynamic Tracking playback •Digital jog sound •Audio crossfade function • Dynamic Motion Control (DMC) playback •1080/1035 line conversion •Shot mark handling •Selectable picture modes: Squeeze, letter box, and edge crop modes • Dolby-E/Dolby AC-3 support • Digital audio and ancillary-data recording . Low power consumption of 220 W •User-friendly control panel •Easy maintenance





Supplied Accessories

Operation manual (1) Installation manual (1)

Optional Accessories

HKDW-101 Remote Control Panel
HKDW-102 SDTI (HDCAM) Interface Board
BKMW-102 Remote Control Unit
BKMW-103 Control Panel Extention Kit
RMM-131 Rack Mount Kit
RCC-G Cables 9-pin/9-pin Cable
BCT-HD series HDCAM tapes
BCT-HD12CL Head cleaning videocassette
tapes for HDCAM VTRS

balanced

Analogue audio input (CH 1/2/3/4/Cue):

XLR 3-pin type, female (5)

BNC (2) (with loop-through), AES/EBU

High on: +4 dBm, 600 Ω termination,

Low off: -60 dBu, high impedance, balanced

High off: +4 dBu, high impedance, balanced

Specifications	Time code input:	Analogue component output performance
General	XLR 3-pin type, female (1), 0.5 to 18 Vp-p,	Bandwidth:
Power requirements:	10 kΩ, balanced	Y: 0 to 5.75 MHz +0.5 dB/-2.0 dB,
100 to 240 V, 50/60 Hz	HD-SDI output:	R-Y/B-Y: 0 to 2.75 MHz +0.5 dB/-2.0 dB
Power consumption:	BNC (3) (SMPTE 292M including one	S/N ratio:
220 W	character out), Serial Digital (1.485 Gb/s)	56 dB or more
Operating temperature:	SDI output:	K-factor (2T pulse):
+5 to +40 °C (+41 to +104 °F)	BNC (3) (SMPTE 259M including one	1% or less
Storage temperature:	character out), Serial Digital (270 Mb/s)	Analogue composite output performance
-20 to +60 °C (-4 to + 140 °F)	Analogue composite output:	Bandwidth:
Humidity:	BNC (3) (RS-170A, including one character	Y: 0 to 5.75 MHz +0.5 dB/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz +0.5 dB/-2.0 dB
25 to 80% (relative humidity) Mass:	out, one WFM out) Y: 1.0 Vp-p, sync negative, R-Y/B-Y: 0.7 Vp-p,	S/N ratio:
23 kg (50 lb 11 oz)	75 Ω	53 dB or more
Dimensions:	Analogue component output:	Differential gain:
427 (W) x 174 (H) x 544 (D) mm	BNC (3, for 1 set), 1.0 Vp-p, 75 Ω , sync	2% or less
(16 7/8 x 6 7/8 x 21 1/2 inches)	negative	Differential phase:
Tape Speed	Digital audio output (CH1/2, 3/4):	2% or less
HDCAM:	BNC (2), AES/EBU	Y/C delay:
96.7 mm/s (59.94 Hz), 80.6 mm/s (50 Hz)	Analogue audio output (CH1/2/3/4):	20 ns or less
Digital Betacam:	XLR 3-pin type (5), male, +4 dBm (600 Ω	K-factor (2T pulse):
96.7 mm/s	load), low impedance, balanced	1% or less
MPEG IMX:	Time code output:	Output SCH phase:
64.5 mm/s (59.94 Hz), 53.8 mm/s (50 Hz)	XLR 3-pin type, male (1) (2.2 Vp-p, low	Based upon RS-170A/CCIR R.624-3
Digital recording/playback time:	impedance balanced)	Digital audio performance
124 minutes (59.94 Hz, with BCT-124HDLC)	Monitor output (L/R):	Sampling frequency:
149 minutes (50 Hz, with BCT-124HDLC)	XLR 3-pin type, male (2) (+4 dBm at 600 Ω	48 kHz (synchronized with video)
40 minutes (59.94 Hz, with BCT-40HDC)	load, low impedance, balanced)	Quantization:
48 minutes (50 Hz, with BCT-40HDC)	Headphones:	20 bits/sample Wow and flutter:
Fast forward/rewind time: Approx. 3 min with BCT-124HDL cassette	JM-60 stereo phone jack (-∞ to -12 dBu at 8 Ω load, unbalanced)	Below measurable level
Search speed range	Remote 1 input:	Headrooms:
Shuttle mode	D-sub 9-pin, Sony 9-pin remote interface	20 dB (or 18 dB selectable)
HDCAM:	Remote 1 output:	Emphasis (on/off selectable in REC mode):
Still to ±50 times normal speed	D-sub 9-pin, Sony 9-pin remote interface	T1 = 50 μs, T2 = 15 μs
playback	RS-232C:	Analogue audio output performance
Digital Betacam:	D-sub 9-pin	A/D quantization:
Still to ±50 times normal speed	Remote 2 Parallel I/O:	20 bits/sample
playback	D-sub 50-pin	D/A quantization:
MPEG IMX:	Video control:	20 bits/sample
Still to ±78 times normal speed	D-sub 9-pin, D-sub 15-pin	Frequency response:
playback	Control panel:	20 Hz to 20 kHz, +0.5 dB/-1.0 dB
Variable mode	D-sub 10-pin, control panel I/O	(0 dB at 1 kHz)
HDCAM:	Processor adjustment range	Dynamic range:
-1 to +2 times normal speed playback	Video level:	More than 95 dB (at 1 kHz emphasis on)
Digital Betacam:	±3 dB/∞ to +3 dB, selectable Chroma level:	Distortion:
-1 to +3 times normal speed playback MPEG IMX:	±3 dB/∞ to +3 dB, selectable	Less than 0.05% (at 1 kHz, emphasis on, reference level)
-1 to +3 times normal speed playback	Set up/black level:	Crosstalk:
Jog mode:	±3 IRE	Less than -80 dB (at 1 kHz, between any two
Still to ±1 times normal speed playback	Chroma phase/hue:	channels)
Servo lock time:	±30°	Cue track
0.5 s or less (from standby on)	System sync phase:	Sampling frequency:
Load/unload time:	±15 µs	100 Hz to 12 kHz ±3 dB
6 s or less (both L and S cassette)	System SC phase:	S/N ratio:
Inputs/outputs	±200 ns	More than 45 dB (at 3% distortion level)
HD-SDI input:	Y/C delay:	Distortion:
BNC (1), Serial Digital 1.485 Gb/s, SMPTE	±100 ns	Less than 2% (T.H.D at 1 kHz reference
292M	Digital video performance	level)
Reference video input:	Sampling frequency:	Wow and flutter:
BNC (2), (with a loop-through), Tri-level sync,	Y: 74.25 MHz, R-Y/B-Y: 37.125 MHz	Less than 0.2% rms
0.6 Vp-p, 75 Ω, sync negative or black burst	Quantization:	Erase ratio:
Digital audio input (CH 1/2, 3/4):	10 bits/sample (compression 8 bits/sample)	More than 60 dB
BNC (2), AES/EBU Analogue audio input (CH 1/2/3/4/Cue):	Coefficient recording system	

Coefficient recording system

Channel coding:

Error correction:

S-I-NRZI PR-IV

Reed-Solomon code

HDW-M2000P HDCAM VTR

Features

•Compact and affordable HD videocassette recorder High picture quality using HDCAM format •Legacy playback includes Digital Betacam, MPEG IMX, Betacam SX, Betacam SP and Betacam tapes •Built-in up and down converters •1080/59.94i, 1080/50i, 1080/23.98PsF, 1080/24PsF, 1080/25PsF, 1080/29.97PsF record and playback •Long recording time of up to 124 minutes at 1080/59.94i or 149 minutes at 1080/50i on an L-size cassette • Versatile interfaces: HD SDI input/output, SDI output, analogue component output, analogue composite (NTSC/PAL) output, digital audio (AES/EBU) input/output, analogue audio input/output and audio monitor output (2-ch, analogue) •Frame-accurate editing •Pre-read editing •High speed colour picture search •Dynamic Tracking playback • Digital jog sound • Audio crossfade function • Dynamic Motion Control (DMC) playback •1080/1035 line conversion •Shot mark handling •Selectable picture modes: Squeeze, letter box, and edge crop modes • Dolby-E/Dolby AC-3 support • Digital audio and ancillary-data recording . Low power consumption of

220 W •User-friendly control panel •Easy maintenance



Operation manual (1) Installation manual (1)

Optional Accessories

HKDW-101 Remote Control Panel
HKDW-102 SDTI (HDCAM) Interface Board
BKMW-102 Remote Control Unit
BKMW-103 Control Panel Extention Kit
RMM-131 Rack Mount Kit
RCC-G Cables 9-pin/9-pin Cable
BCT-HD series HDCAM tapes
BCT-HD12CL Head cleaning videocassette
tapes for HDCAM VTRS





HDCAM

Specifications General

Power requirements: 100 to 240 V, 50/60 Hz

Power consumption:

220 W

Operating temperature:

+5 to +40 °C (+41 to +104 °F)

Storage temperature:

-20 to +60 °C (-4 to + 140 °F)

Humidity:

25 to 80% (relative humidity)

Mass:

23 kg (50 lb 11 oz)

Dimensions:

427 (W) x 174 (H) x 544 (D) mm (16 7/8 x 6 7/8 x 21 1/2 inches)

Tape Speed

HDCAM:

96.7 mm/s (59.94 Hz), 80.6 mm/s (50 Hz) Digital Betacam:

96.7 mm/s

MPFG IMX

64.5 mm/s (59.94 Hz), 53.8 mm/s (50 Hz)

Betacam SX:

59.6 mm/s

Betacam SP/Betacam:

118.6 mm/s (59.94 Hz), 101.5 mm (50 Hz) Digital recording/playback time:

124 minutes (59.94 Hz, with BCT-124HDLC) 149 minutes (50 Hz, with BCT-124HDLC)

40 minutes (59.94 Hz, with BCT-40HDC) 48 minutes (50 Hz, with BCT-40HDC)

Fast forward/rewind time:

Approx. 3 min with BCT-124HDL cassette

Search speed range Shuttle mode

HDCAM:

Still to ±50 times normal speed playback

Digital Betacam:

Still to ±50 times normal speed playback

MPEG IMX:

Still to ±78 times normal speed playback

Betacam SX

Still to ±78 times normal speed playback

Betacam SP/Betacam:

Still to ±35 times normal speed

playback (59.94 Hz) Still to ±42 times normal speed playback (50 Hz)

Variable mode

HDCAM

Betacam SX:

-1 to +2 times normal speed playback Digital Betacam:

-1 to +3 times normal speed playback

MPEG IMX: -1 to +3 times normal speed playback

-1 to +2 times normal speed playback

Betacam SP/Betacam: -1 to +3 times normal speed playback

Jog mode: Still to ±1 times normal speed playback Servo lock time:

0.5 s or less (from standby on)

Load/unload time:

6 s or less (both L and S cassette)

Inputs/outputs

HD-SDI input:

BNC (1), Serial Digital 1.485 Gb/s, SMPTE 292M

Reference video input:

BNC (2), (with a loop-through), Tri-level sync, 0.6 Vp-p, 75 Ω , sync negative or black burst

Digital audio input (CH 1/2, 3/4):

BNC (2), AES/EBU

Analogue audio input (CH 1/2/3/4/Cue):

BNC (2)(with loop-through), AES/EBU

XLR 3-pin type, female (5)

Low off: -60 dBu, high impedance, balanced High off: +4 dBu, high impedance, balanced High on: +4 dBm, 600Ω termination,

balanced

Time code input:

XLR 3-pin type, female (1), 0.5 to 18 Vp-p, 10 k Ω , balanced

HD-SDI output:

BNC (3) (SMPTE 292M including one character out), Serial Digital (1.485 Gb/s)

BNC (3) (SMPTE 259M including one character out), Serial Digital (270 Mb/s)

Analogue composite output:

BNC (3) (RS-170A, including one character out, one WFM out)

Y: 1.0 Vp-p, sync negative,

R-Y/B-Y: 0.7 Vp-p, 75 Ω

Analogue component output:

BNC (3, for 1 set) 1.0 Vp-p, 75 Ω, sync negative

Digital audio output (CH1/2, 3/4):

BNC (2), AES/EBU Analogue audio output (CH1/2/3/4):

XLR 3-pin type, (5), male, +4 dBm (600 Ω load), low impedance, balanced

Time code output:

XLR 3-pin type, male (1) (2.2 Vp-p, low impedance balanced)

Monitor output (L/R):

XLR 3-pin type, male, (2) (+4 dBm at 600 Ω load, low impedance, balanced)

Headphones:

JM-60 stereo phone jack (-∞ to -12 dBu at 8Ω load, unbalanced)

Remote 1 input:

D-sub 9-pin, Sony 9-pin remote interface Remote 1 output:

D-sub 9-pin, Sony 9-pin remote interface RS-232C:

D-sub 9-pin

Remote 2 Parallel I/O:

D-sub 50-pin

Video control:

D-sub 9-pin, D-sub 15-pin

Control panel:

D-sub 10-pin, control panel I/O

Processor adjustment range

Video level:

±3 dB/∞ to +3 dB, selectable

Chroma level:

±3 dB/∞ to +3 dB, selectable

Set up/black level: ±3 IRF

Chroma phase/hue:

±30° System sync phase:

±15 µs

System SC phase:

±200 ns Y/C delay:

±100 ns

Digital video performance

Sampling frequency:

Y: 74.25 MHz, R-Y/B-Y: 37.125 MHz

Quantization:

10 bits/sample (compression 8 bits/sample) Compression:

Coefficient recording system

Channel coding

S-I-NRZI PR-IV

Error correction:

Reed-Solomon code

Analogue component output performance

Bandwidth

Y: 0 to 5.75 MHz +0.5 dB/-2.0 dB,

R-Y/B-Y: 0 to 2.75 MHz +0.5 dB/-2.0 dB

S/N ratio:

56 dB or more

K-factor (2T pulse):

1% or less

Analogue composite output performance

Bandwidth

Y: 0 to 5.75 MHz +0.5 dB/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz +0.5 dB/-2.0 dB

S/N ratio:

53 dB or more Differential gain:

2% or less

Differential phase:

2% or less Y/C delay:

20 ns or less

K-factor (2T pulse):

1% or less Output SCH phase:

Based upon RS-170A/CCIR R.624-3

Digital audio performance

Sampling frequency:

48 kHz (synchronized with video)

Quantization:

20 bits/sample

Wow and flutter:

Below measurable level

Headrooms:

20 dB (or 18 dB selectable)

Emphasis (on/off selectable in REC mode):

$T1 = 50 \mu s$, $T2 = 15 \mu s$ Analogue audio output performance

A/D quantization:

20 bits/sample

D/A quantization:

20 bits/sample

Frequency response:

20 Hz to 20 kHz, +0.5 dB/-1.0 dB (0 dB at 1 kHz)

Dynamic range

More than 95 dB (at 1 kHz emphasis on)

Less than 0.05% (at 1 kHz, emphasis on,

reference level)

Crosstalk Less than -80 dB (at 1 kHz, between any two

channels) Cue track

Sampling frequency:

100 Hz to 12 kHz ±3 dB S/N ratio:

More than 45 dB (at 3% distortion level)

Distortion Less than 2% (T.H.D at 1 kHz reference

level)

Wow and flutter: Less than 0.2% rms

Frase ratio:

More than 60 dB

HDW-M2100P HDCAM Player

Features

- •Compact and affordable HD videocassette player
- •High picture quality using HDCAM format •Legacy playback includes Digital Betacam, MPEG IMX, Betacam SX, Betacam SP and Betacam tapes •Built-in up and down converters •1080/59.94i, 1080/50i, 1080/23.98PsF, 1080/24PsF, 1080/25PsF, 1080/29.97PsF playback
- •Long playback time of up to 124 minutes at 1080/59.94i or 149 minutes at 1080/50i on an L-size cassette
- •Versatile interfaces: HD SDI, SDI, analogue component, analogue composite (NTSC/PAL), digital audio (AES/EBU), analogue audio, and audio monitor (2-ch, analogue) outputs •High speed colour picture search •Dynamic Tracking playback •Digital jog sound
- Dynamic Motion Control (DMC) playback
- •1080/1035 line conversion •Shot mark handling
- •Selectable picture modes: Squeeze, letter box, and edge crop modes •Dolby-E/Dolby AC-3 support
- •Low power consumption of 220 W •User-friendly control panel •Easy maintenance





Supplied Accessories

Operation manual (1) Installation manual (1)

tapes for HDCAM VTRs

Optional Accessories

HKDW-101 Remote Control Panel
HKDW-102 SDTI (HDCAM) Interface Board
BKMW-102 Remote Control Unit
BKMW-103 Control Panel Extention Kit
RMM-131 Rack Mount Kit
RCC-G Cables 9-pin/9-pin Cable
BCT-HD series HDCAM tapes
BCT-HD12CL Head cleaning videocassette

Specifications Digital video performance Jog mode: General Still to ±1 times normal speed playback Sampling frequency: Y: 74.25 MHz. R-Y/B-Y: 37.125 MHz Power requirements: Servo lock time: 100 to 240 V, 50/60 Hz 0.5 s or less (from standby on) Quantization: Power consumption: Load/unload time: 10 bits/sample (compression 8 bits/sample) 220 W 6 s or less (both L and S cassette) Compression: Operating temperature: Inputs/outputs Coefficient recording system +5 to +40 °C (+41 to +104 °F) Channel coding: Time code input: Storage temperature: XLR 3-pin type, female (1), 0.5 to 18 Vp-p, S-I-NRZI PR-IV -20 to +60 °C (-4 to + 140 °F) 10 k Ω , balanced Error correction: Humidity: HD-SDI output: Reed-Solomon code 25 to 80% (relative humidity) BNC (3) (SMPTE 292M including one Analogue component output performance character out), Serial Digital (1.485 Gb/s) Bandwidth: Mass: 23 kg (50 lb 11 oz) SDI output: Y: 0 to 5.75 MHz +0.5 dB/-2.0 dB. Dimensions: BNC (3) (SMPTE 259M including one R-Y/B-Y: 0 to 2.75 MHz +0.5 dB/-2.0 dB S/N ratio: character out), Serial Digital (270 Mb/s) 427 (W) x 174 (H) x 544 (D) mm (16 7/8 x 6 7/8 x 21 1/2 inches) Analogue composite output: 56 dB or more BNC (3) (RS-170A, including one character K-factor (2T pulse): Tape speed HDCAM: out, one WFM out) 1% or less Analogue composite output performance 96.7 mm/s (59.94 Hz), 80.6 mm/s (50 Hz) Y: 1.0 Vp-p, sync negative, R-Y/B-Y: 0.7 Digital Betacam: Vp-p, 75 Ω 96.7 mm/s Analogue component output: Y: 0 to 5.75 MHz +0.5 dB/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz +0.5 dB/-2.0 dB MPEG IMX: BNC (3, for 1 set), 1.0 Vp-p, 75 Ω , sync 64.5 mm/s (59.94 Hz), 53.8 mm/s (50 Hz) S/N ratio: negative Betacam SX: Digital audio output (CH1/2, 3/4): 53 dB or more 59.6 mm/s BNC (2), AES/EBU Differential gain: Betacam SP/Betacam: Analogue audio output (CH1/2/3/4): 2% or less 118.6 mm/s (59.94 Hz), 101.5 mm (50 Hz) XLR 3-pin type (5), male, +4 dBm (600 Ω Differential phase: Digital playback time: load), low impedance, balanced 2% or less Y/C delay: 124 minutes (59.94 Hz, with Time code output: BCT-124HDLC) XLR 3-pin type, male (1) (2.2 Vp-p, low 20 ns or less 149 minutes (50 Hz, with BCT-124HDLC) impedance balanced) K-factor (2T pulse): 40 minutes (59.94 Hz, with BCT-40HDC) Monitor output (L/R): 1% or less XLR 3-pin type, male (2) (+4 dBm at 600 Ω Output SCH phase: 48 minutes (50 Hz, with BCT-40HDC) load, low impedance, balanced) Based upon RS-170A/CCIR R.624-3 Fast forward/rewind time: Approx. 3 min with BCT-124HDL cassette Headphones: Digital audio performance JM-60 stereo phone jack (-∞ to -12 dBu at Sampling frequency: Search speed range Shuttle mode 8Ω load, unbalanced) 48 kHz (synchronized with video) HDCAM: Remote 1 input: Quantization: D-sub 9-pin, Sony 9-pin remote interface 20 hits/sample Still to ±50 times normal speed Remote 1 output: Wow and flutter: playback Digital Betacam: D-sub 9-pin, Sony 9-pin remote interface Below measurable level Still to ±50 times normal speed RS-232C: Headrooms: D-sub 9-pin 20 dB (or 18 dB selectable) playback Remote 2 Parallel I/O: Emphasis (on/off selectable in REC mode): MPEG IMX: Still to ±78 times normal speed D-sub 50-pin $T1 = 50 \mu s$, $T2 = 15 \mu s$ Video control: Analogue audio output performance playback D-sub 9-pin, D-sub 15-pin A/D quantization: Betacam SX: Still to ±78 times normal speed Control panel: 20 bits/sample D-sub 10-pin, control panel I/O playback D/A quantization: Processor adjustment range 20 bits/sample Betacam SP/Betacam: Still to ±35 times normal speed Video level: Frequency response: 20 Hz to 20 kHz, +0.5 dB/-1.0 dB playback (59.94 Hz) ±3 dB/∞ to +3 dB, selectable (0 dB at 1 kHz) Still to ±42 times normal speed Chroma level: ±3 dB/∞ to +3 dB, selectable playback (50 Hz) Dynamic range: Variable mode Set up/black level: More than 95 dB (at 1 kHz emphasis on) +3 IRF Distortion: HDCAM: -1 to +2 times normal speed Chroma phase/hue: Less than 0.05% (at 1 kHz, emphasis on, playback ±30° reference level) Crosstalk Digital Betacam: System sync phase: Less than -80 dB (at 1 kHz, between any ±15 us -1 to +3 times normal speed playback System SC phase: two channels) MPEG IMX: ±200 ns Cue track Sampling frequency: -1 to +3 times normal speed Y/C delay: ±100 ns playback S/N ratio: Betacam SX: -1 to +2 times normal speed Distortion: playback Betacam SP/Betacam:

Cue track
Sampling frequency:
100 Hz to 12 kHz ±3 dB
S/N ratio:
More than 45 dB (at 3% distortion level)
Distortion:
Less than 2% (T.H.D at 1 kHz reference level)
Wow and flutter:
Less than 0.2% rms

-1 to +3 times normal speed

playback

HDW-1800 HDCAM VTR

Features

•Most affordable HDCAM studio recorder •HDCAM record and replay •Built-in down converters •1080/59.94i, 1080/50i, 1080/23.98PsF, 1080/24PsF, 1080/25PsF, 1080/29.97PsF record and playback •720/50P output when replaying 1080/25PsF or 1080/50i recordings⁻¹ •Input of HDV data via i.LINK² •Long playback time of up to 124 minutes at 1080/59.94i or 149 minutes at 1080/50i on an L-size cassette •Versatile interfaces: HD SDI, SDI, analogue composite (NTSC/PAL), digital audio (AES/EBU) •2-ch analogue audio inputs and outputs •Audio monitor (2-ch, analogue) outputs •High speed colour picture search • Dynamic Tracking playback • Digital jog sound • Dynamic Motion Control (DMC) playback •Shot mark handling •Selectable picture modes: Squeeze, letter box, and edge crop modes •Dolby-E/Dolby AC-3 support •Low power consumption of 150 W •User-friendly control panel •Easy maintenance



^{*2} Requires HKDW-105 option

Supplied Accessories

Operation manual (1) Installation manual (1)

Optional Accessories

RMM-131 Rack Mount Kit
HKDW-104 Pull-down/720P Board
HKDW-105 i.LINK (HDV) Input Board
RM-280 Editing Controller*
RMM-131 Rack Mount Kit
RCC-G Cables 9-pin/9-pin Cable
BCT-HD tapes BCT-HD series HDCAM tapes
BCT-HD12CL Head cleaning videocassette
tapes for HDCAM VTRS





^{*} Supplied with a 9-pin to 4-pin remote cable (2 metres) for connection to the HDW-1800. For longer cable runs, a 10-metre cable is available as an option (1-832-104-11.)

Specifications
General
Power requirements
100 to 240 V, 50/60 Hz
Power consumption
150 W
Operating temperature +5 to +40 °C (41to 104 °F)
Storage temperature
-20 to +60 °C (-4 to +140 °F)
Humidity
20 to 90%
Mass
22 kg (48 lb 8 oz)
Dimensions (W x H x D)
427 x 174 x 544 mm
(16 7/8 x 6 7/8 x 21 1/2 inches)
Tape speed
HDCAM
96.7 mm/s (59.94i, 29.97PsF),
80.6 mm/s (50i, 25PsF),
77.4 mm/s (24PsF, 23.98PsF)
HDCAM record/playback time
124 minutes (59.94i, 29.97PsF,
with BCT-124HDL cassette)
149 minutes (50i, 25PsF,
with BCT-124HDL cassette)
155 minutes (24PsF, 23.98PsF,
with BCT-124HDL cassette) 40 minutes (59.94i, 29.97PsF,
with BCT-40HD cassette)
48 minutes (50i, 25PsF,
with BCT-40HD cassette)
50 minutes (24PsF, 23.98PsF,
with BCT-40HD cassette)
Fast forward/rewind time
Approx. 3 minutes
(with BCT-124HDL cassette)
Search speed range
Shuttle mode
HDCAM
Still to ±50 times normal speed
playback (59.94i, 29.97PsF),
Still to ±58 times normal speed
playback (50i, 25PsF),
Still to ±60 times normal speed
playback (24PsF, 23.98PsF)
Variable mode
HDCAM
-1 to +2 times normal speed play
Jog mode
Still to ±1 times normal speed playb
Servo lock time
0.6 s or less (59.94i, 29.97PsF,
from standby on), 0.7 s or less (50i, 25PsF, 24PsF, 23.98PsF,
(501, 25PSF, 24PSF, 23.96PSF, from standby on)
Load/unload time
6 s or less (both L and S cassettes)
5 5 5. 1055 (DOIN E dila 5 cassettes)

```
/back
                                      ack
Input/Outut
HD-SDI input
   BNC x 1 (SMPTE 292M),
   Serial Digital (1.485 Gb/s)
Reference video input
   BNC x 2 (with a loop-through),
   0.3 Vp-p, 75 Ω,
   75 \Omega, sync negative or Black Burst
   or Composite
Digital audio input (CH 1/2, CH 3/4)
   BNC x 2, AES/EBU
```

```
Analogue audio input (CH 1/2)
  XLR-3-pin type, female, x 2
  Low off:
      -60 dBu, high impedance, balanced
  High off
      +4 dBu, high impedance, balanced
  High on
     -4 dBm, 600 \Omega termination, balanced
Time code input
  XLR-3-pin type, female, x 1
  (0.5 to 18 Vp-p,10 k\Omega, balanced)
i.LINK(HDV 1080i) input (option: HKDW-105)
  IEEE1394, 6-pin x 1
HD-SDI output
  BNC x 3 (SMPTE 292M including one
  character out), Serial Digital (1.485 Gb/s)
SD-SDI output
   BNC x 3 (SMPTE 259M including one
  character out), Serial Digital (270 Mb/s)
Analogue composite output
   BNC x 3 (RS-170A, including one
  character out, one WFM out), Y: 1.0 Vp-p,
  sync negative, R-Y/B-Y: 0.7 Vp-p, 75 \Omega
Digital audio output
  BNC x 2, AES/EBU, (CH 1/2, CH 3/4)
Analogue audio output (CH1/2)
  XLR-3-pin type, x2, male,
   +4 dBm (600 Ω load),
  low impedance, balanced
Time code output
   XLR-3-pin type, male, x 1
   (2.2 Vp-p, low impedance, balanced)
Monitor output L/R
  XLR-3-pin type, male, x 2
  (+4 dBm at 600 \Omega load,
  low impedance, balanced)
Headphones
   JM-60 Stereo phone jack
  (-∞to -12 dBu at 8 Ω load, unbalanced)
Remote1 In
  D-sub 9-pin, Sony 9-pin remote interface
Remote1 Out
  D-sub 9-pin, Sony 9-pin remote interface
RS-232C
  D-sub 9-pin
Remote2 Parallel I/O
  D-sub 50-pin
Video control
  D-sub 9-pin
Control panel
  D-sub 15-pin
Others
  "Memory Stick"™ slot
Processor adjustment range
Video level
   ±3 dB/∞, to +3 dB, selectable
Chroma level
   ±3 dB/∞ to +3 dB, selectable
Chroma phase/hue
  ±30°
System sync phase
```

±15 µs

System SC phase +200 ns

Dgital video performance Sampling frequency Y: 74.25 MHz. R-Y/B-Y: 37.125 MHz Quantisation 10 bit/sample (compression: 8 bit/sample) Compression

Coefficient recording system Channel coding S-I-NRZI PR-IV Error correction

Reed-Solomon code

Analogue composite output performance Bandwidth

0 to 5.75 MHz +0.5 dB/-3.0 dB S/N ratio 53 dB or more

Differential gain 2% or less Differential phase 2% or less

Y/C delay 20 ns or less K Factor (2T Pulse) 1% or less

Output SCH phase Based upon RS-170A/CCIR R.624-3

Dgital audio performance Sampling frequency

48 kHz (Synchronised with video) Quantisation

20 bit/sample Wow & flutter

Below measurable level

Headrooms 20 dB (or 18 dB selectable)

Emphasis (ON/OFF selectable in REC mode)

T1=50 µs, T2=15 µs (on/off selectable in recording mode)

Analogue audio output performance A/D quantisation

20 bit/sample D/A quantisation 20 bit/sample

Frequency response

20 Hz to 20 kHz +0.5 dB/-1.0 dB

(0 dB at 1 kHz) Dynamic range

More than 95 dB (at 1 kHz, emphasis ON)

Distortion Less than 0.05%

(at 1 kHz, emphasis ON, reference level) Crosstalk

Less than -80 dB

(at 1 kHz, between any two channels)

Cue track

Sampling frequency 100 Hz to 12 kHz ± 3 dB S/N ratio

More than 45 dB (at 3% distortion level)

Distortion

Less than 2% (THD at 1 kHz.

reference level)

Wow & flutter

Less than 0.2% rms

HDW-D1800 HDCAM VTR

Features

•Affordable HD videocassette recorder •High picture quality using HDCAM format •Legacy playback of Digital Betacam and MPEG IMX tapes •Built-in up and down converters •1080/59.94i, 1080/50i, 1080/23.98PsF, 1080/24PsF, 1080/25PsF, 1080/29.97PsF recording and playback •720/50P output when replaying 1080/25PsF or 1080/50i recordings" • Input of HDV data via i.LINK"2 •Long playback time of up to 124 minutes at 1080/59.94i or 149 minutes at 1080/50i on an L-size cassette · Versatile interfaces: HD SDI, SDI, analogue component, analogue composite (NTSC/PAL), digital audio (AES/EBU) •2-ch analogue audio inputs and outputs ·Audio monitor (2-ch, analogue) outputs ·High speed colour picture search • Dynamic Tracking playback • Digital jog sound • Dynamic Motion Control (DMC) playback •Shot mark handling •Selectable picture modes: Squeeze, letter box, and edge crop modes •Dolby-E/Dolby AC-3 support •Low power consumption of

150 W •User-friendly control panel •Easy maintenance



^{*2} Requires HKDW-105 option

Supplied Accessories

Operation manual (1) Installation manual (1)

Optional Accessories

RMM-131 Rack Mount Kit
HKDW-104 Pull-down/720P Board
HKDW-105 i.LINK (HDV) Input Board
RM-280 Editing Controller*2
RMM-131 Rack Mount Kit
RCC-G Cables 9-pin/9-pin Cable
BCT-HD tapes BCT-HD series HDCAM tapes
BCT-HD12CL Head cleaning videocassette
tapes for HDCAM VTRS





^{*} Supplied with a 9-pin to 4-pin remote cable (2 metres) for connection to the HDW-D1800. For longer cable runs, a 10-metre cable is available as an option (1-832-104-11.)

Specifications	from standby on)	Chroma phase/hue
General	Load/unload time	±30°
Power requirements	6 s or less (both L and S cassettes)	System sync phase
100 to 240 V, 50/60 Hz	Input/output	±15 μs
Power consumption	HD-SDI input	System SC phase
150 W	BNC x 1 (SMPTE 292M),	±200 ns
Operating temperature	Serial Digital (1.485 Gb/s)	Digital video performance
+5 to +40 °C (41to 104 °F)	Reference video input	Sampling frequency
Storage temperature	BNC x 2 (with a loop-through),	Y: 74.25 MHz, R-Y/B-Y: 37.125 MHz
-20 to +60 °C (-4 to +140 °F) Humidity	0.3 Vp-p, 75 Ω , 75 Ω , sync negative or Black Burst	Quantisation 10 bit/sample (compression: 8 bit/sample)
20 to 90%	or Composite	Compression
Mass	Digital audio input (CH 1/2, CH 3/4)	Coefficient recording system
22 kg (48 lb 8 oz)	BNC x 2, AES/EBU	Channel coding
Dimensions (W x H x D)	Analogue audio input (CH 1/2)	S-I-NRZI PR-IV
427 x 174 x 544 mm	XLR-3-pin type, female, x 2	Error correction
(16 7/8 x 6 7/8 x 21 1/2 inches)	Low off:	Reed-Solomon code
Tape speed	-60 dBu, high impedance, balanced	Analogue composite output performance
HDCAM	High off:	Bandwidth
96.7 mm/s (59.94i, 29.97PsF),	+4 dBu, high impedance, balanced	0 to 5.75 MHz +0.5 dB/-3.0 dB
80.6 mm/s (50i, 25PsF), 77.4 mm/s	High on:	S/N ratio
(24PsF, 23.98PsF)	-4 dBm, 600 Ω termination, balanced	53 dB or more
Digital BETACAM	Time code input	Differential gain
96.7 mm/s	XLR-3-pin type, female, x 1	2% or less
MPEG IMX	(0.5 to 18 Vp-p,10 kΩ, balanced) i.LINK(HDV 1080i) input (option: HKDW-105)	Differential phase
64.5 mm/s (525/59.94i), 53.8 mm (625/50i)	IEEE1394, 6-pin x 1	2% or less Y/C delay
HDCAM record/playback time	HD-SDI output	20 ns or less
124 minutes (59.94i, 29.97PsF,	BNC x 3 (SMPTE 292M including one	K Factor (2T Pulse)
with BCT-124HDL cassette)	character out), Serial Digital (1.485 Gb/s)	1% or less
149 minutes (50i, 25PsF,	SD-SDI output	Output SCH phase
with BCT-124HDL cassette)	BNC x 3 (SMPTE 259M including one	Based upon RS-170A/CCIR R.624-3
155 minutes (24PsF, 23.98PsF,	character out), Serial Digital (270 Mb/s)	Digital audio performance
with BCT-124HDL cassette)	Analogue composite output	Sampling frequency
40 minutes (59.94i, 29.97PsF,	BNC x 3 (RS-170A, including one	48 kHz (Synchronised with video)
with BCT-40HD cassette)	character out, one WFM out), Y: 1.0 Vp-p,	Quantisation
48 minutes (50i, 25PsF,	sync negative, R-Y/B-Y: 0.7 Vp-p, 75 Ω	20 bit/sample
with BCT-40HD cassette)	Digital audio output	Wow & flutter
50 minutes (24PsF, 23.98PsF,	BNC x 4, AES/EBU	Below measurable level
with BCT-40HD cassette)	(CH 1/2, CH 3/4, CH 5/6, CH 7/8)	Headrooms
Fast forward/rewind time Approx. 3 minutes	Analogue audio output (CH 1/2) XLR-3-pin type, x 2, male,	20 dB (or 18 dB selectable) Emphasis (ON/OFF selectable in REC mode)
(with BCT-124HDL cassette)	+4 dBm (600 Ω load),	T1=50 μs, T2=15 μs (on/off selectable in
Search speed range	low impedance, balanced	recording mode)
Shuttle mode	Time code output	Analogue audio output performance
HDCAM	XLR-3-pin type, male, x 1	A/D quantisation
Still to ±50 times normal speed	(2.2 Vp-p, low impedance, balanced)	20 bit/sample
playback (59.94i, 29.97PsF),	Monitor output L/R	D/A quantisation
Still to ±58 times normal speed	XLR-3-pin type, male, x 2	20 bit/sample
playback (50i, 25PsF),	(+4 dBm at 600 Ω load,	Frequency response
Still to ±60 times normal speed	low impedance, balanced)	20 Hz to 20 kHz +0.5 dB/-1.0 dB
playback (24PsF, 23.98PsF)	Headphones	(0 dB at 1 kHz)
Digital BETACAM	JM-60 Stereo phone jack	Dynamic range
Still to ±50 times	(-∞to -12 dBu at 8 Ω load, unbalanced) Remote1 In	More than 95 dB (at 1 kHz, emphasis ON)
normal speed playback MPEG IMX	D-sub 9-pin, Sony 9-pin remote interface	Distortion
Still to ±78 times	Remote1 Out	Less than 0.05%
normal speed playback	D-sub 9-pin, Sony 9-pin remote interface	(at 1 kHz, emphasis ON, reference level)
Variable mode	RS-232C	Crosstalk
HDCAM	D-sub 9-pin	Less than -80 dB
-1 to +2 times normal speed playback	Remote2 Parallel I/O	(at 1 kHz, between any two channels)
Digital BETACAM	D-sub 50-pin	Cue track
-1 to +3 times	Video control	Sampling frequency
normal speed playback	D-sub 9-pin	100 Hz to 12 kHz ±3 dB
MPEG IMX	Control panel	S/N ratio
-1 to +3 times	D-sub 15-pin	More than 45 dB (at 3% distortion level)
normal speed playback	Others "Momory Stick"™ slot	Distortion
Jog mode Still to +1 times permal speed playback	"Memory Stick" [™] slot Processor adjustment range	Less than 2% (THD at 1 kHz, reference level)
Still to ±1 times normal speed playback Servo lock time	Video level	Wow & flutter
0.6 s or loss (50.04), 20.07PsE	+3 dR/m to +3 dR selectable	Less than 0.2% rms

 ± 3 dB/ ∞ to +3 dB, selectable

Chroma level

from standby on), 0.7 s or less

(50i, 25PsF, 24PsF, 23.98PsF,

HDW-S280/1 HDCAM VTR

Features

•Compact HD videocassette recorder •Half rack width chassis •Legacy playback includes Betacam SX, Betacam SP and Betacam •1080/59.94i, 1080/50i, 1080/23.98PsF, 1080/24PsF, 1080/25PsF and 1080/29.97PsF switchable operation •Record time of up to 48 minutes at 1080/50i on an S-size cassette •HDSDI input •HDSDI, SDI and composite analogue output •AC, DC and battery operation •LCD on front panel for picture monitoring •Low power consumption of 80W •Built-in up and down converters



Optional Accessories

BKP-L55 Battery Adapter
BP-GL95 Rechargeable Lithium-ion Battery
BP-GL65 Rechargeable Lithium-ion Battery
BP-L80S Rechargeable Lithium-ion Battery Pack
BC-M150 Ni-MH & Lithium-ion Battery Charger
BC-L500 Lithium-ion Battery Charger
BCT-HD Series HDCAM tapes
BCT-HD12CL Head cleaning tape for HDCAM VTRs



HDCAM Specifications Power requirements: 100 to 240 V, 50/60 Hz Power consumption: 60 W (DC operation), 80 W (AC operation) Operating temperature: $+5 \text{ to } +40^{\circ}\text{C} \text{ (+41 to } +104^{\circ}\text{F)}$ Storage temperature: -20 to +60°C (-4 to +140°F) Humidity: 25 to 80% Mass: 6 kg (13 lb 4 oz) Dimensions (W x H x D): 210 x 132 x 425 mm (8 3/8 x 5 1/4 x 16 3/4 inches) HDCAM record/playback time: 40 minutes (59.94 Hz), 48 minutes (50 Hz) with BCT-40HD cassette Fast-forward/rewind time: Approx. 4 minutes (fast forward), 3 minutes (rewind) Shuttle speed: ±10 times normal speed Jog speed: ±1 time normal speed Servo lock time: 1.0 second or less Load/unload time: 7 seconds or less Continuous Operating time: 80 minutes with BP-GL95 Battery Inputs: HD-SDI (BNC x1, with loop through), Reference (BNC x1, with loop through), analogue audio (XLR 3-pin type, female x2), time code (BNC x1)

Outputs:

HD-SDI (BNC x2), SD-SDI (BNC x2), analogue composite (BNC x2), analogue audio (XLR-3-pin, female x2), audio monitor (XLR-3-pin, female x2), headphone (JM-60 stereo phone jack, x1), time code (BNC x1) Remote: RS-422 (D-sub 9-pin x1), video control (D-sub 9-pin x1)

Others slots:

DC input (XLR-4-pin, male x1), "Memory Stick" slot (x1)

Supplied accessories:

Operation manual, installation manual, connector cap

Optional accessories:

BCT-6HD/12HD/22HD/32HD/40HD HDCAM cassette, BCT-HD12CL cleaning tape, RCC-5G remote cable, BKP-L551 battery adaptor, BP-GL95/GL65 battery pack, BC-M150 battery charger

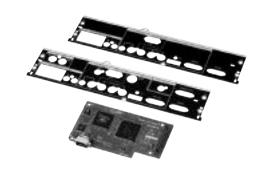
HKJ-101 i.LINK Interface Board

Features

•Used with the J-H1 or J-H3 •Provides i.LINK connection between J-H1/J-H3 and DV-ready NLE systems and recorders •HDCAM footage is down-converted to DV 25 Mb/s stream •Connects video, audio (Max. 4 channels) and control signals

Applicable Models

J-H1 Compact HDCAM Player J-H3 Compact HDCAM Videocassette Player



J-H1 Compact HDCAM Player

The J-H1 is a cost effective, compact and lightweight HDCAM viewer ideal for desk-top use.

Features

•HDCAM playback capability •Supports 1080/50i and 1080/59.9i formats •Accommodates both small and large cassettes •Versatile output capability for flexible monitoring •Equipped with HD analogue Y/Pb/Pr component output •Down conversion built-in •NTSC or PAL composite video output from both BNC and RCA output connectors •Equipped with RGB computer display interface (at XGA resolution) •Optional i.LINK interface board (HKJ-101) •Shot mark handling





Supplied Accessories

Operation manual (CD-ROM) (1) Vertical stand (1)

Optional Accessories

HKJ-101 i.LINK Interface Board

Specifications

General

Power requirements:

AC 100 to 240 V, 50/60 Hz

Power consumption:

50 W

30 VV

Operating temperature:

+5 to +40°C (+41 to +104°F)

Storage temperature:

-20 to +60 °C (-4 to +140°F)

Humidity:

25 to 80% (relative humidity)

Mass:

7.5 kg (16 lb 9 oz)

Dimensions:

307(W) x 100 (H) x 397 (D) mm

(12 1/8 x 4 x 15 3/4 inches)

Tape speed

HDCAM:

96.7 mm/s (29.97 Hz)

80.7mm/s (25 Hz)

Playback time

HDCAM:

Max. 124 min (29.97 Hz, with

BCT-124HDL)

Max. 149 min (25 Hz, with BCT-124HDL)

Fast forward/rewind time

Approx. 5 min with BCT-124HD

Search speed range

Shuttle mode:

±21 times normal playback speed

Job mode:

±1 times normal playback speed

Servo lock time:

1 s or less (from standby on)

Load/unload time:

7 s or less

Input output

Analogue HD video:

BNC (x 3) Y: 0.7 Vp-p, Pb/Pr:

±0.7 Vp-p 75 Ω

EIAJ RC-5237 connector, EIAJ CP-4120

standard

Analogue SD video:

BNC (x 1), Pin jack (x 1), 1.0 Vp-p, 75 Ω

Computer display:

D-sub 15 pin, XGA (1024 x 768 dots, RGB,

0.7 V

I.LINK (optional):

IFFF1394

Audio monitoring:

Pin jack (x 2): -10 dBu at 47 k Ω load,

unbalanced

XLR (male x 2): +4 dBm, 600 Ω load, low

impedance, balanced

Headphone:

JM-60 stereo phone jack, -∞ to -12 dBu at

8 Ω , unbalanced

RS-232C:

D-sub 9 pin male (x 1)

Wireless remote:

BIRCS

BIRCS

EXT SYNC:

BNC x 2

HD analogue response

Output level:

Y: 700 mV (±5%), Pb/Pr: 700 mV (±5%),

Sync signal: 300 mV (±5%)

Bandwidth

Y: 0 to 20 MHz + 1.0 dB/-3.0 dB,

Pb/Pr: 0 to 7 MHz +1.0 dB/-3.0 dB

S/N ratio:

56 dB or more

Output impedance:

Y, Pb, Pr: 75 Ω (±5%)

Y/C delay:

Y, Pb, Pr: ±15 ns or less

- XGA analogue response -

Output level:

R: 700 mV (±5%), G: 700 mV (±5%),

B: 700 mV (±5%)

Resolution:

XGA

Refresh/rate:

60 Hz H-frequency:

48.4 kHz

SD composite response

Output level

Y: 59.94i: 714 mV (±5%), 50i: 700 mV (±5%)

Sync: 59.94i: 286 mV (±5%), 50i: 300 mV

Burst: 59.94i: 286 mV (±5%), 50i: 300 mV (±5%)

Bandwidth:

0.5 to 5.75 MHz + 0.5 dB/-3.0 dB

S/N ratio:

56 dB or more

Y/C delay:

20 ns or less

K Factor (2T pulse):

1.0% or less

Analogue audio response

Output level:

XLR: +4±0.5 dBm, -20 dBFS, 600 Ω

terminated

PIN: +10±0.5 dBu, -20 dBFS, 47 kΩ

terminated

Frequency response:

20 Hz to 20 kHz + 1.0 dB/-1.5 dB

Dynamic range:

More than 85 dB (at 1 kHz, emphasis ON)

Distortion:

Less than 0.1% (at 1 kHz/-20 dBFS,

emphasis ON)

Wow and flutter: Less than 0.18%

J-H3 Compact HDCAM Player

The J-H3 is a cost effective, compact and lightweight HDCAM viewer ideal for desk-top use. The J-H3 is equipped with a number of features to support 24P production applications.

Features

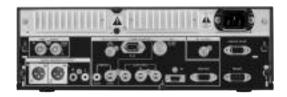
•HDCAM playback capability •Supporting 23.98/24/25/29.97PsF and 50i/59.94i formats

·Accommodates both small and large cassettes ·Versatile output capability for flexible monitoring •Equipped with HD analogue Y/Pb/Pr component output •Down conversion built-in • Equipped with HD-SDI and SD-SDI outputs • NTSC or PAL composite video output from both BNC and RCA output connectors • Equipped with RGB computer display interface (at XGA resolution) •Optional i.LINK interface board (HKJ-101) •Timecode output

•Reference input •RS-422 and RS-232C remote interface

•LTC output •Shot mark handling •TC character superimposing capability





Supplied Accessories

Operation manual (CD-ROM) (1) Vertical stand (1)

Optional Accessories

HKJ-101 i.LINK Interface Board

Specifications

General

Power requirements: AC 100 to 240 V, 50/60 Hz

Power consumption:

60 W

Operating temperature:

+5 to +40°C (+41 to +104°F)

Storage temperature:

-20 to +60 °C (-4 to +140°F)

Humidity:

25 to 80% (relative humidity)

Mass:

7.5 kg (16 lb 9 oz)

Dimensions:

307(W) x 100 (H) x 397 (D) mm

(12 1/8 x 4 x 15 3/4 inches)

Tape speed

HDCAM:

96.7 mm/s (29.97 Hz)

80.7 mm/s (25Hz)

77.4 mm/s (24 Hz)

Playback time

HDCAM:

Max. 124 min (29.97 Hz, with BCT-124HDL) Max. 149 min (25 Hz, with BCT-124HDL)

Max. 155 min (24 Hz, with BCT-124HDL)

Fast forward/rewind time

Approx. 5 min with BCT-124HD

Search speed range

Shuttle mode:

±21 times normal playback speed

±1 times normal playback speed

Servo lock time:

1 s or less (from standby on)

Load/unload time:

7 s or less

Input output

Digital HD video:

BNC (x 1), SMPTE-292M

Digital SD video:

BNC (x 1), SMPTE-259M

Analogue HD video:

BNC (x 3) Y: 0.7 Vp-p, Pb/Pr: \pm 0.7 Vp-p 75 Ω

EIAJ RC-5237 connector, EIAJ CP-4120 standard

Analogue SD video:

BNC (x 1), Pin jack (x 1), 1.0 Vp-p, 75 Ω

Computer display

D-sub 15 pin, XGA (1024 x 768 dots,

RGB, 0.7 V

I.LINK (optional):

IEEE1394

Time code:

BNC (x 1), SMPTE-12M

Audio monitoring:

Pin jack (x 2): -10 dBu at 47 k Ω load,

unbalanced

XLR (male x 2): +4 dBm, 600 Ω load, low

impedance, balanced

Headphone:

JM-60 stereo phone jack, -∞ to -12 dBu at 8

 Ω , unbalanced

RS-232C:

D-sub 9 pin male (x 1)

D-sub 9 pin female (x 1), Sony 9-pin remote

interface Wireless remote:

BIRCS

EXT SYNC

BNC x 2

HD analogue response

Output level:

Y: 700 mV (±5%), Pb/Pr: 700 mV (±5%), Sync signal: 300 mV (±5%)

Bandwidth:

Y: 0 to 20 MHz + 1.0 dB/-3.0 dB, Pb/Pr: 0 to 7 MHz

+1.0 dB/-3.0 dB

S/N ratio

56 dB or more

Output impedance:

Y, Pb, Pr: 75 Ω (±5%)

Y/C delay:

Y, Pb, Pr: ±15 ns or less

XGA analogue response

Output level:

R: 700 mV (±5%), G: 700 mV (±5%),

B: 700 mV (±5%)

Resolution:

XGA Refresh/rate:

60 Hz

H-frequency:

48 4 kHz

SD composite response

Output level:

Y: 59.94i: 714 mV (±5%), 50i: 700 mV (±5%)

Svnc: 59.94i: 286 mV (±5%), 50i: 300 mV

Burst: 59.94i: 286 mV (±5%), 50i: 300 mV

(+5%)

Bandwidth:

0.5 to 5.75 MHz + 0.5 dB/-3.0 dB

S/N ratio

56 dB or more

Y/C delay:

20 ns or less

K Factor (2T pulse):

1.0% or less

Analogue audio response

Output level:

XLR: $+4\pm0.5$ dBm, -20 dBFS, $600~\Omega$

terminated

PIN: +10±0.5 dBu, -20 dBFS, 47 kΩ

terminated

Frequency response: 20 Hz to 20 kHz + 1.0 dB/-1.5 dB

Dynamic range:

More than 85 dB (at 1 kHz, emphasis ON)

Distortion:

Less than 0.1% (at 1 kHz/-20 dBFS, emphasis

Wow and flutter:

Less than 0.18%

CAM SR

HDCAM SR

SRPC-112	28
SRW-113	30
SRW-5000/113	32
SRW-5500/113	34
F2313	86
HKSR-500313	37
HKSR-5001/113	37
HKSR-500213	37
LIKCD 400	, –

SRPC-1 HD Video Processor

Used with the SRW-1 HD Digital Video Cassette Recorder, the SRPC-1 HD Video Processor forms the first Sony full-bandwidth HD 4:4:4 (RGB) portable VTR system. Adopting the HDCAM-SR format, the SRW-1/SRPC-1 offers virtually lossless 1080-line high-definition recordings at multiple frame rates on the very latest HDCAM-SR tape media. Offering unprecedented HD image quality, excellent operability, and powerful interfacing capabilities, the SRW-1 and SRPC-1 offer the ideal HD portable VTR system, especially for movie-making, commercial production, and high-end television production applications.

Features

- •High-quality HD field recording •Double speed recording
- •Multi-frame-rate 1080 HD Recording and Playback
- •12 channels of 24 bit audio

Supplied Accessories

Operational Manual (1)

Optional Accessories

BCT-HD12CL tapes Head cleaning videocassette tapes for HDCAM VTRs
RM-B750 Remote Control Unit
BC-M150 Ni-MH & Li-ion Battery Charger
BP-GL95 Rechargeable Lithium-ion Battery Pack
BP-GL65 Rechargeable Lithium-ion Battery Pack
RM-B150 Remote Control Unit
AC-DN2B





HDCAM SR

Specifications General

Power requirement:

DC +12 V (DC +11 to +17 V)

Operating temperature:

0 to +40 °C

Storage temperature

-20 to +60 °C

Humidity:

25 to 80% (relative humidity)

Mass:

8.5 kg (18 lb. 12 oz)

Dimensions (W x H x D):

279 x 399 x 139 mm (11 x 15 3/4 x 5 5/8

inches)

Recording format:

HDCAM-SR

Recording/Playback time:

Normal speed recording: 50 min. with

BCT-40SR cassette (24P mode)

Double speed recording: 25 min. with

BCT-40SR cassette (24P mode)

Fast forward/rewind time:

5 min.

Fast forward/rewind speed:

+11 times

Search speed (Shuttle mode):

±11 times

Input/Output signals

HD serial V/A input:

BNC x 2, Serial Digital (1.485 Gb/s), SMPTE-292M/SMPTE-372M/BTA-S004/ITU-

R.BT709

HD reference video input:

BNC x 1, Tri Level Sync, 0.6 Vp-p, 75 $\Omega_{\mbox{\tiny N}}$

sync negative

SD reference video input:

BNC x 1, Black Burst, 0.286 Vp-p, 75 $\Omega_{\mbox{\tiny N}}$

sync negative

Digital audio input:

BNC x 2 (AES/EBU)

Analogue audio input:

XLR-3pin x 4 (female)

Time code input:

BNC (x 1), 0.5 to 18 Vp-p, 10 $\text{k}\Omega$

HD serial V/A output:

BNC x 2, serial digital (1.485 Gb/s),

SMPTE-292M/SMPTE-372M/BTA-S004/ITU-

R.BT709

HD serial V/A monitor output:

BNC x 1 (with character out), serial digital

(1.485 Gb/s),

SMPTE-292M/BTA-S004/ITU-R.BT709

SD serial V/A monitor output:

BNC x 1 (with character out), D1 serial digital (270 Mb/s), SMPTE-259M

Digital audio output (ch1 to ch12):

D-Sub multi connector

Analogue audio monitor output

XLR-3-pin x 2 (male)

Time code output:

BNC x 1, 1.0 Vp-p (75 Ω), 2.2 Vp-p

(10 kΩ)

Phones:

Stereo mini jack x 2 -17 dBu

Remote input:

D-sub 9-pin, (female), Sony 9pin remote

interface

Digital video performance

Sampling frequency:

Y: 74.25 MHz, Pb/Pr: 37.125 MHz G: 74.25 MHz, B: 74.25 MHz,

R: 74.25 MHz

Quantization:

10 bits/sample

Compression:

MPEG-4 Studio Profile

Channel coding:

S-NR7

Error correction:

Reed-Solomon code

Digital audio performance

Sampling frequency:

48 kHz (synchronized with video)

Quantization:

24 bits/sample

Wow and flutter:

Below measurable level

Analogue audio performance

(Playback with the SRW-5000 VTR)

Sampling frequency:

24 bits/sample

Frequency response:

20 Hz to 20 kHz, +0.5 dB/-1.0 dB

(reference level)

Dynamic range:

More than 100 dB (1 kHz)

Distortion:

Less than 0.05% (at 1 kHz, reference level)

rosstalk.

Less than -80 dB (at 1kHz, between any

two channels)

SRW-1 HDCAM-SR Portable VTR

Used with the SRPC-1 HD Video Processor, the SRW-1 HD Digital Video Cassette Recorder forms the first Sony full-bandwidth HD 4:4:4 (RGB) portable VTR system. Adopting the HDCAM-SR format, the SRW-1/SRPC-1 offers virtually lossless 1080-line high-definition recordings at multiple frame rates on the very latest HDCAM-SR tape media. Offering unprecedented HD image quality, excellent operability, and powerful interfacing capabilities, the SRW-1 and SRPC-1 offer the ideal HD portable VTR system, especially for movie-making, commercial production, and high-end television production applications.

Features

- •High-quality HD field recording •Double speed recording
- •Multi-frame-rate 1080 HD Recording and Playback
- •12 channels of 24 bit audio

Supplied Accessories

Operational Manual (1)

Optional Accessories

BCT-HD12CL tapes Head cleaning videocassette tapes for HDCAM VTRs
RM-B750 Remote Control Unit
BC-M150 Ni-MH & Li-ion Battery Charger
BP-GL95 Rechargeable Lithium-ion Battery Pack
BP-GL65 Rechargeable Lithium-ion Battery Pack
RM-B150 Remote Control Unit
AC-DN2B
HKSR-102 Additional card to allow SR motion effects, especially with F23 camera.





HDCAM SR

Specifications General

Power requirement:

DC +12 V (DC +11 to +17 V)

Operating temperature:

0 to +40 °C

Storage temperature:

-20 to +60 °C

Humidity:

25 to 80% (relative humidity)

Mass:

8.5 kg (18 lb. 12 oz)

Dimensions (W x H x D):

279 x 399 x 139 mm (11 x 15 3/4 x 5 5/8

inches)

Recording format:

HDCAM-SR

Recording/Playback time:

Normal speed recording: 50 min. with

BCT-40SR cassette (24P mode)

Double speed recording: 25 min. with

BCT-40SR cassette (24P mode)

Fast forward/rewind time:

5 min.

Fast forward/rewind speed:

+11 times

Search speed (Shuttle mode):

±11 times

Input/Output signals

HD serial V/A input:

BNC x 2, Serial Digital (1.485 Gb/s), SMPTE-292M/SMPTE-372M/BTA-S004/

ITU-R.BT709

HD reference video input:

BNC x 1, Tri Level Sync, 0.6 Vp-p, 75 Ω ,

sync negative

SD reference video input:

BNC x 1, Black Burst, 0.286 Vp-p, 75 Ω ,

sync negative

Digital audio input:

BNC x 2 (AES/EBU)

Analogue audio input: XLR-3-pin x 4 (female)

Time code input:

BNC (x 1), 0.5 to 18 Vp-p, 10 k Ω

HD serial V/A output:

BNC x 2, serial digital (1.485 Gb/s),

SMPTE-292M/SMPTE-372M/BTA-S004/

ITU-R.BT709

HD serial V/A monitor output:

BNC x 1 (with character out), serial digital

(1.485 Gb/s),

SMPTE-292M/BTA-S004/ITU-R.BT709

SD serial V/A monitor output:

BNC x 1 (with character out), D1 serial digital (270 Mb/s), SMPTE-259M

Digital audio output (ch1 to ch12):

D-Sub multi connector

Analogue audio monitor output:

XLR-3pin x 2 (male)

Time code output:

BNC x 1, 1.0 Vp-p (75 Ω), 2.2 Vp-p

(10 kΩ)

Phones:

Stereo mini jack x 2 -17 dBu

Remote input:

D-sub 9-pin, (female), Sony 9pin remote

interface

Digital video performance

Sampling frequency:

Y: 74.25 MHz, Pb/Pr: 37.125 MHz G: 74.25 MHz, B: 74.25 MHz, R: 74.25

MHz

Quantization:

10 bits/sample

Compression:

MPEG-4 Studio Profile

Channel coding:

S-NR7

Error correction:

Reed-Solomon code

Digital audio performance

Sampling frequency:

48 kHz (synchronized with video)

Quantization:

24 bits/sample

Wow and flutter:

Below measurable level

Analogue audio performance

(Playback with the SRW-5000 VTR)

Sampling frequency:

24 bits/sample

Frequency response:

20 Hz to 20 kHz, +0.5 dB/-1.0 dB

(reference level)

Dynamic range:

More than 100 dB (1 kHz)

Distortion:

Less than 0.05% (at 1 kHz, reference level)

rosstalk.

Less than -80 dB (at 1kHz, between any

two channels)

SRW-5000/1 HDCAM-SR VTR

The SRW-5000/1 is a high-end HD digital videocassette recorder that employs the HDCAM-SR format. Applications range from HDTV to digital cinematography. Key features include high-quality 1080i, 1080P, or 720P recording and playback, a wide array of internal format conversions, including 4:4:4 to 4:2:2, legacy playback of HDCAM and Digital BETACAM tape formats.

Features

•1080 recording and playback at multiple frame rates: 23.98P, 24P, 25P, 29.97P, 50i, 59.94i •720P recording and playback • Switchable 4:4:4/4:2:2 recording •New HDCAM-SR tape format •High-quality MPEG-4 Studio Profile compression •12-channels of 24-bit audio at 48kHz •Internal format conversion •Legacy playback ·Long recording time on a single cassette of up to 155 minutes at 1080/24P •User-friendly controls •Frame-accurate insert/assemble editing •High-speed colour picture search • Dynamic Tracking playback Digital-Jog Sound • Dynamic Motion Control (DMC) playback • Pre-read editing • Confidence playback •Selectable picture modes including squeeze, letter box, and edge crop . Audio-output channel routing; can route audio to any HD-SDI or SDI output •Dual-sync operation •Off-speed playback capability •Programme play with audio pitch correction •Built-in Tele-File read/write capability •Metadata Handling •Newly designed DT-Head New tape formula • Easy maintenance





Supplied Accessories

PSW4 x 16screws, for rack mounting (4) CD-ROM (Operation manual & Maintenance manual part 1) (1) Memory Stick/PC Card adapter (1)

Optional Accessories

HKSR-5001/1 Format Converter Board HKSR-5002 Digital BETACAM Processor Board HKSR-5003 RGB Processor Boards RMM-110 Rack Mount Kit BCT-HD12CL tapes Head cleaning videocassette tapes for HDCAM VTRs

HDCAM SR

General

Specifications Power requirements:

100 to 240 V AC (±10 %, 50/60 Hz)

Power consumption:

230 W

Operating temperature:

+ 5 °C to +40 °C (+41 °F to +104 °F)

Storage temperature:

-20 °C to +60 °C (-4 °F to +140 °F)

Operating humidity:

25% to 80% (relative humidity)

Mass (approx.):

30 kg (66 lb. 2 oz)

Dimensions (W x H x D excluding protrusions): 427 x 218 x 544 mm (16 3/4 x 8 5/8 x 21 1/2

inches)

Tape speed:

94.2 mm/s (24P mode)

Digital recording/Playback time:

Max. 155 min with BCT-124SR cassette (24P mode)

Fast-forward/rewind time:

Approx. 3 min with BCT-124SR cassette

Search-speed range:

±50 times normal playback speed (24P mode)

Servo-lock time:

1.0 s or less (from standby on)

Load/unload time:

6.0 s or less

Input/Output

HD serial V/A input:

BNC (x 1 with monitoring loop-through), Serial digital (1.485 Gb/s), SMPTE 292M/BTA S-004/ITU-R.BT 709

HD/SD reference video input 1:

BNC (x 1, with loop-through), Tri Level sync, 0.6 Vp-p, 75 Ω, sync negative or Black

Burst, 0.286 Vp-p, 75 Ω, sync negative HD/SD reference video input 2 (optional

HKSR-5001 required)

BNC (x 1, with loop-through), Black Burst. 0.286 Vp-p, 75 Ω, sync negative

Digital-audio input (CH1/2, CH3/4, CH5/6,

CH7/8, CH9/10, CH11/12):

BNC (x 6, AES/EBU)

Time-code input:

XLR-3-pin type, (female x 1), 0.5 to 18 Vp-p, 10 k Ω , balanced

HD serial V/A output:

BNC (x 3, with character out), Serial digital (1.485 Gb/s), SMPTE 292M/BTA

S004/ITU-R.BT 709

Format-converter output (optional HKSR-5001 reauired):

BNC (x 2), with character out

Standard-definition V/A output:

BNC (x 3, with character out), D1 serial digital (270 Mb/s), SMPTE 259M

Analogue I/O down-converted output:

Composite: BNC (x 1 with character out) 1.0 Vp-p. 75 Ω, sync negative)

SD sync: BNC (x 1, Black Burst, 0.286 Vp-p,

75 Ω , sync negative)

Analogue I/O reference output:

1125 Sync: BNC (x2), Tri Level sync, 0.6 Vp-p, 75 Ω, sync negative

Digital-audio output (CH1/2 CH3/4 CH5/6 CH7/8 CH9/10 CH11/12):

BNC (x 6), AES/EBU, unbalanced Analogue-audio output (CH1/2/3/4/Cue):

XLR-3-pin type, (male x 5), +4 dBm, (with a 600 Ω load), low impedance, balanced

Monitor output (L/R):

XLR-3-pin type, (male x 2), +4 dBm, (with a 600 Ω load), low impedance, balanced

Time-code output:

XLR-3-pin type, (male x 1), 2.2 Vp-p low impedance, balanced

Phones:

JM-60 stereo phone jack, - ∞ to -12 dBu (with an 8 Ω load), unbalanced

Remote 1 input:

D-sub 9-pin, (female), Sony 9-pin remote

interface

Remote 1 input/output:

D-sub 9-pin, (female), Sony 9-pin remote interface

RS-232C:

D-sub 9-pin, (male)

Video control:

D-sub 9-pin, (female), (for optional

HKDV-503)

Parallel remote:

D-sub 50-pin, (female)

10Base-T modular jack

Digital-Video Performance

Sampling frequency:

Y: 74.25 MHz, PB/PR: 37.125 MHz

Quantization:

10 bits/sample

Compression:

MPEG-4 Studio Profile

Channel coding:

S-NR7

Error correction:

Reed-Solomon code

Error concealment:

Adaptive three-dimensional

Analogue Composite-Output Performance

Bandwidth

Y: 0 to 5.75 MHz +5.0 dB/-3.0 dB

S/N ratio:

56 dB or more Y/C delay:

15 ns or less

K Factor (2T Pulse):

1 % or less

Output SCH phase:

Based upon RS-170A/CCIR R.624-3

Digital-Audio Performance

Sampling frequency:

48 kHz (synchronized with video)

Quantization:

24 bits/sample

Wow & flutter:

Below measurable level

Headroom:

20 dB (or 18 dB selectable)

Analogue Audio-Output Performance

D/A quantization:

24 bits/sample

Frequency response:

20 Hz to 20 kHz, +0.5 dB/-1.0 dB (0 dB at

1 kHz)

Dynamic range:

More than 100 dB (At 1 kHz)

Distortion:

Less than 0.05% (At 1 kHz, reference level)

Less than -90 dB (At 1 kHz, between any

two channels) De-emphasis:

T1 = 50 μ s, T2 = 15 μ s (auto on/off)

SRW-5500/1 HDCAM-SR VTR

The SRW-5500/1 is a high-end HD digital videocassette recorder that employs the HDCAM-SR format. This VTR also allows recording and playback of the well-proven HDCAM format. Applications range from HDTV to digital cinematography. Key features include high-quality 1080i, 1080PsF, or 720P recording and playback, a wide array of internal format conversions, including 4:4:4 to 4:2:2, legacy playback of Digital BETACAM tape formats.

Features

•1080 recording and playback at multiple frame rates: 23.98PsF, 24PsF, 25PsF, 29.97PsF, 50i, 59.94i in HDCAM and HDCAM-SR formats •720P recording and playback (HDCAM-SR only) •Switchable 4:4:4/4:2:2 recording (option) •High quality MPEG-4 studio profile compression •High quality audio recording: 12 channels, 24-bit audio at 48kHz in the HDCAM-SR format •Internal format conversion including up and down conversion. 4:4:4 to 4:2:2 conversion •Playback of Digital Betacam format tapes . Long recording time on a single cassette of up to 155 minutes at 1080/24PsF •User friendly controls •Frame accurate insert/assemble editing •High speed colour picture search • Dynamic tracking playback Digital jog sound • Dynamic Motion Control (DMC) playback • Pre-read editing • Confidence playback •Selectable picture modes including squeeze, letter box and edge crop . Audio output channel routing: can route audio to any HD-SDI or SDI output •Dual-sync operation •Off-speed playback capability •Programme play with audio pitch correction •Built-in tele-file read/write capability •Metadata handling •Newly designed DT-Head •New HDCAM-SR tape formula for high reliability and durability •Easy maintenance

Supplied Accessories

PSW4 x 16 screws for rack mounting (4) CD-ROM Operation manual and Maintenance Manual part 1 (1) Memory Stick / PC card adaptor (1)

Optional Accessories

HKSR-5001/1 Format Converter Board
HKSR-5002 Digital BETACAM Processor Board
HKSR-5003 RGB Processor Boards
RMM-110 Rack Mount Kit
BCT-HD12CL tapes Head Cleaning
Videocassette Tapes for HDCAM VTRs
BCT-HD Series HDCAM Tapes
BCT-SR Series HDCAM-SR Tapes





HDCAM SR

Specifications General

Power requirements:

100 to 240 V AC (±10%, 50/60 Hz)

Power consumption:

230 W (without options)/320 W (with all option boards installed)

Operating temperature:

+5°C to +40°C (+41°F to +104°F)

Storage temperature:

-20°C to +60°C (-4°F to +140°F)

Operating humidity:

25% to 80% (relative humidity)

Mass (approx.):

30 kg (66 lb 2 oz)

Dimensions (W x H x D excluding protrusions): 427 x 218 x 544 mm

(16 ¾ x 8 % x 21 ½ inches)

Tape speed:

HDCAM-SR: 94.2 mm/s (24 Hz)

HDCAM: 77.4 mm/s (24 Hz)

Digital Betacam: 96.7 mm/s

HDCAM-SR/HDCAM recording/

Playback time

155 min with BCT-124SR cassette (24 Hz)

with BCT-124SRL

Digital Betacam playback time

124 minutes with BCT-D124L tape

Fast-forward/rewind time

Approx. 4 min with BCT-124SR cassette

Search speed range

Shuttle mode

HDCAM-SR: Still to ±50 times normal playback speed (24 Hz)

HDCAM: Still to ±58 times normal

playback speed (25 Hz)

Digital Betacam: Still to ±50 times normal

playback speed

Variable mode

HDCAM-SR: -1 to 2 times normal

playback speed

HDCAM: -1 to 2 times normal

playback speed

Digital Betacam: -1 to 3 times normal

playback speed

Jog Mode

HDCAM-SR: Still to ±2 times normal

playback speed

HDCAM: Still to ±3 times normal

playback speed

Digital Betacam: Still to ±3 times normal

playback speed

Dynamic Tracking Range

-1 to +2 times normal playback speed

Servo-lock time

1.0 sec or less (from standby on)

Load/unload time

7.0 sec or less

Input/Output

HD-SDI input A

BNC (1+ 1 for monitoring loop-through), Serial digital (1.485 Gb/s),

SMPTE 292M/BTA S-004/ITU-R.BT 709

HD-SDI input B (optional HKSR-5003 required) BNC (1+ 1 for monitoring loop-through),

Serial digital (1.485 Gb/s),

SMPTE 292M/BTA S-004/ITU-R.BT 709 HD/SD reference video input 1

BNC (1 + 1 for loop-through), Tri Level sync, 0.6 Vp-p, 75 Ω, sync negative or Black Burst, 0.286 Vp-p, 75 Ω , sync negative

HD/SD reference video input 2

(optional HKSR-5001 required)

BNC (1 + 1 for loop-through).

Tri Level sync, 0.6 Vp-p,

75 Ω , sync negative or Black Burst, 0.286 Vp-p, 75 Ω , sync negative

Digital-audio input (CH1/2, CH3/4,

CH5/6, CH7/8, CH9/10, CH11/12)

BNC (x6, AES/EBU), unbalanced

Analogue audio input (Cue)

XLR-3-pin, female x1

Time-code input

XLR-3-pin type, (female x1), 0.5 to 18 Vp-p,

10 k Ω . balanced

HD-SDI output

BNC (x3, with character out), Serial digital (1.485 Gb/s).SMPTE 292M/BTA

S004/ITU-R.BT 709

Format-converter output

(optional HKSR-5001 required)

BNC (x2), with character out

SD-SDI output

BNC (2 + 1 with character out),

D1 serial digital (270 Mb/s), SMPTE 259M

Analogue down-converted output

Composite: BNC (x1 with character out)

1.0 Vp-p, 75 Ω , sync negative)

SD sync: BNC (x1, Black Burst, 0.286 Vp-p,

75 Ω , sync negative)

Analogue reference output 1125 Sync: BNC (x2), Tri Level sync,

0.6 Vp-p, 75 Ω , sync negative

Digital-audio output (CH1/2 CH3/4

CH5/6 CH7/8 CH9/10 CH11/12)

BNC (x6), AES/EBU, unbalanced

Analogue-audio output (CH1/2/3/4/Cue*)

XLR-3-pin type, (male x5), +4 dBm,

(with a 600 Ω load),

low impedance, balanced

Monitor output (L/R)

XLR-3-pin type, (male x2), +4 dBm, (with a 600 Ω load), low impedance, balanced

Time-code output

XLR-3-pin type, (male x1),

2.2 Vp-p low impedance, balanced

Phones

JM-60 stereo phone jack, -∞ to 12 dBu (with an 8 Ω load), unbalanced

Remote 1 input

D-sub 9-pin, (female), Sony 9-pin remote interface

Remote 1 input/output

D-sub 9-pin, (female),

Sony 9-pin remote interface

Video control

D-sub 9-pin, (female),

(for optional HKDV-900)

Parallel remote

D-sub 50-pin, (female)

10Base-T modular jack

Digital-Video Performance

Sampling frequency HDCAM-SR: Y: 74.25 MHz,

Pb/Pr: 37.125 MHz, G/B/R: 74.25 MHz

Ouantization

10 bits/sample

Compression

HDCAM-SR: MPEG-4 Studio Profile

HDCAM: Coefficient Recording System

Channel coding

S-NRZ

Error correction

Reed-Solomon code

Error concealment

Adaptive three-dimensional

Analogue Composite-Output Performance

Bandwidth Y: 0 to 5.75 MHz +5.0 dB/-3.0 dB

S/N ratio

56 dB or more

Y/C delay

15 ns or less K Factor (2T Pulse)

1% or less

Output SCH phase

Based upon RS-170A/CCIR R.624-3

Digital-Audio Performance

Sampling frequency

48 kHz (synchronized with video)

Quantization

HDCAM-SR: 24 bits/sample

HDCAM: 20 bits/sample

Wow & flutter

Below measurable level

Headroom

20/18/16/12 dB

D/A quantization 24 bits/sample

Frequency response

Analogue Audio-Output Performance

20 Hz to 20 kHz, +0.5 dB/-1.0 dB (0 dB at 1 kHz)

Dynamic range

More than 100 dB (At 1dB at 1 kHz)

Distortion

Less than 0.05% (At 1 kHz, reference level)

Crosstalk

De-emphasis

Less than -80 dB (At 1 kHz, between any two channels)

 $T1 = 50 \mu s$, $T2 = 15 \mu s$ (auto on/off)

F23 Digital Cinematography Camera

Features

•Full-bandwidth RGB 4:4:4 HD digital image capturing Variable frame rate image capturing -- from 1 fps to 60 fps in 4:2:2 mode and from 1 fps to 30 fps in 4:4:4 mode •Newly developed three 2/3-inch type progressive CCDs deliver a 1920 x 1080 (H x V) full HD resolution image •High sensitivity of T10 (at 23.98P mode) •14-bit A/D converter •Multi-format image capturing •Progressive mode: 1080/23.98P. 24P. 25P. 29.97P. 50P. 59.94P •Interlace mode: 1080/50i, 59.94i •Compact and lightweight -- weighing just 5 kg (11 lb) without a viewfinder •The SRW-1 recorder can dock directly to the top or rear of the F23 • Durable B4 lens mount to withstand frequent lens changes . Compatible with film camera accessories •Intuitive controls - "Cine Mode" and "Custom Mode" • Supplied Assistant Panel provides intuitive remote control of basic camera and VTR operations •Supplied Interface Box allows flexible connection to a range of peripherals -- two HD-SDI outputs and two-channel analog audio inputs •Built-in down-conversion output •12 V and 24 V DC accessory power outputs •Twin viewfinder operation capability ·Memory Stick storage of camera setup parameters

•Assignable switches •S-LOG gamma •Hyper gamma • Customizable gamma curve by CVPFileEditor software •Multi-matrix control •Knee saturation correction •Low key saturation correction •Triple skin tone detail control



Supplied Accessories

Interface box (1) Assistant panel (1) Cable for assistant panel (1) Assistant panel hangar (1) Center handle (1) LEMO 8-pin connector (1) Operation manual (1)

Optional Accessories

HDVF-C35W Multi-format HD Color LCD Viewfinder HDVF-C950W Multi-format HD Color LCD Viewfinder VFH-990 9-inch Type Viewfinder Sports Hood RM-B750 Remote Control Unit RM-B150 Remote Control Unit MSU-900 Master Setup Unit MSU-950 Master Setup Unit AC-DN2B AC Adaptor/Charger AC-DN10 AC Adaptor/Charger BKP-L551 Li-ion Battery Adaptor BP-GL95 Rechargeable Lithium-ion Battery

BC-M150 Ni-MH & Li-ion Battery Charger BC-L70 Li-ion Battery Charger

BC-L500 Li-ion Battery Charger

Pack

note: AC-DN2B, AC-DN10, BKP-L551, and BP-GL95 cannot be used in the direct docking configuration of the F23 and SRW-1.

Specifications General

Mass

Approx. 5.0 kg (11 lb) Power requirement DC 10.5 V to 17 V Power consumption

56 W (without lens, viewfinder, at 23.98PsF mode)

Operating temperature

0 °C to 40 °C (32 °F to 104 °F)

Storage temperature

-20 °C to +60 °C (-4 °F to +104 °F)

Camera section

Pickup device

3-chip 2/3-inch type Progressive CCD

Aspect ratio

16:09

Effective picture elements (H x V)

1920 x 1080

Optical system

F1.4 prism system

Built-in filters

A: 3200K, B: 4300K, C: 5600K, D: 6300K,

F: ND0 3 (1/2ND)

1: Clear, 2: ND0.6 (1/4ND), 3: ND1.2 (1/16ND), 4: ND1.8 (1/64ND), 5: CAP

Lens mount

Sony bayonet mount (B4)

Sensitivity (at 2000 lx, 89.9% reflective)

T10 (at 23.98PsF)

Registration

Within 0.02% (all zones, without lens)

Distortion

Below measureable level (without lens)

Setup card

Memory Stick PRO

Horizontal resolution 1000 TV lines

Signal inputs/outputs

Genlock video input

BNC type x1, 1.0 Vp-p, 75 Ω

Audio CH1/CH2 input (with supplied interface box)

XLR-3-31 type (Female), line/mic/mic

+48 V selectable

Test output

BNC type x1, VBS/HD Y

Dual-Link HD-SDI output

(with supplied interface box)

BNC type x2

Monitor output

BNC type x2, HD-SDI (4:2:2)

DC input

Lemo 8-pin (Male) x1, DC 10.5 V to 17 V, DC 20 V to 30 V

DC input (with supplied interface box)

XLR-4-pin type (Male) x1

DC 12 V: 11-pin x1, max. 4 A

DC 24 V: 3-pin x1, max. 5.5 A

12-pin x1

Remote

8-pin x1

Viewfinder

20-pin x2

External input/output

Lemo 5-pin (Female) x1

Network

RJ-45 type x1, 10BASE-T/100BASE-TX

HKSR-5001/1 Format Converter Board

Optional board for the SRW-5000/1 and SRW-5500/1 HDCAM-SR VTR

Features

Provides a wide range of format conversions, both upconversion and downconversion, from HD-SDI (both 1080 & 720) to SDI, and from 4:4:4 to 4:2:2
2-3 pull-down conversion capability •1080/720P cross-conversion

Applicable Models

SRW-5000/1 HDCAM-SR VTR SRW-5500/1 HDCAM-SR VTR



HKSR-5002 Digital Betacam Processor Board

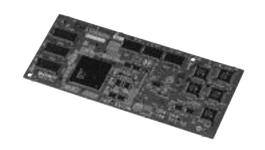
Optional board for the SRW-5000/1 and SRW-5500/1 HDCAM-SR VTR

Features

 Provides the SRW-5000/1 and SRW-5500/1 with the capability to playback Digital Betacam tapes for output in both HD and SD

Applicable Models

SRW-5000/1 HDCAM-SR VTR SRW-5500/1 HDCAM-SR VTR



HKSR-5003 RGB Processor Boards

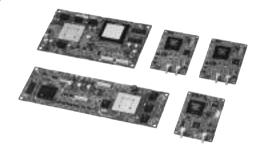
Optional board for the SRW-5000/1 and SRW-5500/1 HDCAM-SR VTR

Features

•Provides the SRW-5000/1 and SRW-5500/1 with the capability to record and playback RGB (4:4:4) signals

Applicable Models

SRW-5000/1 HDCAM-SR VTR SRW-5500/1 HDCAM-SR VTR



HKSR-102 SR Motion processor board

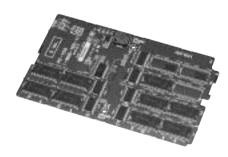
Optional board for the SRW-1 HDCAM SR portable VTR

Features

•When added to the SRW-1 and the SRW-1 is docked to the F23 digital cinema camera, allows SR Motion effects such as 1 to 60 FPS recording and time-lapse.

Applicable Models

SRW-1 HD Portable Digital Video Recorder



SONY

DVCAM

DSR-4	450\	NS	P	L							1	40
OSR-4	400l	PK									1	42
OSR-4	400l	PL									1	43
DSR-2	250I	2/1									1	44
DSR-I	PD1	70	Ρ								1	46
DSR-2	2000	DAF)								1	48
DSR-	1800	DAF)									50
DSR-	1600	DAF)									52
DSR-	1500	DAF)								1	54
OSR-4	45A	Ρ									1	56
DSR-	50P										1	57
DSR-I	DR1	00	0	4	Ρ						1	58

VCAM

DSR-450WSPL DVCAM Camcorder

Features

•2/3-inch type power HAD EX CCD •Switchable aspect ratio (16:9/4:3) •12-bit A/D conversion •Advanced digital signal processing (ADSP) •DVCAM/DV selectable recording •Long recording time: up to 276 minutes at DV (SP) mode and up to 184 minutes at DVCAM mode with a standard-size cassette . High-Quality audio recordings •Film-like images with progressive mode •Digital output to external devices via an i.LINK interface Quick FF/REW capabilities
 Rugged and ergonomic design •Compact and lightweight: approximately 6.5 kg (14 lb 5 oz) including the DXF-801 viewfinder, microphone, BP-GL65 battery, mini-size DVCAM cassette and VCL-917BY lens (supplied with the DSR-400PK package) •Low power consumption of approximately 17 W (with the DC 12 V power supply, REC mode, viewfinder and LCD monitor off) •User-friendly menu controls •Optical ND filter and electric CC filter •Battery-remaining display on the viewfinder and LCD monitor •Intelligent light system •2.5-inch (*1) type colour LCD monitor •Supplied DXF-801 viewfinder •User assignable functionbuttons •Turbo gain: max. 36 dB •Slow shutter mode: 1 to 8 to 16 frames accumulation •Optional camera adaptor for wireless microphone receiver •Memory stick system stores camera setup parameters •Adjustable shoulder pad •Versatile interfaces: SDI output and composite input with the optional boards . Camera remote control via Sony RM-B150/B750 •TruEye processor •Adaptive highlight control •Triple skin tone detail control •Electronic soft focus •Selectable gamma table including film-like gamma ·Variable black gamma range ·Auto Tracing White balance (ATW) •Multi-matrix function •Colour temperature



(*1) Viewable area measured diagonally.

control •Interval recording

Supplied Accessories

DXF-801 Viewfinder with microphone holder (1) VCT-U14 Tripod Adaptor (1) External microphone (1) Shoulder strap (1)

Optional Accessories

LC-H300 Hard Carrying Case
CA-WR855 Camera Adaptor
WRR-855B UHF Synthesized Diversity Tuner
ECM-678 Electret Condenser Microphone
ECM-674 Electret Condenser Microphone
DX-51 5-inch Monochrome Viewfinder
RM-B750 Remote Control Unit
RM-B150 Remote Control Unit
BP-GL95 Rechargeable Lithium-ion Battery Pack
BP-L605 Rechargeable Lithium-ion Battery Pack
BP-L605 Rechargeable Lithium-ion Battery Pack
BC-L70 Li-ion Battery Charger
BC-L500 Li-ion Battery Charger

BC-M150 Ni-MH & Li-ion Battery Charger AC-DN10 AC Adaptor/Charger LC-DS300SFT Soft Carrying Case LCR-1 Camera Rain Cover CCFD-L Cables DV Cables (6-pin to 4-pin) CCF-L Cables DV Cables (6-pin to 6-pin) CBK-SC01 Analogue Composite Input Board CBK-SD01 SDI Output Board

DC output

4-pin (for wireless microphone receiver), DC 12 V (max. 0.2 A) Battery terminal 5-pin

Specifications	Camera Performance	Video Performance
General	Pickup device	Recording format
Power requirements	Pickup device	Video
DC 12 V (11 to 17V)	3-chip 2/3-inch type Power HAD EX CCD Aspect ratio	DVCAM/DV (SP) (25 Mb/s) Audio
Power consumption Approx. 17 W (with DC 12 V power supply,	16:9/4:3 switchable	2 ch/16-bit/48 kHz, 2 ch/12-bit/32 kHz
REC mode, viewfinder off, LCD monitor off)	Total picture elements (H x V)	Record/playback time
Operating temperature	1038 x 1188	DVCAM: 184 min (with the PDV-184ME),
0 to +40 °C (+32 to +104 °F)	Effective picture elements (H x V)	DV SP: 276 min (with the PDV-184ME)
Storage temperature	980 x 1064	Fast forward time
-20 to +60 °C (-4 to +140 °F)	Optical system	Approx. 45 s (with the PDVM-40ME),
Operating humidity	Spectral system	approx. 2 min 30 s (with the PDV-184ME)
25 to 85%	F1.4 prism (with quarts filter)	Rewind time
Mass Approx.	Built-in filters	Approx. 45 s (with the PDVM-40ME),
6.5 kg (14 lb 5 oz) (with viewfinder,	1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND	approx. 2 min 30 s (with the PDV-184ME)
microphone, BP-GL65 battery, mini-size	Lens mount	Recommended recording media
DVCAM cassette, VCL-917BY lens)	2/3-inch type Sony bayonet mount	PDV-184ME/124ME/94ME/64ME/34ME/
Continuous operating time	Electrical characteristics	184N/124N/94N/64N/34N, PDVM-184ME/
Approx. 300 min. with BP-GL95 battery,	Signal system	124ME/94ME/64ME/34ME/184N/124N/
REC mode	PAL colour system	94N/64N/34N
Signal inputs/outputs	Scan format	Sampling frequency
Video inputs	625/50i, 625/25P	Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz
Analogue composite	Sync system	Quantization
BNC, 1.0 Vp-p, 75 Ω	Internal and External with the VBS or	8 bits
(with the CBK-SC01)	BS signal	Microphone
Genlock video	A/D conversion	Frequency response
BNC, 1.0 Vp-p, 75 Ω	12 bits	48 kHz: 20 Hz to 20 kHz +0.5/-1.0 dB,
Audio input (CH-1/2)	Sensitivity	32 kHz: 20 Hz to 14.5 kHz +0.5/-1.0 dB
XLR-3 (2), female, -60 dBu/+4 dBu,	F11 (typical) (2000 lx, 89.9% reflectance)	Dynamic range
10 kΩ, balanced	Minimum illumination	More than 80 dB
Microphone input	0.5 lx (F1.4 lens, +36 dB gain,	Distortion (at 1 kHz, emphasis ON, reference level)
XLR-3, female, -60 dBu	shutter off), 0.03 lx (with slow shutter	Less than 0.12%
Time code input	mode at 16 frames accumulation)	(at 1 kHz, reference level, 48 kHz)
BNC, 0.5 to 18 Vp-p, 10 kΩ	Smear level	Built-in LCD Monitor
Video outputs SDI	-140 dB (typical) Video S/N ratio	Built-in LCD monitor 2.5-inch type colour LCD monitor, resolution:
BNC, 0.8 Vp-p, 75 Ω	63 dB (typical)	214,000 (964 x 222) pixels
(with the CBK-SD01)	Horizontal resolution	Viewfinder
i.LINK	850 TV lines (4:3 mode),	CRT
i.LINK, 6-pin IEEE 1394-based	800 TV lines (16:9 mode)	1.5-inch type monochrome
Analogueue composite	Vertical resolution	Indicators
BNC, 1.0 Vp-p, 75 Ω	530 TV lines (with EVS) and	REC TALLY (2), TAKE TALLY, BATT,
Audio output	480 TV lines (without EVS)	SHUTTER, GAIN UP
(CH-1/2) Pin-jacks (2), -10dBu, 47 kΩ	at 625/50i mode	Horizontal resolution
Time code output	575 TV lines at 625/25P mode	600 TV lines
BNC, 1.0 Vp-p, 75 Ω	Shutter speed	Microphone
Monitor output	1/60, 1/125, 1/250, 1/500, 1/1000,	Electret condenser microphone
BNC, 1.0 Vp-p, 75 Ω	1/2000 s at 625/50i mode	(detachable)
Earphone output	1/33, 1/50, 1/100, 1/125, 1/250, 1/500,	
Mini-jack	1/1000, 1/2000 s at 625/25P mode	
Other inputs/outputs	ECS	
Lens	50 to 6000 Hz at 625/50i mode	
12-pin	25 to 6000 Hz at 625/25P mode	
VF	Slow shutter	
20-pin	1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2,	
Remote	1/3.6, 1/3.1, 1/1.6 s (1 to 8, 16 frames)	
8-pin	Gain selection	
Wireless microphone	-3, 0, 3, 6, 9, 12, 18, 24, 30, 36 dB	
7-pin	(for GAIN LOW, GAIN MID, GAIN HIGH	
Light 2-pin, DC 12 V, max. 50 W	and GAIN TURBO positions)	
DC input		
XLR-4-pin, male, DC 11 to 17 V		
1.2.1 pm, maio, 50 11 to 17 v		

DSR-400PK DVCAM Camcorder

Features

Three 2/3-inch type Power HAD EX CCDs •2.5-inch colour LCD monitor •4:3 aspect ratio •12-bit A/D conversion •Advanced DSP (Digital Signal Processing)

- •TruEye precessing for faithful colour reproduction
- •Skin Tone Detail with auto detection of active area
 •Playback capability of DV recorded tapes (SP mode
 only) •Long recording time: up to 184 minutes with a
 standard-size casette and 40 minutes with a minisize
 cassette •Interval recording •Scene file store on Memory
 Stick for quick and convenient set-up •Assignable buttons
 •i.LINK (DV) output •INFO battery system with
 BP-GL95/GL65 batteries for precise battery remain
 indication •Adjustable shoulder pad (The package
 includes Fujinon 17x zoom lens)



Supplied Accessories

DXF-801 Viewfinder
Microphone
VCT-U14 Tripod Adaptor
VCL-917BY Zoom Lens
Shoulder strap
Lens mount cap
Operating instructions
VCL-917BY Zoom Lens

Optional Accessories

LC-H300 Hard Carrying Case CA-WR855 Camera Adaptor WRR-855B UHF Synthesized Diversity Tuner ECM-678 Electret Condenser Microphone ECM-674 Electret Condenser Microphone DX-51 5-inch Monochrome Viewfinder BP-GL95 Rechargeable Lithium-ion Battery Pack BP-GL65 Rechargeable Lithium-ion Battery Pack BP-L60S Rechargeable Lithium-ion Battery Pack BC-L70 Li-ion Battery Charger BC-L500 Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger AC-DN10 AC Adaptor/Charger LC-DS300SFT Soft Carrying Case LCR-1 Camera Rain Cover CCFD-L Cables DV Cables (6-pin to 4-pin) CCF-L Cables DV Cables (6-pin to 6-pin)

DSR-400PL DVCAM Camcorder

Features

Three 2/3-inch type Power HAD EX CCDs •2.5-inch colour LCD monitor •4:3 aspect ratio •12-bit A/D conversion •Advanced DSP (Digital Signal Processing)

- •TruEye precessing for faithful colour reproduction
- •Skin Tone Detail with auto detection of active area
 •Playback capability of DV recorded tapes (SP mode
 only) •Long recording time: up to 184 minutes with a
 standard-size casette and 40 minutes with a minisize
 cassette •Interval recording •Scene file store on Memory
 Stick for quick and convenient set-up •Assignable buttons
 •i.LINK (DV) output •INFO battery system with
 BP-GL95/GL65 batteries for precise battery remain
 indication •Adjustable shoulder pad The package
 does not include lens)



Supplied Accessories

DXF-801 Viewfinder Microphone VCT-U14 Tripod Adaptor Shoulder strap Lens mount cap Operating instructions

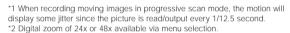
Optional Accessories

LC-H300 Hard Carrying Case CA-WR855 Camera Adaptor WRR-855B UHF Synthesized Diversity Tuner ECM-678 Electret Condenser Microphone ECM-674 Electret Condenser Microphone DX-51 5-inch Monochrome Viewfinder BP-GL95 Rechargeable Lithium-ion Battery Pack BP-GL65 Rechargeable Lithium-ion Battery Pack BP-L60S Rechargeable Lithium-ion Battery Pack BC-L70 Li-ion Battery Charger BC-L500 Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger AC-DN10 AC Adaptor/Charger LC-DS300SFT Soft Carrying Case LCR-1 Camera Rain Cover CCFD-L Cables DV Cables (6-pin to 4-pin) CCF-L Cables DV Cables (6-pin to 6-pin)

DSR-250P/1 DVCAM Camcorder

Features

•Compact and lightweight: 4.4 kg (9 lb 11 oz) •Newly developed 1/3-inch type CCDs for accurate colour reproduction •Capable of both interlace scan, for moving images, and progressive scan, for still images or shooting a moving subject and exporting a frame of the image as a still picture •DSP (Digital Signal Processing) •2.5-inch (200,000 dot) colour LCD monitor •12x lens⁻² with Super SteadyShot system •New, high-resolution 1.5-inch black & white viewfinder •16:9 recording mode available (electronically processed) •Recording and playback capability with standard and mini-size DVCAM and DV tapes (SP mode only) •Three XLR audio input connectors for professional microphones (one at front, two at rear) Audio dubbing capability (48 kHz/16-bit or 32 kHz/12-bit selectable) •Long recording time: 184 minutes with a standard-size cassette in DVCAM mode, or 270 minutes in DV SP mode •Time/date data superimposition on output pictures • Digital still camera functions with Memory Stick •Light output (DC 12 V, max. 30 W) and additional DC 12 V out for optional accessories •Time code preset capability •i.LINK (DV) interface •LANC interface for simple editing with a LANC-equipped recorder or editing system •Supplied RMT-811 Remote Commander



Supplied Accessories

DXF-801 Electronic Viewfinder (1) ECM-NV1 Monaural Microphone (1) RMT-811 Remote Commander and R6 Batteries (2) Lens Hood (1) Lite Hood Cap (1)

Optional Accessories

CAC-12 Camera Microphone Holder
VCT-U14 Tripod Adaptor
BC-M150 Ni-MH & Li-ion Battery Charger
BC-L70 Li-ion Battery Charger
BP-L60S Rechargeable Lithium-ion Battery
Pack
AC-DN2B AC Adaptor
VMC-IL46 cables 4-pin <-> 6-pin i.LINK
Cable
VMC-IL66 cables 6-pin <-> 6-pin i.LINK
Cable
CCF-L Cables DV Cables (6-pin to 6-pin)
VCL-H60758 Wide Conversion Lens for the
DSR-250P/1, DSR-170

VCL-HG1758 Tele Conversion Lens VF-58PK Filter Kit

ECM-678 Electret Condenser Microphone ECM-678 Electret Condenser Microphone (E)

ECM-674 Electret Condenser Microphone

ECM-674 Electret Condenser Microphone (E)



DVCAM Specifications

General

Power requirements:

DC 12 V (11 to 17 V)

Power consumption:

10.5 W using the viewfinder

12.1 W using the viewfinder and LCD

monitor

Operating temperature:

0 to 40 °C (32 to 104 °F)

Storage temperature:

-20 to 60 °C (-4 to 140 °F)

Dimensions (W x H x D):

241.7 x 251.2 x 508.8 mm (9 5/8 x 10 x 20 1/8 inches) including microphone

Mass (camcorder only):

Approx. 4.4 kg (9 lb 11 oz)

Camera Parts

Lens:

12:1 Variable Speed (1.2-22 s) zoom lens F =6.0 to 72.0 mm; F1.6 to 2.4; Filter

Diameter 58mm

Focus:

Auto/Manual (ring)/Infinity/One push auto Imaging device:

Three 1/3-inch type CCDs, 450,000 pixels, Progressive/Interlace Scan

White balance:

Auto/One-push(Memory A/Memory B)/Outdoor (5800 K)/Indoor (3200 K)

Shutter speed:

1/3, 1/6, 1/12, 1/25, 1/50, 1/60, 1/100,

1/120, 1/150,

1/215, 1/300, 1/425,1/600, 1/1000, 1/1250,

1/1750.

1/2500, 1/3500, 1/6000,1/10000 second

Exposure:

Auto/Manual

Minimum illumination:

2 lx

Horizontal resolution:

530 TV lines

Viewfinder:

1.5-inch type Black & White CRT, Zebra

Pattern (DXF-801)

VTR Parts

Audio signal

Rec: 48 kHz/16-bit, 32 kHz/12-bit Playback: 48 kHz/16-bit, 32 kHz/12-bit,

32 kHz/16-bit, 44.1 kHz/16-bit

Built-in speaker:

Dynamic Speaker

LCD:

TFT Active Matrix, 2.5-inch, 200,640 dots (880 x 228)

Tape speed:

Approx. 28.2 mm/s (DVCAM mode) Approx. 18.8 mm/s (DV SP mode)

Maximum recording time:

184 minutes (DVCAM mode), 270 minutes (DV SP mode) with PDV-184ME cassette 40 minutes (DVCAM mode), 60 minutes

(DV SP mode) with PDVM-40ME cassette

Video signal:

CCIR Standard, PAL colour system

Connectors

Video IN/OUT:

RCA pin: (1)

Luminance signal: 1 Vp-p, 75 Ω ,

unbalanced, sync negative

Monitor OUT:

BNC pin: (1)

Luminance signal: 1 Vp-p, 75 Ω,

unbalanced, sync negative

Au:dio IN/OUT

RCA pin: (2)

245 mV, Output impedance with less than

2.2 k, Input impedance with more than

47 k

S-Video IN/OUT:

Mini-DIN 4 pin: (1)

Luminance signal: 1 Vp-p, 75 Ω,

unbalanced, Chrominance signal: 0.3 Vp-p

(PAL)

Audio IN:

XLR 3-pin (female) x 3, -60 dBu 6.8 k,

+4 dBu 6.8 k (0 dBu = 0.775 V rms)

DV IN/OUT:

6-pin (with lock): (1)

LANC:

Stereo minimini jack (2.5 mm): (1)

Headphone:

Stereo mini jack (3.5 mm): (1)

External DC IN:

12 V, XLR 4-pin (male): (1)

DC OUT for Light:

12 V, max. 30 W: (1)

DC OUT:

12 V, 4 pin: (1)

DSR-PD170P DVCAM Camcorder

The DSR-PD170P is a 1/3-inch type 3CCD Digital Camcorder that uses the DVCAM format. Like its predecessor, the market acclaimed DSR-PD150P, the DSR-PD170P addresses a broad spectrum of applications from video journalism, wedding and event videography, corporate and training productions, up to broadcast newsgathering, areas where picture quality, reliability, and mobility are prime concerns. In addition to inheriting all the attractive features of the DSR-PD150P, the DSR-PD170P offers a range of enhancements for further improved audio and video quality and operability, and adds new accessories to meet even more diverse shooting scenarios. The DSR-PD170P is designed to become a handy tool for professional shooting in a wide range of applications.



Features

•Three 1/3-inch type CCDs Camera System •Advanced HAD Technology •Low Light Shooting •Optical 12x Zoom Lens •Optical Super SteadyShot System •Large 180,000-dot LCD Precision Black & White Viewfinder •DVCAM Recording •16:9 Widescreen Acquisition Mode •DVCAM/DV Selectable Recording •2 Ch. XLR Audio Input and Supplied Directional Microphone •16-bit/12-bit PCM Digital Sound and Audio Dub Capability •Newly Developed Hybrid LCD Monitor with a High Resolution of more than 210,000 Pixels •Simultaneous Operation of LCD Monitor and Viewfinder •Large-sized Handle •On-handle Zoom Lever and Rec. Start/Stop Button •Supplied Lens Hood with Built-in Lens Cap •Supplied

Wide Conversion Lens and Additional Lens Hood

Supplied Accessories

AC-L15 AC Adaptor (1)
ECM-NV1 Electret Condenser Microphone (1)
NP-F330 info LITHIUM Rechargeable Battery
Pack (1)
VCL-HG0758 Wide Conversion Lens (1)
LSF-S58 Lens Hood for Wide Conversion Lens
and Hood Cap (1)
Lens Hood with Built-in Lens Cap (1)
RMT-811 Remote Commander and R6 Batteries (2)
Carrying Belt (1)
I.LINK Cable Strap (1)
Stereo AV Cable (1)

Optional Accessories

2NP-F970/B InfoLITHIUM Rechargeable
Battery Pack
NP-F570 InfoLITHIUM Rechargeable Battery Pack
NP-F770 InfoLITHIUM Rechargeable Battery Pack
NP-F970 InfoLITHIUM Rechargeable Battery Pack
NP-F970 InfoLITHIUM Rechargeable Battery Pack
AC-VQ1050B Battery Charger
VCL-HG1758 Tele Conversion Lens
VF-58PK Filter Kit
VCT-PG11RMB Tripod with RM-1BP
RM-1BP LANC Remote Contoller
VMC-IL44 cables 4-pin <-> 4-pin i.LINK Cable
VMC-IL46 cables 4-pin <-> 6-pin i.LINK Cable
PDV-ME Digital Videocassette Tapes
MSA-A "Memory Stick" IC Memory Media

UWP-C1 UHF Synthesized Wireless Microphone Package (62CE7) UWP-C1 UHF Synthesized Wireless Microphone Package (67CE7) ECM-678 Electret Condenser Microphone (U) ECM-674 Electret Condenser Microphone (U)

DVCAM Specifications

General

Power Requirements:

DC 7.2 V (Battery), DC 8.4 V (AC adaptor)

Power Consumption:

Rec. with LCD viewfinder only:

4.7 W

Rec. with LCD monitor only:

Rec. with LCD viewfinder and LCD

monitor:

5 7 W

Playback on LCD:

4.1 W

Operating Temperature:

0 to 40 °C (32 to 104 °F)

Storage Temperature:

-20 to 60 °C (-4 to 140 °F)

Dimensions (W x H x D):

118 x 180 x 393 mm (4 3/4 x 7 1/8 x 15 1/2

inches) (camcorder only)

133 x 180 x 456 mm (5 1/4 x 7 1/8 x 18

inches) including microphone

Mass (camcorder only):

Approx. 1.6 kg (3 lb 6 oz)

Camera Parts

12:1 Variable Speed (1.2-22 sec.) zoom

lens (48x digital zoom)

F =6.0 to 72.0 mm; F1.6 to 2.4; Filter

Diameter 58 mm

Focus

Auto/Manual (ring)/Infinity/One push auto

Imaging Device:

Three 1/3-inch type CCDs

Gross 450,000 pixels/effective 400,000

Progressive/Interlace Scan

White Balance:

Auto/One-push/Outdoor (5800 K)/Indoor (3200 K)

Shutter Speed:

1/3, 1/6, 1/12, 1/25, 1/50, 1/60, 1/100,

1/120, 1/150, 1/215

1/300, 1/425, 1/600, 1/1000, 1/1250,

1/1750, 1/2500,

1/3500, 1/6000, 1/10000 second

Exposure:

Auto/Manual

Minimum Illumination:

1 lx with F1.6 at 18 dB gain

Horizontal Resolution:

530 TV lines

Viewfinder:

180,000 dot Black & White LCD

Horizontal Resolution:

500 TV lines

VTR Parts

Audio Signal

Rec: 48 kHz/16-bit, 32 kHz/12-bit

Playback: 48 kHz/16-bit, 32 kHz/12-bit,

32 kHz/16-bit, 44.1 kHz/16-bit

Built-in Speaker:

Dynamic Speaker, ¢20 mm

LCD:

Hybrid, 2.5-inch type, 211,200 dots

(960 x 220)

Tape Speed:

Approx. 28.2 mm/s (DVCAM mode)

Approx. 18.8 mm/s (DV SP mode)

Maximum Recording Time:

40 minutes (DVCAM mode)

60 minutes (DV SP mode, with

PDVM-40ME)

Video Signal:

CCIR Standard, PAL colour system

Connectors

Video IN/OUT

RCA pin: (1)

Luminance signal: 1 Vp-p, 75 Ω , unbalanced, sync negative

Audio IN/OUT

RCA pin: (2), 327 mV

Output impedance with less than 2.2 k Ω

Input impedance with more than 47 k Ω

S-Video IN/OUT

Mini-DIN 4 pin :(1)

Luminance signal: 1 Vp-p, 75 Ω ,

unbalanced

Chrominance signal: 0.3 Vp-p

Audio IN

XLR 3-pin female: (2). -60 dBu, 3 k Ω ,

+4 dBu, 10 k Ω (0 dBu = 0.775 V rms)

Digital input/output

i.LINK (DV): 4-pin (1)

Others

LANC: Stereo mini jack (2.5 mm): (1)

Headphone: Stereo mini jack (3.5 mm): (1)

External DC IN: (1) 8.4 V for AC-L15 AC

adaptor

DSR-2000AP DVCAM Editing Recorder

Features

•Playback capability of all DV (25 Mb/s) recorded tapes including DV tapes recorded in SP/LP mode and DVCPRO without any mechanical adaptor (SDTI(QSDI) and i.LINK(DV) do not support DVCPRO playback) ·Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette • Preread editing capability(*1) to perform A/B roll editing(2) with two VTRs, audio mix/swap and voice over with no delay between video and audio . Audio cross-fade function • Four-channel audio editing capability • Excellent jog audio quality •VTR-to-VTR editing without external controllers •Wide range of digital slow speed from -1 to +1 times normal speed •DMC (Dynamic Motion Control) •High-speed picture search over a range of 60 times normal speed, in both forward and reverse · Versatile digital interfaces: SDI, SDTI (QSDI), i.LINK (DV)(option), SDTI-CP (MPEG Out)(option) and AES/EBU digital audio •Extensive analogue interfaces: composite, component, S-Video and XLR audio •RS-422A remote control interface •Frame accurate editing capability •ClipLink operation •Full tape dubbing with ClipLink Log Data via SDTI (QSDI) and RS-422A interfaces •16:9 aspect ID signal recording •Process control for highly stable video signals •TC and VITC •Channel condition monitoring function •Built-in signal generator Closed caption function



Supplied Accessories

Operating Instructions (1) AC Power cord (1)

Optional Accessories

DSBK-2020 HD Up-conversion Board RMM-131 Rack Mount Kit RCC-G Cables 9-pin/9-pin Cable CCF-L Cables DV Cables (6-pin to 6-pin) CCFD-L Cables DV Cables (6-pin to 4-pin) PDV-N Digital Videocassette Tapes (Non IC type) PDV-MEM Digital Videocassette Tapes (Master Tape) PDV-ME Digital Videocassette Tapes PDV-LV Uideo Head Cleaning Cassette Tapes (for DVCAM)





DVCAM Specifications

General

Power requirements:

AC 100 to 240 V, 50/60 Hz

Power consumption:

110 W

Operating temperature:

5 °C to 40 °C (41 °F to 104 °F)

Storage temperature:

-20 °C to 60 °C (-4 °F to 140 °F)

Operating humidity:

Less than 80%

Storage humidity:

Less than 90%

Mass

18 kg (39 lb 10 oz)

Dimensions:

427 (W) x 175 (H) x 496.5 (D) mm (16 7/8 × 7 × 19 5/8 inches)

Tape speed:

28.221 mm/s

Recording/Playback time

Standard size: 184 min. with

PDV-184ME/184N/184MEM

Mini size: 40 min with

PDVM-40ME/40N/40MEM

Fast forward/Rewind time:

Standard size: Less than 3 min. with

PDV-184ME/184N/184MEM Mini size: Less than 1 min. with

PDVM-40ME/40N/40MEM

Search speed

Shuttle mode: Still to ±60 times normal

speed in forward and reverse

Digital slow mode: ±1 times normal speed

in forward and reverse

Video Performance

Band width (via analogue component I/O):

Luminance: 25 Hz to 5.5 MHz +1.0/-2.0 dB 5.75 MHz +0/-3.0 dB (Typical

measurement)

Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB

S/N ratio (via analogue component I/O):

More than 55 dB

K-factor (K2T, KPB):

Less than 2.0%

Y/C delay:

Less than 30 ns

Audio Performance

Frequency response:

2CH mode (48 kHz/16-bit): 20 Hz to 20

kHz +0.5/-1.0 dB

4CH mode (32 kHz/12-bit): 20 Hz to 14.5

kHz +0.5/-1.0 dB

Dynamic range:

More than 90 dB

Distortion (THD + N):

Less than 0.05%

Input Signals

Video (Analogue)

REF. Video: BNC (2), loop-through

connection

Composite, 1.0 Vp-p, 75 Ω , sync

Video: BNC (2), loop-through connection

Composite, 1.0 Vp-p, 75 Ω , sync negative

Component: BNC (3)

Y:1.0 Vp-p, 75 Ω , sync negative

R-Y:0.7 Vp-p, 75 Ω (100%)

B-Y:0.7 Vp-p, 75 Ω (100%)

S-Video; DIN 4-pin (1)

Y:1.0 Vp-p, 75 Ω , sync negative

C:0.3 Vp-p, 75 Ω (at burst level)

Video (Digital)

SDI: BNC (2), active-through connection Conforms to Serial Digital Interface

(270 Mb/s), ITU-R BT.656

SDTI (QSDI): BNC (1)

Conforms to SDTI (270 Mb/s), SMPTE

305M/322M

i.LINK (DV): 6-pin (1) *using optional

DSBK-190 i.LINK/DV Input/Output Board

IFFF1394 Audio (Analogue)

Audio: XLR 3-pin, female (4)

-6/0/+4 dBu, 600 Ω on/off/-60 dBu, high impedance

Audio (Digital)

AES/EBU: BNC (2), 75 Ω, unbalanced

Time Code:

BNC (1), 0.5 Vp-p to 18 Vp-p, 3 kΩ,

unbalanced

Output Signals

Video (Analogue)

REF. Vide: BNC (1), 0.3 Vp-p, 75 Ω, sync

Video 1/2/3(SUPER): BNC (3)

Composite, 1.0 Vp-p, 75 Ω , sync

negative

Component: BNC (3)

Y:1.0 Vp-p, 75 Ω , sync negative

R-Y:0.7 Vp-p, 75 Ω (100%)

B-Y:0.7 Vp-p, 75 Ω (100%)

S-Video: DIN 4-pin (1)

Y:1.0 Vp-p, 75 Ω , sync negative

C:0.3 Vp-p, 75 Ω (at burst level)

Video (Digital)

SDI: BNC (3)

Conforms to Serial Digital Interface (270

Mb/s), ITU-R BT.656

SDTI (QSDI): BNC (1)

Conforms to SDTI (270 Mb/s), SMPTE

305M/322M

i.LINK (DV): 6-pin (1) *using optional

DSBK-190 i.LINK/DV Input/Output Board IEEE1394

Audio (Analogue)

Audio: XLR 3-pin, male (4)

+4/0/-6 dBu (selectable by menu)

Monitor: RCA (1)

-11 dBu, 47 kΩ, unbalanced (-18 dBFS)

Headphone: JM-60 headphone jack (1)

-∞ to -13 dBu, 8 Ω, unbalanced (-18

dBFS) Audio (Digital)

AES/EBU: BNC (2), 75 Ω, unbalanced

Time Code

BNC: (1), 2.2 Vp-p, 75 Ω , unbalanced

Remote

RS-422A: D-sub 9-pin, female (2)

Video Control: D-sub 15-pin, male (1) Control Panel: D-sub 15-pin, female (1)

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DSR-1800AP DVCAM Editing Recorder

Features

•Superb picture quality of the DVCAM format •Playback capability of DV (25 Mb/s) recorded tapes including DV tapes recorded in SP mode and DVCPRO tapes without a mechanical adaptor(SDTI (QSDI) and i.LINK (DV) interfaces do not support DVCPRO playback.) •Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette Preread playback capability to perform audio mix/swap and over dubbing without any delay between video and audio signals •Four-channel audio editing capability ·Audio cross-fade function •Excellent jog audio capability •DMC (Dynamic Motion Control) •Digital slow speed from -0.5 to +0.5 times normal speed •High-speed picture search over a range of 60 times normal speed, in both forward and reverse • Versatile digital interfaces (The optional boards are required): SDI, SDTI(QSDI), i.LINK (DV) and AES/EBU digital audio. •Extensive analogue interfaces: composite, component, S-Video and XLR audio •RS-422A remote control interface •Frame accurate editing capability •ClipLink operation •Full tape dubbing with ClipLink Log Data •16:9 aspect ID signal recording • Video process control of analogue and digital outputs •TC and VITC •Channel condition monitoring function •Built-in signal generator •Flexible input selection between video and audio* •Universal powering system (AC 100 V to 240 V) •Three-size cassette compartment to ensure compatibility with DV(25Mb/s) recorded tapes of all size and types •Closed caption function



Supplied Accessories

AC Power cord (1)
Operating instructions (1)

Optional Accessories

DSBK-1801 SDI, AES/EBU Input/Output Board DSBK-1820 HD Up-conversion Board RMM-131 Rack Mount Kit RCC-G Cables 9-pin/9-pin Cable CCF-L Cables DV Cables (6-pin to 6-pin) CCFD-L Cables DV Cables (6-pin to 4-pin) PDV-CL Video Head Cleaning Cassette Tapes (for DVCAM) PDV-MEM Digital Videocassette Tapes (Master Tape) PDV-N Digital Videocassette Tapes (Non IC type) PDV-ME Digital Videocassette Tapes



DVCAM Specifications

General

Power requirements:

AC 100 V to 240 V, 50/60 Hz

Power consumption:

100 W (with all options)

Operating temperature:

5 °C to 40 °C (41 °F to 104 °F)

Storage temperature:

-20 °C to 60 °C (-4 °F to 140 °F)

Operating humidity:

Less than 80%

Storage humidity:

Less than 90%

Weight:

13 kg (28 lb 10 oz)

Dimensions (W x H x D):

427 x 174 x 400 mm (16 7/8 x 6 7/8 x

15 3/4 inches)

Tape speed:

28.221 mm/s

Recording/Playback time

Standard size: 184 min. with

PDV-184ME/184N/184MEM

Mini size: 40 min. with

PDVM-40ME/40N/40MEM

Fast forward/Rewind time

Standard size: Less than 3 min. with

PDV-184ME/184N/184MEM Mini size: Less than 1 min. with

PDVM-40ME/40N/40MEM

Search speed

Shuttle mode: Still to ±60 times normal

speed

Digital slow mode: ± 0.5 times normal

speed

Video Performance

Bandwidth (via analogue component I/O) Luminance: 25 Hz to 5.0 MHz ±1.0 dB

Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB

S/N ratio (via analogue component I/O):

More than 55 dB

K-factor (K2T, KPB):

Less than 2%

Y/C delay:

Less than 30 ns

Audio Performance

Frequency response

2CH mode (48 kHz/16-bit): 20 Hz to

20 kHz +0.5/-1.0 dB

4CH mode (32 kHz/12-bit): 20 Hz to

14.5 kHz +0.5/-1.0 dB

Dynamic range:

More than 90 dB

Distortion (THD + N):

Less than 0.05%

Inputs Signals

VIDEO (ANALOGUE)

REF. Video :BNC (2), loop-through

connection

0.3 Vp-p, 75 Ω, sync negative

Composite Video: BNC (2), loop-through

connection

1.0 Vp-p, 75 Ω , sync negative

Component :BNC (3)

Y: 1.0 Vp-p, 75 Ω , sync negative

R-Y: 0.7 Vp-p, 75 Ω (100%)

B-Y: 0.7 Vp-p, 75 Ω (100%)

S-Video: DIN 4-pin (1)

Y: 1.0 Vp-p, 75 Ω , sync negative

C: 0.3 Vp-p, 75 Ω (at burst level)

VIDEO (DIGITAL)

SDI: BNC (2), active-through connection

*using optional DSBK-1801

Conforms to Serial Digital Interface

(270 Mb/s), ITU-R BT.656

SDTI (QSDI): BNC (1) *using optional

DSBK-1802

Conforms to SDTI (270 Mb/s), SMPTE

305M/322M

i.LINK (DV): 6-pin (1) *using optional

DSBK-1803

IEEE 1394

AUDIO (ANALOGUE)

Audio: XLR 3-pin, female (4)

-6/-3/0/+4 dBu (selectable by menu)

-60 dBu (high impedance)/600 Ω

OFF/ON

AUDIO (DIGITAL)

AES/EBU :BNC (2) *using optional

DSBK-1801

75 Ω , unbalanced

TIME CODE

BNC (1): 0.5 Vp-p to 18 Vp-p, 3 k Ω

unbalanced

Output Signals

VIDEO (ANALOGUE)

REF. Video: BNC (1)

0.3 Vp-p, 75 Ω, sync negative

Video 1/2(SUPER): BNC (2)

Composite, 1.0 Vp-p, 75 Ω, sync

negative

Component :BNC (3)

Y: 1.0 Vp-p, 75 Ω , sync negative

R-Y: 0.7 Vp-p, 75 Ω (100%)

B-Y: 0.7 Vp-p, 75 Ω (100%)

S-Video: DIN 4-pin (1)

Y: 1.0 Vp-p, 75 Ω , sync negative

C: 0.3 Vp-p, 75 Ω (at burst level)

VIDEO (DIGITAL)

SDI: BNC (2) *using optional DSBK-1801 Conforms to Serial Digital Interface

(270 Mb/s), ITU-R BT.656

SDTI (QSDI) :BNC (1) *using optional

DSBK-1802

Conforms to SDTI (270 Mb/s), SMPTE

305M/322M i.LINK (DV): 6-pin (1) *using optional

DSBK-1803

IEEE 1394

AUDIO (ANALOGUE)

Audio: XLR 3-pin,male (4)

-6/-3/0/+4 dBu (selectable by menu)

Monitor: RCA (1)

-9 dBu, 47 kΩ, unbalanced (-18 dBFS)

Headphone: JM-60 headphone jack (1)

-∞ to -11 dBu, 8 Ω, unbalanced (-18 dBFS)

AUDIO (DIGITAL)

AES/EBU: BNC (2) *using optional

DSBK-1801

75 Ω , unbalanced

TIME CODE

BNC(1), 2.2 Vp-p, 75 Ω, unbalanced

PEMOTE

RS-422A: D-sub 9-pin, female (1)

Video Control: D-sub 15-pin, male (1)

CONTROL S (SIRCS): Stereo mini jack (1)

DSR-1600AP DVCAM Editing Player

Features

•Superb picture quality of the DVCAM format •Playback capability of DV (25 Mb/s) recorded tapes including DV tapes recorded in SP mode and DVCPRO tapes without a mechanical adaptor (SDTI (QSDI) and i.LINK (DV) interfaces do not support DVCPRO playback) •Excellent jog audio capability •DMC (Dynamic Motion Control) •Wide range of digital slow speed from -0.5 to +0.5 times normal speed •High-speed picture search over a range of 60 times normal speed, in both forward and reverse · Versatile digital interfaces (The optional boards are required): SDI, SDTI(QSDI), i.LINK(DV) and AES/EBU digital audio •Extensive analogue interfaces: composite, component, S-Video and XLR audio •RS-422A remote control interface •Frame accurate editing capability •ClipLink operation •Video process control for greater control of both analogue and digital outputs •TC and VITC •Channel condition monitoring function •Universal powering system (AC 100 V to 240 V) •Three-size cassette compartment to ensure compatibility with DV(25Mb/s) recorded tapes of all size and types •Closed caption function •Jog dial on front panel



AC power cord (1)
Operating instructions (1)

Optional Accessories

DSBK-1820 HD Up-conversion Board
DSBK-1601 SDI, AES/EBU Output Board
RMM-131 Rack Mount Kit
RCC-G Cables 9-pin/9-pin Cable
CCF-L Cables DV Cables (6-pin to 6-pin)
CCFD-L Cables DV Cables (6-pin to 4-pin)
PDV-N Digital Videocassette Tapes (Non IC
type)
PDV-MEM Digital Videocassette Tapes
(Master Tape)
PDV-ME Digital Videocassette Tapes
PDV-CL Video Head Cleaning Cassette Tapes
(for DVCAM)



DVCAM

Specifications General

Power requirements:

AC 100 V to 240 V, 50/60 Hz

Power consumption:

70 W (with all options)

Operating temperature:

5 °C to 40 °C (41 °F to 104 °F)

Storage temperature:

-20 °C to 60 °C (-4 °F to 140 °F)

Operating humidity:

Less than 80%

Storage humidity:

Less than 90%

Weight:

13 kg (28 lb 10 oz)

Dimensions (W x H x D):

427 x 174 x 400 mm (16 7/8 x 6 7/8 x 15 3/4

inches)

Tape speed:

28.221 mm/s

Recording/Playback time

Standard size: 184 min. with

PDV-184ME/184N/184MEM

Mini size: 40 min with

PDVM-40ME/40N/40MEM

Fast forward/Rewind time

Standard size: Less than 3 min. with

PDV-184ME/184N/184MEM

Mini size: Less than 1 min. with PDVM-40ME/40N/40MEM

Search speed

Shuttle mode: Still to ±60 times normal

speed

Digital slow mode: ±0.5 times normal

speed

Video Performance

Bandwidth (via analogue component I/O)

Luminance: 25 Hz to 5.0 MHz ±1.0 dB

Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB

S/N ratio (via analogue component I/O):

More than 55 dB

K-factor (K2T, KPB):

Less than 2%

Y/C delay:

Less than 30 ns

Audio Performance

Frequency response

2CH mode (48 kHz/16-bit): 20 Hz to

20 kHz +0.5/-1.0 dB

4CH mode (32 kHz/12-bit): 20 Hz to

14.5 kHz +0.5/-1.0 dB

Dynamic range:

More than 90 dB

Distortion (THD + N):

Less than 0.05%

Inputs Signals

VIDEO (ANALOGUE)

REF. Video: BNC (2), loop-through

connection

0.3 Vp-p, 75 Ω , sync negative

Output Signals

VIDEO (ANALOGUE)

REF. Video: BNC (1)

0.3 Vp-p, 75 Ω , sync negative

Composite Video 1/2(SUPER): BNC (2)

1.0 Vp-p, 75 Ω, sync negative

Component: BNC (3)

Y: 1.0 Vp-p, 75 Ω , sync negative

R-Y: 0.7 Vp-p, 75 Ω (100%)

B-Y: 0.7 Vp-p, 75 Ω (100%)

S-Video: DIN 4-pin (1)

Y: 1.0 Vp-p, 75 Ω , sync negative

C: 0.3 Vp-p, 75 Ω (at burst level)

VIDEO (DIGITAL)

SDI :BNC(2) *using optional DSBK-1601

Conforms to Serial Digital Interface (270 Mb/s), ITU-R BT.656

SDTI (QSDI): BNC (1) *using optional

DSBK-1602

Conforms to SDTI (270 Mb/s), SMPTE

305M/322M

i.LINK (DV): 6-pin (1) *using optional

DSBK-1803

IFFF 1394

AUDIO (ANALOGUE)

Audio: XLR 3-pin, male (4)

-6/-3/0/+4 dBu (selectable by menu)

Monitor: RCA (1)

-9 dBu, 47 kΩ, unbalanced (-18 dBFS)

Headphone: JM-60 headphone jack (1)

-∞ to -11 dBu, 8 Ω, unbalanced

(-18 dBFS)

AUDIO (DIGITAL)

AES/EBU: BNC(2) *using optional

DSBK-1601

75 Ω , unbalanced

TIME CODE:

BNC (1): 2.2 Vp-p, 75 Ω , unbalanced

REMOTE

RS-422A: D-sub 9-pin, female (1)

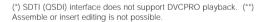
Video Control: D-sub 15-pin, male (1)

CONTROL S (SIRCS): Stereo mini jack (1)

DSR-1500AP DVCAM Editing Recorder

Features

·Compact, half-rack size ·Superb picture quality of the DVCAM format •Playback compatibility with DV (25 Mb/s) family formats including consumer DV (SP mode) and DVCPRO without a mechanical adaptor(*) •DV format recording capability (SP mode, 10-µm track pitch recording) (**) •Long recording time: max. 184 min (DVCAM mode)/276 min (DV SP mode) with a standard-size cassette, and max. 40 min (DVCAM mode)/60 min (DV SP mode) with a mini cassette · Versatile digital interfaces: equipped with i.LINK (DV), and optional SDI, SDTI (QSDI) and AES/EBU interfaces •Extensive range of analogue interfaces: composite, component, S-video and two channels of XLR audio • Variable speed playback within the range of -0.5 to +0.5 times normal play speed •High-speed colour picture search: 60 times normal play speed in both forward and reverse •Menu keys on front panel for frame by frame picture search •RS-422A remote control interface •Excellent jog audio quality •ClipLink operation •Full tape dubbing including ClipLink Log Data using SDTI (QSDI) and RS-422A interfaces •16:9 aspect ID signal recording •Video process control for both analogue and digital outputs •TC and VITC •Built-in signal generator •Universal powering system: allows the use of AC100 V to 240 V power sources •Three-size cassette compartment to ensure compatibility with DV(25Mb/s) recorded tapes of all size and types •Closed caption function







Supplied Accessories

AC Power cord (1)
Operating instructions (1)

Optional Accessories

DSBK-1501 Digital Input/Output Board
DSBK-1505 Analogue Input Board
DSRM-10 Remote Control Unit
RCC-G Cables 9-pin/9-pin Cable
CCF-L Cables DV Cables (6-pin to 6-pin)
CCFD-L Cables DV Cables (6-pin to 4-pin)
PDV-MEM Digital Videocassette Tapes
(Master Tape)
PDV-N Digital Videocassette Tapes (Non IC
type)
PDV-CL Video Head Cleaning Cassette
Tapes (for DVCAM)
PDV-ME Digital Videocassette Tapes

General

DVCAM Specifications Power requirements: AC 100 V to 240 V, 50/60 Hz Power consumption: 55 W (with all options) Operating temperature: 5 °C to 40 °C (41 °F to 104 °F) Storage temperature: -20 °C to 60 °C (-4 °F to 140 °F) Operating humidity: Less than 80% Storage humidity: Less than 90% Mass 6 kg (13 lb 3 oz) Dimensions (W x H x D): 210 x 130 x 420 mm (8 3/8 x 5 1/8 x 16 5/8 inches) Tape speed: 28.221 mm/s Recording/Playback time DVCAM mode: Standard size: 184 min. with PDV-184ME/184N/184MEM Mini size: 40 min. with PDVM-40ME/40N/40MEM DV (SP) mode: Standard size: 276 min. with PDV-184ME/184N/184MEM Mini size: 60 min. with PDVM-40MF/40N/40MFM Fast forward/Rewind time Standard size: Less than 3 min. with PDV-184ME/184N/184MEM Mini size: Less than 1 min. with PDVM-40ME/40N/40MEM Search speed Shuttle mode: Still to ±60 times normal speed Digital slow mode: ±0.5 times normal speed Video Performance Bandwidth (via analogue component I/O) Luminance: 25 Hz to 5.0 MHz +1.0/-1.5 dB Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB S/N ratio (via analogue component I/O): More than 55 dB K-factor (K2T, KPB): Less than 2% Y/C delay: Less than 30 ns **Audio Performance** Frequency response 2CH mode (48 kHz/16-bit): 20 Hz to 20 kHz 4CH mode (32 kHz/12-bit): 20 Hz to 14.5 kHz +10 dB Dynamic range: More than 87 dB

Distortion (THD + N):

Less than 0.07%

Input Signals

VIDEO (ANALOGUE)

REF. Video: BNC (2), loop-through connection 0.3 Vp-p, 75 Ω sync negative

Composite Video: BNC (2),loop-through

connection(*1) *Using optional DSBK-1504

1.0 Vp-p, 75 Ω, sync negative Component: BNC (3) (*1) *Using optional

DSBK-1504

Y: 1.0 Vp-p, 75 Ω , sync negative R-Y: 0.7 Vp-p, 75 Ω (100%)

B-Y: 0.7 Vp-p, 75 Ω (100%)

S-Video: BNC (2) (*1) *Using optional DSBK-1504

Y: 1.0 Vp-p, 75 Ω , sync negative

C: 0.3 Vp-p, 75 Ω (at burst level)

VIDEO (DIGITAL)

SDI: BNC (1) (*2) *Using optional DSBK-1501

Conforms to Serial Digital Interface

(270 Mb/s), ITU-R BT.656

SDTI (QSDI): BNC (1) (*2) *using optional

DSBK-1501

Conforms to SDTI (270 Mb/s), SMPTE

305M/322M

i.LINK (DV): 6-pin (1)

IFFF 1394-based AUDIO (ANALOGUE)

Audio: XLR 3-pin female (2) *Using optional

DSBK-1504

-6/-3/0/+4 dBu (selectable by menu), high

impedance

AUDIO (DIGITAL)

AES/EBU: BNC (2) *Using optional DSBK-1501

75 Ω , unbalanced

BNC (1), 0.5 Vp-p to 18.0 Vp-p, 3 k Ω

unbalanced

Output Signals

VIDEO (ANALOGUE)

Video 1/2/3(SUPER): BNC (3) (*3)

Composite, 1.0 Vp-p, 75 Ω , sync negative

Component: BNC (3) (*3)

Y: 1.0 Vp-p, 75 Ω , sync negative

R-Y: 0.7 Vp-p, 75 Ω (100%)

B-Y: 0.7 Vp-p, 75 Ω (100%)

S-Video: BNC (2) (*3)

Y: 1.0 Vp-p, 75 Ω , sync negative

C: 0.3 Vp-p, 75 Ω (at burst level)

VIDEO (DIGITAL)

SDI: BNC (2) (*4) *Using optional DSBK-1501

Conforms to Serial Digital Interface

(270 Mb/s), ITU-R BT.656

SDTI (QSDI): BNC (2) (*4) *Using optional

DSBK-1501

Conforms to SDTI (270 Mb/s), SMPTE

305M/322M

i.LINK (DV): 6-pin (1)

IEEE 1394-based

AUDIO (ANALOGUE)

Audio: XLR 3-pin male (2)

-6/-3/0/+4 dBu (selectable by menu) Monitor: RCA (1) (*5)

- ∞ to -9 dBu, 47kΩ, unbalanced

(-18 dBFS)

Headphone: JM-60 headphone jack (1)

- ∞ to -11 dBu, 8Ω, unbalanced (-18 dBFS)

AUDIO (DIGITAL):

BNC (2), AES/EBU, 75 Ω , unbalanced *Using optional DSBK-1501

TIME CODE:

BNC (1), 2.2 Vp-p, 75 Ω , unbalanced

RS-422A: D-sub 9-pin, female (1)

Control-S (SIRCS): Stereo mini jack (1)

(*1): Video, Component and S-Video inputs share the same BNC connectors.(*2): SDI and SDTI (QSDI) inputs share the same BNC connectors. (*3): Video, Component and S-Video outputs share the same BNC connectors. (*4): SDI and SDTI (QSDI) outputs share the same BNC connectors. (*5): The volume of monitor can be controlled by the PHONE LEVEL control knob

DSR-45AP DVCAM Recorder

Features

•Superb picture quality of the DVCAM format •Recording and playback capability of the DV format (SP mode only)(*1) •Long recording time: up to 184 minutes with a standard-size cassette, 40 minutes with a mini-size cassette in DVCAM mode •Full range of analogue Video IN/OUT: component, composite, S-video •Four channel independent Audio In/OUT with XLR connectors for Audio OUT •i.LINK(DV) interface for simultaneous transfer of audio, video, and command signals •RS-422A remote control interface(12) • RS-232C interface for basic control from a PC •LANC and Control S interface •Time code IN/OUT •Time code/User bit preset •Time code IN through DV IN . Duplication function (Including the duplication of cassette memory data) . Compact size (half-rack size width, 2U height) •Low power consumption (22 W during playback) •Built-in 2.5-inch type colour LCD monitor • Tape counter • Wireless remote controller RMT-DS5 supplied

(*1) When recording in DV(SP) format, the transition between cut to cut may not be smooth, In addition, when the recording format is switched between DVCAM and DV, the transition may not be recorded smoothly. (*2) The DSR-45/45P is not equipped with the synchronization capability, therefore, is recommended to be used only as a source feeder in A/B roll editing





Supplied Accessories

Cleaning cassette (1) RMT-DS5 wireless remote controller (1) Size AA (R6) battery for remote controller (2) Operating instructions (1) Interface manual for programmers (RS-232C)

Optional Accessories

DSRM-10 Remote Control Unit

AC power cord (1)

VMC-IL44 cables 4-pin <-> 4-pin i.LINK Cable VMC-IL46 cables 4-pin <-> 6-pin i.LINK Cable

Specifications

General

System PAL

Power requirements:

AC 100 V to 240 V, 50/60 Hz

Power consumption:

22 W

Operating temperature:

5 °C to 40 °C (41 °F to 104 °F)

Storage temperature:

-20 °C to 60 °C (-4 °F to 140 °F)

Mass:

Approx. 4.6 kg (10 lb 2 oz)

Dimensions:

212 (W) × 98 (H) × 392.8 (D) mm (8 3/8 × 3 7/8 × 15 1/2 inches)

Tane speed

DVCAM mode: 28.2 mm/s

DV SP playback mode: 18.8 mm/s

Recording/Playback time in DVCAM mode:

Standard size: 184 min. with PDV-184MF/184N/184MFM

Mini size: 40 min. with PDVM-40ME/40N/40MEM Tape rewind time:

Less than 2 min, with

PDV-184ME/184N/184MEM

Search speed (via DSRM-20 or RMT-DS5): ± x1/10, x1/3, x1, x2, x11, x17 (DVCAM)

± x1/10, x1/3, x1, x2, x11, x24 (DV SP)

Signal Inputs

Video (Analogue)

Ref.Video: BNC (1)

Black burst: 75 Ω , sync negative Composite: BNC (1)(*1)

1.0 Vp-p, 75 Ω, unbalanced, sync negative

S-Video: Mini DIN 4-pin (1)

Y: 1.0 Vp-p, 75 Ω, sync negative

C: 0.3 Vp-p (subcarrier), 75 Ω

Component: BNC (3)

Y: 1.0 Vp-p, 75 Ω, sync negative R-Y/B-Y: 0.7 Vp-p, 75 Ω (with 100%

colour bar)

Audio (Analogue) Audio: Pin jack (4)

-10/-2/+4 dBu (full bits -18 dB)

Signal outputs

Video (Analogue)

Composite: BNC (1)

1.0 Vp-p, 75 Ω , unbalanced, sync negative

S-Video: Mini DIN 4-pin (1)

Y: 1.0 Vp-p, 75 Ω, unbalanced, sync

negative C: 0.3 Vp-p (subcarrier), 75 Ω ,

unbalanced Component: BNC (3)

> Y: 1.0 Vp-p, 75 Ω , sync negative R-Y/B-Y: 0.7 Vp-p (with 100% colour

Monitor: Pin jack (1)

Composite, 1.0 Vp-p, 75 Ω, sync negative

Audio (Analogue)

Audio: XLR 3-pin male (4)

+4 dBu (full bits -20dB)(*2)

Monitor: Pin jack (1)

2 Vrms (maximum)

Digital Input/Output

i.LINK (DV): 4-pin (1), IEEE1394

Others

RS-422A: D-sub 9-pin, female (1)

RS-232C: D-sub 9-pin, male (1)

LANC: Stereo mini-mini jack (1)

Control S (SIRCS) IN: Stereo mini jack (1)

Headphone: Stereo mini jack (1)

(*1) Shared with REF IN (*2) The audio output level of the DSR-45 will be reduced by half when connected to an Unbalanced XLR input device.

DSR-50P DVCAM Portable Recorder

Features

•Superb picture quality of the DVCAM format •Playback and Recording capability of DV recorded tapes (SP mode only) •Long recording time: up to 184 minutes with a standard-size cassette and 40 minutes with a mini-size cassette •Four-channel independent digital audio recording •2.5-inch (200,000 dot) colour LCD monitor •Duplication options (tape copy, tape copy with original time code, or tape copy with cassette memory data) •Compact & lightweight design: 3.9 kg (8 lb 9 oz) without battery and tape •Playback capability of both NTSC and PAL recorded tapes(*) •i.LINK (DV) interface providing a single cable connection to simultaneously transfer audio, video and command signals •26-pin Camera Connector •Analogue Component Output •Timecode IN/OUT





Supplied Accessories

LCD Protection Cover (1) Cleaning Cassette (1)

Optional Accessories

BC-M150 Ni-NH & Li-ion Battery Charger
BC-L70 Li-ion Battery Charger
BP-L60S Rechargeable Lithium-ion Battery Pack
DSRM-10 Remote Control Unit
FS-20 Foot switch
VMC-IL46 cables 4-pin <-> 6-pin i.LINK Cable

VMC-IL46 cables 4-pin <-> 6-pin I.LINK Cable
VMC-IL66 cables 6-pin <-> 6-pin I.LINK Cable
CCF-L Cables DV Cables (6-pin to 6-pin)
CCFD-L Cables DV Cables (6-pin to 4-pin)

Specifications

General

DC input XLR 4-pin (male), +12 V

Power consumption

15 W

Operating temperature

5 to 40 °C (41 to 104 °F)

Storage temperature

-20 to 60 °C (-4 to 140 °F)

Tape speed

Approx. 28.2 mm/sec (DVCAM mode),

Approx. 18.8 mm/sec (DV SP mode)

Recording/Playback time

184 minutes (DVCAM mode), 270 minutes (DV SP mode) with PDV-184ME cassette 40 minutes (DVCAM mode), 60 minutes

(DV SP mode) with PDVM-40ME cassette

Mass

3.9 kg (8 lb 9 oz), excluding battery and tape

Dimensions

247 (W) x 92.5 (H) x 311 (D) mm (9 3/4 x 3 3/4 x 12 1/4 inches), excluding projections 279 (W) x 99 (H) x 315 (D) mm (11 x 4 x 12 1/2 inches), including projections

Video Performance

Rec mode

DVCAM/DV (SP mode only)

PB mode

DVCAM/DV (SP mode only)

Audio Performance

Rec mode

48.0 kHz: 16 bit: 2ch / 32.0 kHz: 12 bit:

4ch / automatic (DV IN)

PB mode

48.0 kHz: 16 bit: 2ch / 32.0 kHz: 12 bit: 4ch /

32.0 kHz: 16 bit: 2ch / 44.1 kHz: 16 bit:

2ch (automatically selected)

Input terminals

Video (Analogue)

Reference: BNC (1), Black Burst 75 $\boldsymbol{\Omega}$,

Sync negative (use Video IN)

Composite Video: BNC (1), 1.0 Vp-p, 75 Ω ,

Sync negative

S-Video: 4-pin mini DIN (1)

Y: 1.0 Vp-p, 75 Ω , Sync negative

C: 0.3 Vp-p (subcarrier burst) 75 Ω

Audio IN (Analogue)

Audio: XLR 3-pin, female (4)

(+4 dBu/-20 dBu/-60 dBu), impedance

more than 3 k Ω

with +48 V phantom power supply (independently switched for each

channel)

Camera IN:

26-pin camera connector (1)

Composite: 1.0 Vp-p, 75 Ω, Sync

negative

Component

Y: 1.0 Vp-p, 75 Ω, Sync negative

B-Y: 0.7 Vp-p, 75 Ω , R-Y: 0.7 Vp-p, 75 Ω

DV.

6-pin (with lock) *shared with DV OUT connector

Timecode:

BNC (1), 0.5 to 18 Vp-p

Output terminals

Video(Analogue)

Video OUT 1 (Monitor): Composite, BNC (1)

1.0 Vp-p, 75 Ω , Sync negative Superimpose On/Off

Video OUT 2: Composite, BNC (1)

1.0 Vp-p, 75 Ω, Sync negative

S-Video, 4-pin mini DIN (1) Y: 1.0 Vp-p, 75 Ω , Sync negative

C: 0.3 Vp-p (subcarrier burst) 75 Ω

Component OUT: BNC (3) Y: 1.0 Vp-p, 75 Ω , Sync negative B-Y/R-Y: 0.7 Vp-p, 75 Ω

Audio (Analogue)

RCA pin: (4), -10 dBu, Standard output level -18 dB from full bit

RCA pin (Monitor): (1)

DV:

6-pin (with lock) *shared with DV IN connector

Timecode:

BNC (1), 2.2 Vp-p, 600 ohms / 1.2 Vp-p, 75 Ω

Remote

Control S: Stereo mini jack (1)

Remote: Stereo mini jack (1) (Edge High / Edge Low / Level High / Level Low)(Tally) Control: Stereo minimini jack (compatible with LANC as a player)

Headphone jack (left side): Stereo standard jack (1)

-19 dBu, with Level Control

Other

Colour LCD monitor: 2.5 inch, 200,000 dots

2.5 INCH, 200,000 dots

DSR-DR1000AP Video Disc Recorder

Features

•Hard disc recorder (160 GB) with 3.5-inch large-capacity hard drive •Up to 12 hours of 25 Mb/s DVCAM/DV video and audio recording •Compact and lightweight (210 x 130 x 422 mm/ 8 3/8 x 5 1/8 x 16 5/8 inches, 7.5 kg/ 16 lb 10 oz) •Simultaneous recording and playback capability • Variable speed playback within a wide range of -2 to +2 times normal speed •Smooth jog sound capability for easy designation of editing points •Clip segment playback for continuous playback of designated video segments ·Continuous loop recording allows recording to continue until stopped by operator •Interval recording to produce recordings over extended periods •Pre-alarm recording automatically triggers recording to start when an external alarm signal is detected •VTR-like control panel with Jog/Shuttle dial •Random access to files •Synchronous playback via RS-422A • Versatile interfaces • i.LINK interface (6-pin) with AV/C and SBP2 protocols ·High-speed file transfer via i.LINK interface using SBP2 protocol •File transfer of DV video and audio using FTP





Supplied Accessories

AC power cord (1) RM-LG2 (remote control unit) (1) Operation manual (1) Warranty card (1)

Optional Accessories

RCC-G Cables 9-pin/9-pin Cable CCF-L Cables DV Cables (6-pin to 6-pin) CCFD-L Cables DV Cables (6-pin to 4-pin)

Specifications

General Power requirements: AC 100 V to 240 V, 50/60 Hz Power consumption: 75 W Operating temperature: 5 °C to 40 °C (41 °F to 104 °F) Storage temperature: -20 °C to 60 °C (-4 °F to 140 °F) Operating humidity: Less than 80% Storage humidity: Less than 90% Mass 7.5 kg (16 lb 10 oz) Dimensions (W x H x D): 210 x 130 x 422 mm (8 3/8 x 5 1/8 x 16 5/8

inches with

inches, without projection)

Video Performance

Bandwidth (via analogue component I/O)

Luminance: 25 Hz to 5.0 MHz +1.0

Chrominance: 25 Hz to 2.0 MHz +1.0/-2.0 dB

S/N ratio (via analogue component I/O):

More than 54 dB

K-factor (K2T, KPB):

Less than 2%

Y/C delay:

Less than 30 ns

Audio Performance Frequency response

±1.0 dB 4CH mode (32 kHz/12-bit): 20 Hz to 14.5 kHz ±1.0 dB Dynamic range: More than 87 dB Distortion (THD + N): Less than 0.07% (48 kHz) Input Signals VIDEO (ANALOGUE) REF. Video: BNC (2) 0.3 Vp-p, 75 Ω sync negative Composite Video: BNC (2), loop-through connection (*1) 1.0 Vp-p, 75 Ω , sync negative Component: BNC (3) (*1) Y: 1.0 Vp-p, 75 Ω, sync negative R-Y, B-Y: 0.7 Vp-p, 75 Ω (100% colour bar) S-Video: BNC (2) (*1) Y: 1.0 Vp-p, 75 Ω, sync negative C: 0.3 Vp-p, 75 Ω (at burst level) VIDEO (DIGITAL) SDI: BNC (1) Conforms to Serial Digital Interface (270 Mb/s), ITU-R BT.656 i.LINK (DV): 6-pin (1) IEEE 1394-based AUDIO (ANALOGUE) Audio: XLR 3-pin female (2) -6/-3/0/+4 dBu (selectable by menu), high impedance AUDIO (DIGITAL) AES/EBU: BNC (2) 75 Ω , unbalanced Time Code

2CH mode (48 kHz/16-bit): 20 Hz to 20 kHz

Output Signals

VIDEO (ANALOGUE) Video 1/2 (SUPER): BNC (2) (*2) Composite, 1.0 Vp-p, 75 Ω , sync negative Component: BNC (3) (*2) Y: 1.0 Vp-p, 75 Ω , sync negative R-Y, B-Y: 0.7 Vp-p, 75 Ω (100% colour bar) S-Video: BNC (2) (*2) Y: 1.0 Vp-p, 75 Ω, sync negative C: 0.3 Vp-p, 75 Ω (at burst level) VIDEO (DIGITAL) SDI: BNC (2) Conforms to Serial Digital Interface (270 Mb/s), ITU-R BT.656 i.LINK (DV): 6-pin (1) IEEE 1394-based AUDIO (ANALOGUE) Audio: XLR 3-pin male (2) -6/-3//0/+4 dBu (selectable by menu) Monitor: RCA (1) -∞ to -9 dBu, 47 kΩ, unbalanced (-18 dBFS), volume center Headphone: JM-60 headphone jack (1) -∞ to -11 dBu, 8 Ω, unbalanced (-18 dBFS) AUDIO (DIGITAL) AES/EBU: BNC (2), 75 Ω, unbalanced TIME CODE: BNC (1), 2.2 Vp-p, 600 Ω , unbalanced REMOTE RS-422A: D-sub 9-pin, female (2) Control: Mini jack (1) Network Ethernet (1): 10Base-T/100Base-TX Ethernet, RJ-45 modular jack

(*1) Composite, Component and S-Video inputs share the same BNC connectors.(*2) Composite, Component and S-Video outputs share the same BNC connectors.

BNC (1), 0.5 Vp-p to 18.0 Vp-p, 3 k Ω

unbalanced

XDCAM

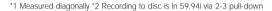
PDW-510								1	60
PDW-510P								1	62
PDW-530								1	64
PDW-530P								1	66
PDW-1500								1	68
PDW-D1 .								1	70
PDW-V1 .								1	71
PDW-R1 .								1	72
CBK-FC01								1	73
CBK-NC01								1	73
CBK-SC01								1	73
CBK-SD01								1	74
PDJ-C1080								1	75
PDJ-A640								1	76
PDJ-CS10								1	77

CDCAM

PDW-510 XDCAM Camcorder (DVCAM Recording)

Features

- •DVCAM recording •Superb picture and sound quality •12-bit A/D conversion •High-performance digital signal processing •2/3-inch type 16:9/4:3 widescreen Power
- HAD EX CCD •Long recording time of 85 min.
- •Shock- and dust-resistant disc drive •2.5-inch⁻¹ type colour LCD screen •Thumbnail Search operation •Scene Selection operation • Proxy AV (low-resolution audio and video) Data recording •Metadata recording including Essence Mark, UMID, Extended UMID •Picture cache recording function (up to ten seconds retroactively)
- Progressive mode; NTSC: 29.97P or optional 23.976P⁻²
- •Slow shutter function •Turbo gain function (max. 48 dB)
- ·Auto Tracing White Balance (ATW) capability
- ·Multi-matrix function ·Interval recording function
- ·Analogue composite output as standard ·SDI output and analogue composite input as option •Four assignable buttons •Slot to accommodate a Sony WRR-855 Series wireless microphone receiver •Optional Ethernet adaptor
- "Memory Stick" stores camera setup parameters
- •Intelligent light system powered from the camcorder's battery •Built-in optical filter wheels •Camera control from RM-B150/B750 •Compact and lightweight (approx. 5.8 kg including VF, BP-IL75 battery, disc and mic) •Low power consumption of 32 W





Supplied Accessories

Operation manual (1) Viewfinder (1) Lens cap (1) Shoulder belt (1) Monaural microphone (1)

Optional Accessories

CBK-FC01 Pull-down (24P shooting) Board CBK-SC01 Analogue Composite Input Board CBK-SD01 SDI Output Board CBK-NC01 Ethernet (100Base-TX) Adaptor

WLL-CA50 Wireless Camera Transmitter (UC) WLL-RX55 Wireless Camera Receiver

RM-B150 Remote Control Unit

RM-B750 Remote Control Unit

BP-GL95 Rechargeable Lithium-ion Battery Pack

BP-L80S Rechargeable Lithium-ion Battery Pack

BC-L70A Ni-MH & Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger BC-L500 Ni-MH & Li-ion Battery

AC-DN2B AC Adaptor

AC-DN10 AC Adaptor/Charger

VCT-14 Tripod Adaptor

BKW-401 Viewfinder Rotation Bracket

PFD23A Disc Professional Disc

Memory Stick IC Memory Media

CCXA Cable Audio Cable

VMC-IL46 cables 4-pin <-> 6-pin i.LINK Cable VMC-IL66 cables 6-pin <-> 6-pin i.LINK Cable

DMX-P01 Portable digital mixer

WRR-855B UHF Synthesised Diversity Tuner

(64U)

WRR-855B UHF Synthesised Diversity Tuner (AU)

WRR-855B UHF Synthesised Diversity Tuner

WRR-855B UHF Synthesised Diversity Tuner (KR)

WRR-855B UHF Synthesised Diversity Tuner (1416U)

WRR-855B UHF Synthesised Diversity Tuner

WRR-855B UHF Synthesised Diversity Tuner (6264U)

WRR-855B UHF Synthesised Diversity Tuner (6668U)

WRR-861B UHF Synthesised Diversity Tuner (U6264)

WRR-861B UHF Synthesised Diversity Tuner

(U6668)WRR-862B UHF Synthesised Dual Diversity

Tuner (1416U)

WRR-862B UHF Synthesised Dual Diversity Tuner (3032U)

WRR-862B UHF Synthesised Dual Diversity Tuner (6264U)

WRR-862B UHF Synthesised Dual Diversity Tuner (6668U)

Specifications	Dynamic range:
General	More than 85 dB
Mass:	Distortion:
Approx. 4.1 kg (9 lb)	Less than 0.08% (at 1 kHz, reference level)
5.8 kg (12 lb 12 oz, with VF, Mic,	Crosstalk:
Disc, BP-GL95 battery)	Less than -70 dB (at 1 kHz, reference level)
Power requirements:	Wow & flutter:
DC 12 V +5.0 V/-1.0 V	Below measurable limit
Power consumption:	Head room:
Approx. 32 W (while recording, with	20 dB (ex-factory setting)
viewfinder, colour LCD off)	Camera section
Operating temperature:	Pickup device:
-5 to 40 °C (+23 °F to +104 °F)	3-chip 2/3-inch type 16:9 widescreen Power HAD EX CCD
Storage temperature:	Total picture elements:
-20 to +60 °C (-4 °F to+140 °F) Humidity:	1038(H) x 1008(V)
10 to 90% (relative humidity)	Effective picture elements:
Continuous operating time:	980 (H) x 494 (V)
Approx. 150 min w/BP-GL95	Optical system:
Approx. 130 min w/BP-L80S	F1.4 prism
Recording format	Built-in optical filters:
Video:	1:3200K, 2:5600K+1/8ND, 3:5600K, 4:
DVCAM (25 Mb/s)	5600K+1/64ND
Proxy Video:	Shutter speed:
MPEG-4	1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000
Audio:	(s)
4 ch/16 bits/48 kHz	Slow shutter:
Proxy Audio:	1/2 to 1/30 (s) (1 to 8 and 16 frame
A-law (4ch, 8 bits, 8 kHz)	accumulation)
Recording/playback time	Lens mount:
85 min.	2/3" 48 bayonet mount
Signal inputs	Sensitivity (2000 lx, 89.9% reflectance):
Genlock video:	F11 (typical)
BNC x1, 1.0 Vp-p, 75 Ω	Minimum illumination:
Time code input:	Approx. 0.13 lx (F1.4 lens, +48 dB turbo
BNC x1, 0.5 to 18 Vp-p, 10 kΩ	gain, shutter off) Gain selection:
Audio input: XLR-3-31 x2, line / mic / mic+48V /	-3 dB, -0 dB, 3 dB, 6 dB, 9 dB, 12 dB,
AES/EBU selectable	18 dB, 24 dB, 30 dB, 36 dB, 42 dB, 48 dB
Mic input:	Smear level:
XLR-3-31 x1	-140 dB (typical)
Signal outputs	S/N ratio:
Video output:	65 dB (typical)
BNC x1, 1.0 Vp-p, 75 Ω	Vertical resolution
Video test output:	400 TV Lines/450 TV Lines(EVS)
BNC x1, 1.0 Vp-p, 75 Ω	Registration:
Time code output:	0.05% (all zones, w/o lens)
BNC x1, 1.0 Vp-p, 75 Ω	Geometric distortion:
Earphone:	Below measurable level (w/o lens)
Mini-jack x2 (front: monaural, rear:	Modulation depth at 5 MHz:
stereo/monaural)	70% (16:9, typical)/55% (4:3, typical)
Audio output (CH-1/CH-2):	Viewfinder
XLR 5-pin male (stereo)	CRT:
Other inputs/outputs	2.0-inch type monochrome
Lens:	Controls:
12-pin	BRIGHT, CONTRAST, PEAKING controls, TALLY, ZEBRA, DISPLAY switches
Remote:	Horizontal resolution:
8-pin Light:	450 TV lines (16:9)
2-pin, DC 12 V, max. 50 W	Microphone:
DC input:	Ultra-directional (detachable)
XLR 4-pin (for the optional)	Built-in LCD monitor
DC output:	LCD:
4-pin (for wireless microphone receiver), DC	2.5-inch type colour LCD monitor
12 V (MAX 0.2A)	"Eco Info"
Camcorder adapter:	Halogenated flame retardants are not used
40-pin	in printed wiring boards.
i.LINK:	
IEEE1394, DV IN/OUT or file access mode,	
6-pin x1	

Audio performance Frequency response:

20 Hz to 20 kHz, +0.5 dB/-1.0 dB

PDW-510P XDCAM Camcorder (DVCAM Recording)

Features

•DVCAM recording •Superb picture and sound quality •12-bit A/D conversion •High-performance digital signal processing •2/3-inch type 16:9/4:3 widescreen Power HAD EX CCD •Long recording time of 85 min. •Shockand dust-resistant disc drive •2.5-inch(1) type colour LCD screen •Thumbnail Search operation •Scene Selection operation •Proxy AV (low-resolution audio and video) Data recording •Metadata recording including Essence Mark, UMID, Extended UMID •Picture cache recording function (up to ten seconds retroactively) • Progressive mode: 25P •Slow shutter function •Turbo gain function (max. 48 dB) • Auto Tracing White Balance (ATW) capability •Multi-matrix function •Interval recording function •Analogue composite output as standard •SDI output and analogue composite input as option •Four assignable buttons •Slot to accommodate a Sony WRR-855 Series wireless microphone receiver •Optional Ethernet adaptor • "Memory Stick" stores camera setup parameters •Intelligent light system powered from the camcorder's battery •Built-in optical filter wheels •Camera control from RM-B150/B750 •Compact and lightweight (approx. 5.8 kg including VF, battery, disc and mic) Low power consumption of 32 W



(*1) Measured diagonally

(*2) Recording to disc is in 59.94i via 2-3 pull-down

Supplied Accessories

Operation manual (1) Viewfinder (1) Lens cap (1) Shoulder belt (1) Monaural microphone (1)

AC-DN2B AC Adaptor AC-DN10 AC Adaptor/Charger BKW-401 Viewfinder Rotation Bracket

VCT-14 Tripod Adaptor

Optional Accessories CBK-SC01 Analogue Composite Input Board CBK-SD01 SDI Output Board CBK-NC01 Ethernet (100Base-TX) Adaptor WLL-CA50 Wireless Camera Transmitter (CFR) WLL-RX55 Wireless Camera Receiver RM-B150 Remote Control Unit RM-B750 Remote Control Unit BP-GL95 Rechargeable Lithium-ion Battery BP-L80S Rechargeable Lithium-ion Battery BC-L70A Ni-MH & Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger BC-L500 Ni-MH & Li-ion Battery

PFD23A Disc Professional Disc Memory Stick IC Memory Media CCXA Cable Audio Cable VMC-IL46 cables 4-pin <-> 6-pin i.LINK Cable VMC-IL66 cables 6-pin <-> 6-pin i.LINK Cable DMX-P01 Portable digital mixer

WRR-855B UHF Synthesised Diversity Tuner (AU)

WRR-855B UHF Synthesised Diversity Tuner (21CF7)

WRR-855B UHF Synthesised Diversity Tuner (33CE7)

WRR-855B UHF Synthesised Diversity Tuner (62CE7)

WRR-855B UHF Synthesised Diversity Tuner (67CF7)

WRR-862B UHF Synthesised Dual Diversity Tuner (21CE7)

WRR-862B UHF Synthesised Dual Diversity Tuner (33CF7)

WRR-862B UHF Synthesised Dual Diversity

Tuner (62CE7)

WRR-862B UHF Synthesised Dual Diversity Tuner (67CE7)

PDW-RMT500 Camera Control Software

XDCAM Specifications General Mass Approx. 4.1 kg (9 lb) 5.8 kg (12 lb 12 oz, with VF, Mic, Disc, BP-GL95 battery) Power requirements: DC 12 V +5.0 V/-1.0 V Power consumption: Approx. 32 W (while recording, with viewfinder, colour LCD off) Operating temperature: -5 to 40 °C (+23 °F to +104 °F) Storage temperature: -20 to +60 °C (-4 °F to+140 °F) Humidity: 10 to 90% (relative humidity) Continuous operating time: Approx. 150 min w/BP-GL95 Approx. 130 min w/BP-L80S Recording format Video: DVCAM (25 Mb/s) Proxy Video: MPEG-4 Audio: 4 ch/16 bits/48 kHz Proxy Audio: A-law (4ch, 8 bits, 8 kHz) Recording/playback time 85 min. Signal inputs Genlock video: BNC x1, 1.0 Vp-p, 75 Ω Time code input: BNC x1, 0.5 to 18 Vp-p, 10 k Ω Audio input: XLR-3-31 x2, line / mic / mic+48V / AES/EBU selectable Mic input: XLR-3-31 x1 Signal outputs Video output: BNC x1, 1.0 Vp-p, 75 Ω Video test output: BNC x1, 1.0 Vp-p, 75 Ω Time code output: BNC x1, 1.0 Vp-p, 75 Ω Earphone: Mini-jack x2 (front: monaural, rear: stereo/monaural) Audio output (CH-1/CH-2): XLR 5-pin male (stereo) Other inputs/outputs Lens: 12-pin Remote: 8-pin Liaht: 2-pin, DC 12 V, max. 50 W DC input:

XLR 4-pin DC output:

4-pin (for wireless microphone receiver), DC

12 V (MAX 0.2A) Camcorder adapter:

40-pin i I INK

IEEE1394, DV IN/OUT or file access mode,

6-pin x1

Audio performance Frequency response:

20 Hz to 20 kHz, +0.5 dB/-1.0 dB

Dynamic range: More than 85 dB

Distortion:

Less than 0.08% (at 1 kHz, reference level)

Crosstalk:

Less than -70 dB (at 1 kHz, reference level)

Wow & flutter:

Below measurable limit

Head room:

20 dB (ex-factory setting)

Camera section

Pickup device:

3-chip 2/3-inch type 16:9 widescreen Power

HAD EX CCD

Total picture elements:

1038(H) x 1188(V)

Effective picture elements:

980(H) x 582(V)

Optical system:

F1.4 prism

Built-in optical filters: 1:3200K, 2:5600K+1/8ND, 3:5600K, 4:

5600K+1/64ND

Shutter speed:

1/60, 1/125, 1/250, 1/500, 1/1000,

1/2000 (s)

Slow shutter:

1/2 to 1/25 (s) (1 to 8 and 16 frame

accumulation)

Lens mount:

2/3" 48 bayonet mount

Sensitivity (2000 lx, 89.9% reflectance):

F11 (typical)

Minimum illumination:

Approx. 0.13 lx (F1.4 lens, +48 dB turbo

gain, shutter off)

Gain selection:

-3 dB, -0 dB, 3 dB, 6 dB, 9 dB, 12 dB,

18 dB, 24 dB, 30 dB, 36 dB, 42 dB, 48 dB

Smear level:

-140 dB (typical)

S/N ratio:

63 dB (typical)

Vertical resolution

480 TV Lines/530 TV Lines(EVS)

Registration:

0.05% (all zones, w/o lens)

Geometric distortion:

Below measurable level (w/o lens)

Modulation depth at 5 MHz:

70% (16:9, typical)/55% (4:3, typical)

Viewfinder

CRT:

2.0-inch type monochrome

Controls:

BRIGHT, CONTRAST, PEAKING controls,

TALLY, ZEBRA, DISPLAY switches

Horizontal resolution:

450 TV lines (16:9)

Microphone:

Ultra-directional (detachable)

Built-in LCD monitor

2.5-inch type colour LCD monitor

"Eco Info"

Halogenated flame retardants are not used

in printed wiring boards.

PDW-530 XDCAM Camcorder (MPEG IMX/DVCAM Recording)

Features

•MPEG IMX (50/40/30 Mb/s) and DVCAM switchable recording •Superb picture and sound quality •12-bit A/D conversion •High-performance digital signal processing •2/3-inch type 16:9/4:3 widescreen Power HAD EX CCD ·Long recording time; MPEG IMX at 30 Mb/s: 68 min., 40 Mb/s: 55 min., 50 Mb/s: 45 min., DVCAM: 85 min. •Shock- and dust-resistant disc drive •2.5-inch(*1) type colour LCD screen •Thumbnail Search operation •Scene Selection operation • Proxy AV (low-resolution audio and video) Data recording •Metadata recording including essence mark, UMID, Extended UMID •Picture cache recording function (up to ten seconds retroactively) • Progressive mode; NTSC: 29.97P or optional 23.976P(*2)

- •Slow shutter function •Turbo gain function (max. 48 dB) Auto Tracing White Balance (ATW) capability
- •Multi-matrix function •Interval recording function
- ·Analogue composite output as standard ·SDI output and analogue composite input as option •Four assignable buttons •Slot to accommodate a Sony WRR-855 Series wireless microphone receiver •Optional Ethernet adaptor
- "Memory Stick" stores camera setup parameters
- •Intelligent light system powered from the camcorder's battery • Dual optical filter wheels for ND and CC •i.LINK (DV stream) output from MPEG IMX playback •Camera control from RM-B150/B750 •Compact and lightweight (approx. 5.8 kg including VF, BP-IL75 battery, disc and mic) •Low power consumption of 32 W

(*1) Measured diagonally (*2) Recording to disc is in 59.94i via 2-3 pull-down



Supplied Accessories

Operation manual (1) Viewfinder (1) Lens cap (1) Shoulder belt (1) Monaural microphone (1)

Optional Accessories

CBK-SC01 Analogue Composite Input Board CBK-SD01 SDI Output Board CBK-NC01 Ethernet (100Base-TX) Adaptor WLL-RX55 Wireless Camera Receiver WLL-CA50 Wireless Camera Transmitter (UC) RM-B150 Remote Control Unit RM-B750 Remote Control Unit BP-GL95 Rechargeable Lithium-ion Battery

CBK-FC01 Pull-down (24P shooting) Board

Pack

BP-L80S Rechargeable Lithium-ion Battery Pack

BC-L70A Ni-MH & Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger BC-L500 Ni-MH & Li-ion Battery AC-DN2B AC Adaptor AC-DN10 AC Adaptor/Charger BVF-VC10W 1.35-inch Type Colour Viewfinder BKW-401 Viewfinder Rotation Bracket

PFD23A Disc Professional Disc Memory Stick IC Memory Media

VCT-14 Tripod Adaptor

VMC-IL46 cables 4-pin <-> 6-pin i.LINK Cable VMC-IL66 cables 6-pin <-> 6-pin i.LINK Cable CCXA Cable Audio Cable

DMX-P01 Portable digital mixer

WRR-855B UHF Synthesised Diversity Tuner (64U) WRR-855B UHF Synthesised Diversity Tuner (AU) WRR-855B UHF Synthesised Diversity Tuner (68U) WRR-855B UHF Synthesised Diversity Tuner (KR) WRR-855B UHF Synthesised Diversity Tuner (1416U)

WRR-855B UHF Synthesised Diversity Tuner (3032U)

WRR-855B UHF Synthesised Diversity Tuner (6264U)

WRR-855B UHF Synthesised Diversity Tuner (6668U)

WRR-861B UHF Synthesised Diversity Tuner

WRR-861B UHF Synthesised Diversity Tuner (U6668)

WRR-862B UHF Synthesised Dual Diversity Tuner

(1416U) WRR-862B UHF Synthesised Dual Diversity Tuner (3032U)

WRR-862B UHF Synthesised Dual Diversity Tuner

WRR-862B UHF Synthesised Dual Diversity Tuner (6668U)

XDCAM

Specifications General

Mass

Approx. 4.1 kg (9 lb)

5.8 kg (12 lb 12 oz, with VF, Mic,

Disc, BP-GL95 battery)

Power requirements:

DC 12 V +5.0 V/-1.0 V

Power consumption:

Approx. 32 W (while recording, with

viewfinder, colour LCD off)

Operating temperature:

-5 to 40 °C (+23 °F to +104 °F)

Storage temperature:

-20 to +60 °C (-4 °F to+140 °F)

Humidity:

10 to 90% (relative humidity)

Continuous operating time:

Approx. 150 min w/BP-GL95

Approx. 130 min w/BP-L80S

Recording format

Video:

MPEG IMX (50/40/30 Mb/s), DVCAM

(25 Mb/s)

Proxy Video:

MPEG-4

Audio

MPEG IMX: 4 ch/16 bits/48 kHz or

4 ch/24 bits/48 kHz

DVCAM: 4 ch/16 bits/48 kHz

Proxy Audio:

A-law (4ch, 8 bits, 8 kHz)

Recording/playback time

MPEG IMX:

50 Mb/s: 45 min., 40 Mb/s: 55 min.,

30 Mb/s: 68 min.

DVCAM:

85 min.

Signal inputs

Genlock video:

BNC x1, 1.0 Vp-p, 75 Ω

Time code input:

BNC x1, 0.5 to 18 Vp-p, 10 k Ω

Audio input:

XLR-3-31 x2, line / mic / mic+48V /

AFS/FBU selectable

Mic input

XLR-3-31 x1

Signal outputs

Video output:

BNC x1, 1.0 Vp-p, 75 Ω

Video test output:

BNC x1, 1.0 Vp-p, 75 Ω

Time code output:

BNC x1, 1.0 Vp-p, 75 Ω

Earphone:

Mini-jack x2 (front: monaural, rear:

stereo/monaural)

Audio output (CH-1/CH-2):

XLR 5-pin male (stereo)

Other inputs/outputs

Lens

12-pin

Remote:

8-pin

Light:

2-pin, DC 12 V, max. 50 W

DC input:

XLR 4-pin (for the optional)

DC output:

4-pin (for wireless microphone receiver), DC

12 V (MAX 0.2A) Camcorder adapter:

40-pin

i.I INK:

IEEE1394, DV IN/OUT or file access mode,

6-pin x1

Audio performance

Frequency response:

20 Hz to 20 kHz, +0.5 dB/-1.0 dB

Dynamic range:

More than 85 dB

Distortion:

Less than 0.08% (at 1 kHz, reference level)

Crosstalk:

Less than -70 dB (at 1 kHz, reference level)

Wow & flutter:

Below measurable limit

Head room:

20 dB (ex-factory setting)

Camera section

Pickup device:

3-chip 2/3-inch type 16:9 widescreen Power

HAD EX CCD

Total picture elements:

1038(H) x 1008(V)

Effective picture elements:

980(H) x 494(V)

Optical system:

F1.4 prism

Built-in optical filters:

1 : Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND

A: CROSS, B: 3200K, C: 4300K, D: 6300K

Shutter speed:

1/100, 1/125, 1/250, 1/500, 1/1000,

1/2000 (s)

Slow shutter:

1/2 to 1/30 (s) (1 to 8 and 16 frame

accumulation)

Lens mount:

2/3" 48 bayonet mount

Sensitivity (2000 lx, 89.9% reflectance):

F11 (typical)

Minimum illumination:

Approx. 0.13 lx (F1.4 lens, +48 dB turbo

gain, shutter off)

Gain selection:

-3 dB, -0 dB, 3 dB, 6 dB, 9 dB, 12 dB, 18 dB, 24 dB, 30 dB, 36 dB, 42 dB, 48 dB

Smear level:

-140 dB (typical)

S/N ratio:

65 dB (typical)

Vertical resolution

400 TV Lines/450 TV Lines(EVS)

Registration:

0.05% (all zones, w/o lens)

Geometric distortion:

Below measurable level (w/o lens)

Modulation depth at 5 MHz:

70% (16:9, typical)/55% (4:3, typical)

Viewfinder

CRT:

2.0-inch type monochrome

Controls:

BRIGHT, CONTRAST, PEAKING controls,

TALLY, ZEBRA, DISPLAY switches

Horizontal resolution:

450 TV lines (16:9) Microphone:

Ultra-directional (detachable)

Built-in LCD monitor LCD

2.5-inch type colour LCD monitor

"Eco Info"

Halogenated flame retardants are not used

in printed wiring boards.

PDW-530P XDCAM Camcorder (MPEG IMX/DVCAM Recording)

Features

•MPEG IMX (50/40/30 Mb/s) and DVCAM switchable recording •Superb picture and sound quality •12-bit A/D conversion •High-performance digital signal processing •2/3-inch type 16:9/4:3 widescreen Power HAD EX CCD ·Long recording time; MPEG IMX at 30 Mb/s: 68 min., 40 Mb/s: 55 min., 50 Mb/s: 45 min., DVCAM: 85 min. •Shock- and dust-resistant disc drive •2.5-inch(*1) type colour LCD screen •Thumbnail Search operation •Scene Selection operation •Proxy AV (low-resolution audio and video) Data recording •Metadata recording including Essence Mark, UMID, Extended UMID •Picture cache recording function (up to ten seconds retroactively) •Progressive mode: 25P •Slow shutter function •Turbo gain function (max. 48 dB) • Auto Tracing White Balance (ATW) capability •Multi-matrix function •Interval recording function •Analogue composite output as standard •SDI output and analogue composite input as option •Four assignable buttons •Slot to accommodate a Sony WRR-855 Series wireless microphone receiver •Optional Ethernet adaptor • "Memory Stick" stores camera setup parameters •Intelligent light system powered from the camcorder's battery • Dual optical filter wheels for ND and CC •i.LINK (DV stream) output from MPEG IMX playback •Camera control from RM-B150/B750 •Compact and lightweight (approx. 5.8 kg including VF, BP-IL75 battery, disc and mic) •Low power consumption of 32 W



(*1) Measured diagonally (*2) Recording to disc is in 59.94i via 2-3 pull-down

Supplied Accessories

Operation manual (1) Viewfinder (1) Lens cap (1) Shoulder belt (1) Monaural microphone (1)

Optional Accessories CBK-SC01 Analogue Composite Input Board CBK-SD01 SDI Output Board CBK-NC01 Ethernet (100Base-TX) Adaptor WLL-CA50 Wireless Camera Transmitter (CER) WLL-RX55 Wireless Camera Receiver RM-B150 Remote Control Unit RM-B750 Remote Control Unit BP-GL95 Rechargeable Lithium-ion Battery BP-L80S Rechargeable Lithium-ion Battery Pack BC-L70A Ni-MH & Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger BC-L500 Ni-MH & Li-ion Battery AC-DN2B AC Adaptor AC-DN10 AC Adaptor/Charger VCT-14 Tripod Adaptor BKW-401 Viewfinder Rotation Bracket PFD23A Disc Professional Disc

Memory Stick IC Memory Media CCXA Cable Audio Cable

DSR-DU1 Video Disc Unit CA-DU1 Camera Adaptor DMX-P01 Portable digital mixer

VMC-IL46 cables 4-pin <-> 6-pin i.LINK Cable VMC-IL66 cables 6-pin <-> 6-pin i.LINK Cable (AU) WRR-855B UHF Synthesised Diversity Tuner (21CE7) WRR-855B UHF Synthesised Diversity Tuner (33CE7) WRR-855B UHF Synthesised Diversity Tuner (62CF7) WRR-855B UHF Synthesised Diversity Tuner (67CE7) WRR-862B UHF Synthesised Dual Diversity Tuner (21CE7) WRR-862B UHF Synthesised Dual Diversity Tuner (33CE7) WRR-862B UHF Synthesised Dual Diversity

WRR-855B UHF Synthesised Diversity Tuner

WRR-862B UHF Synthesised Dual Diversity Tuner (67CF7)

PDW-RMT500 Camera Control Software

Tuner (62CE7)

XDCAM

Specifications General

Mass

Approx. 4.1 kg (9 lb)

5.8 kg (12 lb 12 oz, with VF, Mic,

Disc, BP-GL95 battery)

Power requirements:

DC 12 V +5.0 V/-1.0 V

Power consumption: Approx. 32 W (while recording, with

viewfinder, colour LCD off)

Operating temperature:

-5 to 40 °C (+23 °F to +104 °F)

Storage temperature:

-20 to +60 °C (-4 °F to+140 °F)

Humidity:

10 to 90% (relative humidity)

Continuous operating time:

Approx. 150 min w/BP-GL95 Approx. 130 min w/BP-L80S

Recording format

Video:

MPEG IMX (50/40/30 Mb/s), DVCAM

(25 Mb/s)

Proxy Video:

MPEG-4

Audio

MPEG IMX: 4 ch/16 bits/48 kHz or

4 ch/24 bits/48 kHz

DVCAM: 4 ch/16 bits/48 kHz

Proxy Audio:

A-law (4ch, 8 bits, 8 kHz)

Recording/playback time

MPEG IMX:

50 Mb/s: 45 min., 40 Mb/s: 55 min.,

30 Mb/s: 68 min.

DVCAM:

85 min.

Signal inputs

Genlock video:

BNC x1, 1.0 Vp-p, 75 Ω

Time code input:

BNC x1, 0.5 to 18 Vp-p, 10 k Ω

Audio input:

XLR-3-31 x2, line / mic / mic+48V /

AFS/FBU selectable

Mic input

XLR-3-31 x1

Signal outputs

Video output:

BNC x1, 1.0 Vp-p, 75 Ω

Video test output:

BNC x1, 1.0 Vp-p, 75 Ω

Time code output:

BNC x1, 1.0 Vp-p, 75 Ω

Earphone:

Mini-jack x2 (front: monaural, rear:

stereo/monaural)

Audio output (CH-1/CH-2):

XLR 5-pin male (stereo)

Other inputs/outputs

Lens 12-pin

Remote:

8-pin

Light:

2-pin, DC 12 V, max. 50 W

DC input:

XLR 4-pin

DC output:

4-pin (for wireless microphone receiver), DC

12 V (MAX 0.2A)

Camcorder adapter:

40-pin

i.I INK:

IEEE1394, DV IN/OUT or file access mode,

6-pin x1

Audio performance

Frequency response:

20 Hz to 20 kHz, +0.5 dB/-1.0 dB

Dynamic range:

More than 85 dB

Distortion:

Less than 0.08% (at 1 kHz, reference level)

Crosstalk:

Less than -70 dB (at 1 kHz, reference level)

Wow & flutter:

Below measurable limit

Head room:

20 dB (ex-factory setting)

Camera section

Pickup device:

3-chip 2/3-inch type 16:9 widescreen Power

HAD EX CCD

Total picture elements:

1038(H) x 1188(V)

Effective picture elements:

980(H) x 582(V)

Optical system:

F1.4 prism

Built-in optical filters:

1 : Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND

A: CROSS, B: 3200K, C: 4300K, D: 6300K

Shutter speed:

1/60, 1/125, 1/250, 1/500, 1/1000,

1/2000 (s)

Slow shutter:

1/2 to 1/25 (s) (1 to 8 and 16 frame

accumulation)

Lens mount:

2/3" 48 bayonet mount

Sensitivity (2000 lx, 89.9% reflectance):

F11 (typical)

Minimum illumination:

Approx. 0.13 lx (F1.4 lens, +48 dB turbo

gain, shutter off)

Gain selection:

-3 dB, -0 dB, 3 dB, 6 dB, 9 dB, 12 dB,

18 dB, 24 dB, 30 dB, 36 dB, 42 dB, 48 dB

Smear level:

-140 dB (typical)

S/N ratio:

63 dB (typical)

Vertical resolution

480 TV Lines/530 TV Lines(EVS)

Registration:

0.05% (all zones, w/o lens)

Geometric distortion:

Below measurable level (w/o lens)

Modulation depth at 5 MHz:

70% (16:9, typical)/55% (4:3, typical)

Viewfinder

CRT:

2.0-inch type monochrome

Controls:

BRIGHT, CONTRAST, PEAKING controls,

TALLY, ZEBRA, DISPLAY switches

Horizontal resolution:

450 TV lines (16:9)

Microphone:

in printed wiring boards.

Ultra-directional (detachable) **Built-in LCD monitor**

LCD

2.5-inch type colour LCD monitor "Eco Info"

Halogenated flame retardants are not used

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PDW-1500 XDCAM Compact Deck (Recording and Playback)

Features

•MPEG IMX/DVCAM recording and playback •Two optical heads allows transfer speeds of 2.5x for MPEG IMX (at 50 Mb/s) and 5x for DVCAM streams • Proxy AV (low-resolution audio and video) Data recording •High-speed transfer of Proxy AV Data at 50-times speed · Ability to write EDL data (Clip List) back onto disc •Metadata recording •Long recording/playback time; MPEG IMX at 30 Mb/s: 68 min., 40 Mb/s: 55 min., 50 Mb/s: 45 min., DVCAM: 85 min. •A variety of interfaces including SDI I/O, analogue composite I/O, digital audio I/O, analogue audio I/O, time code I/O, headphone output, audio monitor output, Gigabit Ethernet, i.LINK (DV IN/OUT or file access mode(*1) •Thumbnail Search operation •Scene Selection operation •Search speed (in colour) - JOG: -1 to +2 times normal speed, Shuttle: ±50 times normal speed •Audio clip insertion

•i.LINK (DV stream) output from MPEG IMX playback

(*1) For connection with third party products using this mode, please contact your nearest Sony office.

Supplied Accessories

Operation manual (1)
Quick manual (1)
PDZ-1 proxy browsing software (1)
Proxy viewer

Optional Accessories

PFD23A Disc Professional Disc RCC-G Cables 9-pin/9-pin Cable VMC-IL46 cables 4-pin <-> 6-pin i.LINK Cable VMC-IL66 cables 6-pin <-> 6-pin i.LINK Cable





XDCAM Specifications General Power requirements: AC 100 to 240 V, 50/60 Hz Power consumption: 75 W Operating temperature: +5 to +40°C (+41 to +104°F) Storage temperature: -20 to +60°C (-4 to +140°F) Operating humidity: 10 to 90% (relative humidity) Mass: 7.4 kg (16 lb 5 oz) Dimensions (W x H x D): 210 x 130 x 415 mm (8 3/8 x 5 1/8 x 16 3/8 inches) Recording format Video: MPEG IMX (50/40/30 Mb/s), DVCAM (25 Mb/s) Proxy Video: MPEG-4 Audio: MPEG IMX: 8 ch/16 bit/48 kHz or 4 ch/24 bit/48 kHz DVCAM: 4 ch/16 bit/48 kHz Proxy Audio: A-law (8/4 ch, 8 bit, 8 kHz) Playback format Video: MPEG IMX (50/40/30 Mb/s), DVCAM (25 Mb/s) Proxy Video: MPFG-4 Audio: MPEG IMX: 8 ch/16 bit/48 kHz or 4 ch/24 bit/48 kHz DVCAM: 4 ch/16 bit/48 kHz Proxy Audio A-law (8/4 ch, 8 bit, 8 kHz) Recording/playback time MPEG IMX: 30 Mb/s: 68 min. DVCAM: 85 min Search speed (in colour)

50 Mb/s: 45 min., 40 Mb/s: 55 min.,

Joa mode:

-1 time to 2 times normal playback speed

Shuttle mode:

±50 times normal playback speed

Signal inputs

Analogue reference input:

BNC x2 (including loop through), 1.0 Vp-p,

75 Ω , sync negative

Analogue composite input:

BNC x2 (including loop through), 1.0 Vp-p,

75 Ω , sync negative

SDI input:

BNC x1, SMPTE 259M, (ITU-R BT656-3),

270 Mb/s

Analogue audio input:

XLR x2 (channel selectable), -9 dBu to

28 dBu,10 kΩ, balanced

Digital audio input:

AES/EBU, BNC x2, 4 channels

Time code input:

BNC x1

Signal outputs

Analogue composite video output: BNC x2 (including one character out),

1.0 Vp-p, 75 Ω , sync negative

SDI output

BNC x2 (including one character out), SMPTE 259M (ITU-R BT656-3), 270 Mb/s

Analogue audio output:

XLR x2 (ch. selectable), +4 dBu, 600 Ω load,

low impedance, balanced

Audio monitor output:

RCA x1 (L, R, Mix), -6 dBu, 47 kΩ,

unbalanced

Digital audio output:

BNC x2, 4 channels

Headphone output:

Jack x1, -16 dBu, 8 Ω, unbalanced

Time code output:

BNC x1

Other inputs and outputs

i.I INK:

IEEE 1394, DV IN/OUT or file access mode,

6-pin x 1 Ethernet:

1000Base-T (RJ-45 x1)

RS-422A:

D-sub 9-pin x1 (VTR protocol)

Video performance

Sampling frequency:

Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz

Quantisation:

10 bits/sample

Error correction:

Reed Solomon Code

Analogue composite input to analogue

composite output

30 Hz to 4.5 MHz +0.5/-1.5 dB (NTSC)

25 Hz to 5.5 MHz +0.5/-1.5 dB (PAL)

S/N ratio:

53 dB or more Differential gain:

2% or less

Differential phase:

2°or less

Y/C delay:

20 ns or less

K-factor (2T pulse):

2% or less

Processor adjustment range

Video level:

 $\pm 3 dB$

Chroma

 $\pm 3 dB$

Set up/black level:

±15 IRF/±105 mV

Chroma phase/hue:

±30°

System sync phase:

±15 ms

System SC phase:

±200 ns

Audio performance

Frequency response:

20 Hz to 20 kHz +0.5/-1.0 dB (0 dB at 1 kHz)

Dynamic range:

More than 90 dB

Distortion:

Less than 0.05% (at 1kHz)

Head room:

20 dB (18 dB selectable)

"Eco Info"

Halogenated flame retardants are not used in cabinets and in printed wiring boards

PDW-D1 XDCAM Drive

Features

 Low-cost, lightweight XDCAM drive Interfaces are i.LINK (File Access Mode) and i.LINK AVC DC 12V or AC

Supplied Accessories

Setup software for Windows PC PDZ-1 Software XDCAM Proxy Viewer Manual

Optional Accessories

PFD23A Professional Disc VMC-IL4615/4635 i.LINK Cable (4-pin to 6-pin, 1.5m/3.5m) VMC-IL6615/6635 i.LINK Cable (6-pin to 6-pin, 1.5m/3.5m) BKP-L551 Battery Adaptor BP-GL95 Rechargeable Lithium-ion Battery Pack BP-L80S Rechargeable Lithium-ion Battery Pack

Specifications

Power requirements AC 100 to 240 V, 50/60Hz, DC (with battery) Power consumption 25W Operating temperature 0 to 40 °C Storage temperature -20 to +60 °C Humidity 20 to 90 % (relative humidity) Mass 3.0kg (6lb 9oz) Dimensions (W x H x D) 78 x 182 x 257 mm (3 1/8 x 7 1/4 x 10 1/8 inches) AVC Recording format: Video DVCAM (25Mb/s) Proxy Video MPEG-4 Audio 4ch/16bit/48kHz Proxy Audio

A-law (4ch, 8bit, 8kHz)

File Access Mode Recording format:

Video

MPEG IMX (50/40/30Mb/s), DVCAM (25Mb/s)

Proxy Video

MPEG-4

Audio

MPEG IMX:

8ch/16bit/48kHz or 4ch/24bit/48kHz

DVCAM:4ch/16bit/48kHz

Proxy Audio

A-law(4/8ch, 8bit, 8kHz)



Playback format

Video

MPEG IMX

(50/40/30Mb/s),DVCAM(25Mb/s)

Proxy Video

MPEG-4

Audio

MPEG IMX:

8ch/16bit/48kHz or 4ch/24bit/48kHz

DVCAM:

4ch/16bit/48kHz

Proxy Audio

A-law(4/8ch, 8bit, 8kHz)

Recording/playback time

MPEG IMX:

50Mb/s: 45 min

40Mb/s: 55 min

30Mb/s: 68 min

DVCAM:

85 min

Note: through i.LINK AVC, IMX format is down-converted to DV format.

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PDW-V1 XDCAM Mobile Deck (Playback and File Recording)

Features

Playback of MPEG IMX/DVCAM recordings

 High-resolution AV files (MPEG IMX/DVCAM) and Proxy AV (low-resolution audio and video) files can be recorded via its Ethernet interface or i.LINK (file access mode(*1)) interface(12) • High-speed transfer of proxy AV data at 30-times speed •Long playback time; MPEG IMX at 30 Mb/s: 68 min., 40 Mb/s: 55 min., 50 Mb/s: 45 min., DVCAM: 85 min. •Metadata recording •Ability to write EDL data (Clip List) back onto disc •Compact, lightweight design •Allows transfer speeds of 1.25x for MPEG IMX (at 50 Mb/s) and 2.5x for DVCAM streams (equipped with one optical head) •3.5 inch(*3) type colour LCD screen for monitoring pictures and black-and-white LCD screen for displaying information such as time codes, audio meters and disc capacity •Thumbnail Search operation •Scene Selection operation •Analogue RGB output capability for direct connection to computer displays •AC/batterypowered operation •Built-in audio speaker •Network connectivity (100Base-TX) •Search speed (in colour) -JOG: -1 to 1 times normal speed, Shuttle: ±20 times normal speed •i.LINK (DV stream) output from MPEG IMX playback

(*1) For connection with third party products using this mode, please contact your nearest Sony office. (*2) The PDW-V1 does not support synchronous video/audio input. (*3) Viewable area measured diagonally





Supplied Accessories

Operation manual (1) PDZ-1 proxy browsing software (1) Shoulder belt (1)

Proxy viewer

Optional Accessories

PFD23A Disc Professional Disc BP-GL95 Rechargeable Lithium-ion Battery

BP-L80S Rechargeable Lithium-ion Battery

BC-L70A Ni-MH & Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger BC-L500 Ni-MH & Li-ion Battery

VMC-IL46 cables 4-pin <-> 6-pin i.LINK Cable VMC-IL66 cables 6-pin <-> 6-pin i.LINK Cable

Specifications

General

Power requirements:

AC 100 to 240 V, 50/60 Hz, DC (with battery)

Power consumption:

ower c

Operating temperature:

+0 to +40°C (+32 to +104°F)

Storage temperature:

-20 to +60°C (-4 to +140°F)

Humidity:

10 to 90% (relative humidity)

Storage humidity:

Less than 90%

Mass:

3.5 kg (7.7 lb)

Dimensions (W x H x D):

210 x 90 x 320 mm

(8 3/8 x 3 5/8 x 12 5/8 inches)

Recording format

Proxy Video: MPEG-4

Proxy Audio

A-law (8/4 ch, 8 bit, 8 kHz)

Playback format

Video

MPEG IMX (50/40/30 Mb/s), DVCAM

(25 Mb/s)

Proxy Video:

MPEG-4

Audio:

MPEG IMX: 8 ch/16 bit/48 kHz or

4 ch/24 bit/48 kHz

DVCAM: 4 ch/16 bit/48 kHz

Proxy Audio:

A-law (8/4ch, 8 bit, 8 kHz)

Playback time

MPEG IMX:

50 Mb/s: 45 min., 40 Mb/s: 55 min.,

30 Mb/s: 68 min.

DVCAM:

85 min.

Search speed (in colour)

Jog mode:

±1 times normal playback speed

Shuttle mode:

±20 times normal playback speed

Signal outputs

Analogue composite video:

BNC x1 (character out), 1.0 Vp-p, 75 Ω , sync negative

SDI output:

BNC x1 (character out), SMPTE 259M

(ITU-R BT656-3), 270 Mb/s

Analogue RGB output:

D-sub 15-pin x1

Audio monitor output:

RCA x2 (L/R), -6 dBu, 47 kΩ, unbalanced

Headphone output:

Jack x1, -16 dBu, 8 Ω , unbalanced

Other inputs/outputs

i.LINK:

IEEE 1394, DV IN/OUT or file access mode,

6-pin x 1

Ethernet:

100Base-TX (RJ-45 x1)

Video performance

Sampling frequency:

Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz

Quantisation:

10 bits/sample

Error correction:

Reed Solomon Code

"Eco Info"

Halogenated flame retardants are not used in printed wiring boards.

PDW-R1 XDCAM Field Recorder (Playback and Recording)

Features

•Recording of MPEG IMX/DVCAM recordings •MPEG IMX/DVCAM recording and playback •High-resolution AV files (MPEG IMX/DVCAM) and Proxy AV (low-resolution audio and video) files can be transfered via its Ethernet interface or i.LINK (file access mode(*1)) interfaces •High-speed transfer of proxy AV data at 30-times speed (via its i.LINK (file access mode) interface). •Long recording time; MPEG IMX at 30 Mb/s: 68 min., 40 Mb/s; 55 min., 50 Mb/s; 45 min., DVCAM; 85 min. •Metadata recording •Ability to write EDL data (Clip List) back onto disc •Compact, lightweight design •Allows transfer speeds of 1.25x for MPEG IMX (at 50 Mb/s) and 2.5x for DVCAM streams (equipped with one optical head via its i.LINK (file access mode) interface) •3.5 inch(2) type colour LCD screen for monitoring pictures and black-and-white LCD screen for displaying information such as time codes, audio meters and disc capacity •Thumbnail Search operation •Scene Selection operation •AC/DC/battery-powered operation •Built-in audio speaker •Network connectivity (100Base-TX)



(*1) For connection with third party products using this mode, please contact your nearest Sony office. (*2) Viewable area measured diagonally

·Search speed (in colour) - JOG: -1 to 1 times normal speed, Shuttle: +-20 times normal speed •i.LINK (DV stream) output

Supplied Accessories

from MPEG IMX playback

Operation manual (1) PDZ-1 proxy browsing software (1) Proxy viewer

Optional Accessories

PFD23A Disc Professional Disc BP-GL95 Rechargeable Lithium-ion Battery Pack BP-L80S Rechargeable Lithium-ion Battery Pack BC-L70A Ni-MH & Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger BC-L500 Ni-MH & Li-ion Battery VMC-IL46 cables 4-pin <-> 6-pin i.LINK Cable VMC-IL66 cables 6-pin <-> 6-pin i.LINK Cable

Specifications General

Power requirements: AC 100 to 240 V, 50/60 Hz, DC (with battery), EXT-DC Operating temperature: +0 to +40°C (+32 to +104°F) Storage temperature: -20 to +60°C (-4 to +140°F) Humidity: 10 to 90% (relative humidity)

Storage humidity:

Less than 90%

Mass 4.0kg

Dimensions (W x H x D): 230 x 100 x 352 mm

Recording format Proxy Video: MPEG-4

Proxv Audio

A-law (8/4 ch, 8 bit, 8 kHz) Recording and Playback format

> MPEG IMX (50/40/30 Mb/s), DVCAM (25 Mb/s)

Proxy Video:

MPEG-4

Audio:

MPEG IMX: 8 ch/16 bit/48 kHz or 4 ch/24 bit/48 kHz

DVCAM: 4 ch/16 bit/48 kHz

Proxy Audio:

A-law (8/4ch, 8 bit, 8 kHz)

Playback time

MPEG IMX:

50 Mb/s: 45 min., 40 Mb/s: 55 min., 30 Mb/s: 68 min.

DVCAM:

85 min.

Search speed (in colour)

Jog mode:

+-1 times normal playback speed Shuttle mode:

+-20 times normal playback speed

Signal inputs

Ref. Video:

BNC x1 , 1.0 Vp-p, 75 Ω , sync negative Analogue composite video:

BNC x1 , 1.0 Vp-p, 75 Ω , sync negative

BNC 1, SMPTE 259M (ITU-R BT656-3), 270 Mb/s

Analogue Audio:

XLR x 2(channel selectable).

+4/0/-3/-6dBu(selectable from menu)

10 k Ω , balanced

Digital Audio(AES/EBU):

BNC x2, 4 channels

Time code: BNC x1

Signal outputs

Analogue composite video: BNC x1 (character out), 1.0 Vp-p, 75 Ω , sync negative SDI output:

BNC x1, SMPTE 259M (ITU-R BT656-3),

BNC x1 (character out), SMPTE 259M (ITU-R BT656-3), 270 Mb/s

Audio output

XLR x 2 (channel selectable),

+4/0/-3/-6 dBu (selectable from menu) 600 Ω load, low impedance, balanced

Digital Audio(AES/EBU) output 1/2, 3/4

BNC x2, 4channels

Audio monitor output:

XLR output can be switched to monitor by SetupMenu

Headphone output:

Jack x1, -∞ ~ -13 dBu, 8 Ω, unbalanced

Other inputs/outputs

i.I INK:

IEEE 1394, DV IN/OUT or file access mode, 6-pin x 1

Ethernet:

100Base-TX (RJ-45 x1)

RS-422A

D-sub 9-pin x1(VTR protocol)

4-pin, Supplies power of 12V DC to the BVR-3 or RM-280 Remote control unit.

Video performance

Sampling frequency:

Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz

Quantisation:

10 bits/sample

Error correction:

Reed Solomon Code

"Eco Info"

Halogenated flame retardants are not used in printed wiring boards

CBK-FC01 Pull-down (24P shooting) Board

Features

• Provides progressive modes of 23.976P to offer a film-like effect

*Recording to disc is in 59.94i via 2-3 pull-down.

Note: Only applicable for NTSC versions, PDW-510P & PDW-530P containing 25P function as standard

Applicable Models

PDW-510 NTSC version XDCAM Camcorder (DVCAM Recording)
PDW-530 NTSC version XDCAM Camcorder (MPEG IMX/DVCAM Recording)



CBK-NC01 Ethernet (100Base-TX) Adaptor

Features

•Allows PDW-530/530P//510/510P camcorders to connect to an Ethernet network

Applicable Models

PDW-510 NTSC version XDCAM Camcorder (DVCAM Recording)
PDW-510P PAL version XDCAM Camcorder (DVCAM Recording)
PDW-530 NTSC version XDCAM Camcorder (MPEG IMX/DVCAM Recording)
PDW-530P PAL version XDCAM Camcorder (MPEG IMX/DVCAM Recording)

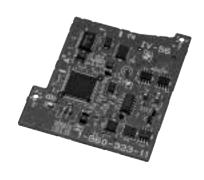


CBK-SC01 Analogue Composite Input Board

Analogue composite input board for PDW-530/530P/510/510P camcorders

Applicable Models

PDW-510 NTSC version XDCAM Camcorder (DVCAM Recording)
PDW-510P PAL version XDCAM Camcorder (DVCAM Recording)
PDW-530 NTSC version XDCAM Camcorder (MPEG IMX/DVCAM Recording)
PDW-530P PAL version XDCAM Camcorder (MPEG IMX/DVCAM Recording)

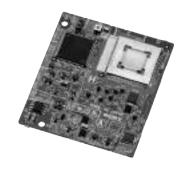


CBK-SD01 SDI Output Board

SDI output board for PDW-530/530P/510/510P, DVW-970/970P, MSW-970/ 970P camcorders

Applicable Models

PDW-510 NTSC version XDCAM Camcorder (DVCAM Recording)
PDW-510P PAL version XDCAM Camcorder (DVCAM Recording)
PDW-530 NTSC version XDCAM Camcorder (MPEG IMX/DVCAM Recording)
PDW-530P PAL version XDCAM Camcorder (MPEG IMX/DVCAM Recording)
DVW-970 Digital Betacam Camcorder DVW-970P Digital Betacam Camcorder MSW-970P MPEG IMX Camcorder MSW-970P MPEG IMX Camcorder MSW-970P MPEG IMX Camcorder



PDJ-C1080 Professional Disc Cart Machine

Equally suitable for both transmission and storage applications. The PDJ-C1080 Professional Disc Cart Machine combines the robustness of cart based AV playout with the advantages of the networkable non-linear XDCAM optical disc-based storage media.

Features

The PDJ-C1080 Professional Disc Cart is an automatic changer system for optical disc cartridges that features multiple video decks (PDW-1500 Professional Disc Recorders) and disc cartridge shelves called "bin units". The PDJ-C1080 has the capacity for up to 4 PDW-1500 decks, with bins to hold up to 80 discs included in the standard product. In other words, capacity is provided to load up to 113 hours of program material making this an ideal solution for automated playout & recording applications.

By using standard VCC protocol for control, the PDJ-C1080 has been designed as a "drop-in" replacement for existing flexicart systems, requiring minimal re-programming to interface with popular automation systems and reducing disruption to existing workflows.





Supplied Accessories

Operation Manual (1) Installation Manual (1) Anchor plate (1 set) Eye bolt (4)

Optional Accessories

PDW-1500 Professional Disc Recorder PFD23 Optical Disc Cartridge RCC-5G Remote Cable (5 m)

Specifications

General

Power requirements:
100 to 240 V AC, 50/60Hz

Current drain
9 to 3.75 A (not including video decks)

Peak inrush current
Power ON, current probe method:
60 A (100V), 95 A (240V)

Hot switching inrush current, measured in accordance with European standard
EN55103-1: 45 A (230V)

Dimensions:
450 x 1830 x 900 mm (w/h/d)
(17 3/4 x 72 3/4 x 35 1/2 inches)

Mass:

approx. 170 kg (374 lb 1 oz) (not including video decks and optional disc cartridges)

(not including projecting parts)

Performance

Number of storable optical disc cartridges:
up to 80

Number of mountable video decks:
up to 4

Remote control interface:
RS-232C, RS-422A (VCC cart control protocol)

Parallel I/O interface:
D-sub 50-pin

Environmental conditions

Environmental conditions

Operating temperature:
 5°C to 35°C (41°F to 95°F)

Storage temperature:
 -20°C to +55°C (-4°F to +131°F)

Operating humidity:
 20% to 90% (at 25°C/77°F, no condensation)

Storage humidity:
 less than 75% (at 55°C/131°F or less)

Barcodes

Optical disc cartridges to be used in this Disc Cart are controlled using barcodes of the following specifications:

Code

Code 39

Print format

16 characters x 3 lines

Character format ASCII codes

Narrow bar width: 0.19 mm

PDJ-A640 Professional Disc Cart Machine

With increased storage capacity and the flexibility to operate in both SD and HD, the PDJ-A640 Professional Disc Cart Machine can be used for a variety of applications including near-line archive storage, automatic ingest to production systems, and disc distribution etc.

Features

The PDJ-A640 Professional Disc Cart is an automatic changer system for optical disc cartridges that features multiple XDCAM video decks and disc cartridge shelves called "bin units". The PDJ-A640 has the capacity for up to 4 XDCAM decks; models supported are PDW-1500 (SD) and PDW-F70 (HD). Up to 640 discs can be installed in the unit to provide a storage capacity of up to 1,300 hours of program material making this an ideal solution for near-line storage and archival.



Supplied Accessories

Operation Manual (1) Installation Manual (1) Eye bolt (4)

Optional Accessories

PDW-1500/PDW-F70 Professional
Disc Recorder
PDBK-A640 Professional Disc Cart Kit for
PDW-F70
PFD23 Optical Disc Cartridge
RCC-5G Remote Control Cable (5 m)
AC Power Cords
For Great Britain:
1-777-823-12 (250V/10A, approx. 2.0 m)

For European countries except Great Britain: 1-551-631-15 (250V/10A, approx. 2.0 m)

Specifications

Power requirements

General

100 to 240 V AC, 50/60 Hz Current drain 4 to 1.7 A (not including video decks) Peak inrush current (1) Power ON, current probe method: 65 A (100 V), 95 A (240 V)

65 A (100 V), 95 A (240 V)
(2) Hot switching inrush current, measured in accordance with European standard EN55103-1: 50 A (230 V)

Dimensions:

680 x 1950 x 1000 mm (w/h/d) (26 7/8 x 76 7/8 x 39 3/8 inches)

Mass

approx. 330 kg (727 lb 8 oz) (not including video decks and optical disc cartridges)

Performance/capacity

Number of storable optical disc cartridges up to 640 Number of mountable video decks

up to 4

REF.VIDEO

Input connectors

BNC type 2, Black Burst or Composite Video (1.0 Vp-p/75 Ω/ unbalanced) LTC IN BNC type 1

(0 to 8 dBs/3.3 k Ω / unbalanced) **Control connectors**

RS-422A D-sub 9-pin, female 1

D-sub 25-pin, female 1

RS-232C D-sub 25 DECK1 to 4

D-sub 9-pin, female 4

GPI

D-sub 50-pin, female 1 (network) RJ-45 1, 10BASE-T/100BASETX

Environmental conditions

Operating temperature 5 °C to 35 °C (41 °F to 95 °F) Storage temperature -20 °C to +55 °C (-4 °F to +131 °F)

Operating humidity 20% to 90% (at 25 °C/77 °F,

no condensation)

Storage humidity less than 75% (at 55 °C/131 °F or less)

Barcodes

Optical disc cartridges to be used in this Disc Cart are controlled using barcodes of the following three-line type or single-line type:

Code 39 Print format

16 characters 3 lines Narrow bar width: 0.19 mm Character format

ASCII codes

PDJ-CS10 Cart Interface Software

Configured with PDJ-CS10 Cart Interface Software, the PDJ-C1080 and PDJ-A640 can interface with MXF-compliant editing and asset management systems from other leading vendors. Professional Discs resident in the PDJ-C1080 or PDJ-A640 appear to external systems via standard FTP or CIFS protocols as a shared network drive. The contents of each Professional Disc appear as a subfolder of the shared drive. The PDJ-CS10 software application provides powerful disc capacity management, automatically storing clips to an available Professional Disc of the appropriate video format and with available free disc space.

Quick restores from archived content

Restoring content from the near-line archive is quicker than with tape. The ultra-reliable robotic loader can select the required disc in less than 30 seconds, and content can be restored from disc to the main news production system twice as fast as real time. The result? A 10-minute piece can be restored from archive and available to on-line users for editing in just over 5 minutes.

Simple, web-based management interface

All file management and system functions – including Disc ID, Title, Bin Number, File and Last Access date – can be reviewed via an easy-to-use browser based interface. This allows the cart operator to quickly search for and identify Professional Discs, with tracking of both near-line discs resident in the PDJ-C1080 or PDJ-A640 robots as well as discs moved off-line to shelf storage.



System Requirements

The following environment is recommended for PDJ-CS10.

CPU: Intel Pentium 4, or Xeon, 2.8GHz over.

Memory: 2GB

HDD: 1st 80GB, 2nd 250GB

Network: 1000Base-T

OS: Preinstall Red Hat(R) Enterprise Linux ES 3 (32bit)

DB: Oracle 10g Standard Edition One

for Linux (x86) Release 1 (10.1.0) Distribution Package

SONY

gital Betacam

Digital Betacam

DVW-970P	180
DVW-M2000	182
DVW-M2000P	184
DVW-2000	186
DVW-2000P	188
J-30	190
130/001	101

DVW-970P Digital Betacam Camcorder

Features

Superb picture quality of the Digital Betacam format Power HAD EX CCD •14-bit A/D conversion and Advanced Digital Signal Processing (ADSP) •High-quality digital audio: four-channels, 20-bit/48 kHz •Long recording time of 40 minutes on an S cassette •Compact and lightweight: 5.4 kg (11 lb 14 oz) including the VF, microphone, tape, and BP-GL95 battery •Low power consumption of approximately 29 W •Stereo audio output

- Camera remote control using RM-B150/B750
- •Dual optical filters plus electric colour correction
- •Battery-remaining display on viewfinder •Assignable functions •Intelligent light system •Turbo gain: max. +48 dB •Adjustable shoulder pad •Slot for WRR-855 series wireless microphone receiver •Memory Stick system stores camera setup parameters •Film-like images with progressive mode •Slow shutter mode: max. 16 frames •Picture cache and interval recording (the optional CBK-MB01 required) •Selectable gamma table including film-like gamma •TruEye processor •Adaptive highlight control •Triple skin tone detail control •Variable black gamma range •Auto-Tracing White balance (ATW) •Multi-Matrix function •Electronic soft focus •Colour temperature control •Essence Mark and UMID handling



Supplied Accessories

Operation manual (1)
Viewfinder (1)
Lens cap (1)
Shoulder belt (1)
Monaural microphone (1)

Optional Accessories

CBK-SD01 SDI Output Board CBK-MB01 Picture Cache Board BKW-401 Viewfinder Rotation Bracket RM-B150 Remote Control Unit RM-B750 Remote Control Unit AC-DN2B AC Adaptor AC-DN10 AC Adaptor/Charger BP-GL65 Rechargeable Lithium-ion Battery Pack BP-GL95 Rechargeable Lithium-ion Battery Pack BP-L60S Rechargeable Lithium-ion Battery Pack BP-L80S Rechargeable Lithium-ion Battery Pack BC-L70 Li-ion Battery Charger BC-L500 Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger VCT-14 Tripod Adaptor BCT-D Series Digital BETACAM Tapes "Memory Stick" IC Memory Media ECM-678 Electret Condenser Microphone ECM-674 Electret Condenser Microphone WLL-CA50 Wireless Camera Transmitter WLL-RX55 Wireless Camera Receiver WRR-855B UHF Synthesized Diversity Tuner WRR 862B UHF Synthesized Dual Diversity Tuner

Digital Betacam

Specifications

General

Power requirements

DC 12 V +5.0 V/-1.0 V

Power consumption

29 W (with DC 12 V power supply,

REC mode, with viewfinder)

Operating temperature

0 to +40 °C (+32 to +104 °F)

Storage temperature

-20 to +60 °C (-4 to +140 °F)

Operating humidity

25 to 85% (relative humidity)

Approx. 3.7 kg (8 lb 3 oz)

Approx. 5.4 kg (11 lb 14 oz)

(with viewfinder, microphone,

BP-GL95 battery, BCT-D40 tape)

-20 °C to +60 °C (-4 °F to +140 °F)

Continuous operating time

Approx. 170 min. with BP-GL95 battery at

25 °C (77 °F), REC mode

Signal inputs/outputs

Genlock video input

BNC type (1), 1.0 Vp-p, 75 Ω

Audio input (CH-1/2)

XLR-3-31 type (2), -60/-50/-40/+4 dBu (*1) selectable, high impedance, balanced

Microphone input

XLR-3-31 type (1), -60/-50/-40 dBu (*1)

Time code input

BNC type (1), 0.5 to 18 Vp-p, 10 k Ω

Analogue composite output

BNC type (1), 1.0 Vp-p, 75 Ω

SDI output

BNC type (1), 0.8 Vp-p, 75 Ω

(the optional CBK-SD01 is required)

Video test output

BNC type (1), 1.0 Vp-p, 75 Ω

Audio output (CH-1/2)

XLR-5-pin, male (stereo)

Time code output

BNC type (1), 1.0 Vp-p, 75 Ω

Earphone output

Mini-jack (2)

Other inputs/outputs

Lens

12-pin VF

20-pin

Remote

niq-8

Wireless microphone

D-Sub 15-pin

Light

2-pin, DC 12 V, max. 50 W

DC input

4-pin (for wireless microphone receiver),

DC 12 V (max. 0.1 A)

DC output

4-pin (for wireless microphone receiver),

DC 12 V (max. 0.1 A)

Battery terminal

5-pin

Camcorder adaptor

40-pin

Camera section

Pickup device

Pickup device

3-chip 2/3-inch type Power HAD EX CCD

Aspect ratio

16:9/4:3 switchable

Total picture elements (H x V)

1038 x 1188

Effective picture elements (H x V)

980 x 1164

Optical system

Spectral system

F1.4 prism (with quarts filter)

Built-in filters

1: Clear, 2: 1/4ND, 3: 1/16ND,

4: 1/64ND. A: CROSS. B: 3200K.

C: 4300K, D: 6300K

Lens mount

2/3-inch type Sony bayonet mount

Electrical characteristics

Scan format

625/50i, 625/25p

A/D conversion

14 bits

Sensitivity

F11 (typical) (2000 lx, 89.9% reflectance)

Minimum illumination

0.008 lx (F1.4 lens, +48 dB gain, with slow shutter mode at 16-frame

accumulation)

Smear level

-145 dB (typical)

Video S/N ratio

63 dB (typical)

Vertical resolution 480 TV lines (with EVS) and

530 TV lines (without EVS) at

625/50i mode

575 TV lines at 625/25p mode

Shutter speed

1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at 625/50i mode

1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at

625/25p mode

ECS

50 to 6000 Hz at 625/50i mode 25 to 6000 Hz at 625/25p mode

Slow shutter

1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3.1, 1/1.6 s (1 to 8, 16 frames)

Gain selection -3, 0, 3, 6, 9, 12, 18, 24, 30, 36, 42,

48 dB (for GAIN LOW, GAIN MID, GAIN HIGH and GAIN TURBO positions)

Registration

0.05% (all zones, without lens)

Warm-up time

2 S

Modulation depth at 5 MHz

70% (16:9 typical)/55% (4:3 typical)

VTR Section

Recording format

Video

Digital BETACAM

Audio

4 ch/20 bits/48 kHz

Tape speed

96.7 mm/s

Record/playback time

Approx. 5 min (with the BCT-D40 cassette)

Rewind time

Approx. 5 min (with the BCT-D40 cassette)

Recommended recording media

Sony Digital Betacam S cassette:

BCT-D6/D12/D22/D32/D40

Sampling frequency

Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz

Quantization

10 bits/sample

Digital video performance

K-factor (2T pulse)

Less than 1%

Y/C delay Less than 15 ns

Digital audio performance (*2) Frequency response

20 Hz to 20 kHz, +0.5/-0.8 dB

Dynamic range

More than 85 dB (emphasis on)

Distortion (at 1 kHz, emphasis ON, reference level)

Less than 0.08%

"Cross talk (at 1 kHz, reference level)"

Less than -70 dB

Wow & flutter

Below measurable limit

Headroom 20 dB (ex-factory setting)

Viewfinder

2.0-inch type monochrome

Controls BRIGHT, CONTRAST, PEAKING controls,

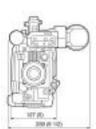
TALLY, ZEBRA, DISPLAY switches Horizontal resolution

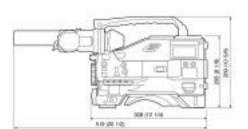
450 TV lines (16:9)/600 TV lines (4:3)

Board.

Microphone Electret condenser michrophone (Ultra-directional) (detachable)

(*1) 0 dBu=0.775 Vrms. (*2) The specifications given above were measured via CBK-SD01 SDI Output





Unit: mm (inch)

DVW-M2000 Digital Betacam Recorder

Features

·Superb picture quality and high sound quality of Digital Betacam format •Powerful legacy playback capability of MPEG IMX, Betacam SX, Betacam SP and Betacam as well as Digital Betacam format •HD upconversion output capability (1080/59.94i, 720/59.94p)(option: *1) •Compact 4U height design and light weight •High-quality fourchannel 20-bit digital audio •Long recording time of 124 minutes on an L-cassette and 40 minutes on an S-cassette • Versatile interfaces including SDI I/O, analogue component I/O, digital and analogue audio I/O, time code I/O, analogue composite I/O and 50-pin parallel remote interface as standard •Frame-accurate insert/assemble editing . Pre-read editing capability •Digital audio jog sound •High-speed picture search • Variable speed playback • Dynamic Motion Control (DMC) functionality •Easy setup using "Memory Stick" media •Shot mark handling •UMID handling •Built-in Tele-File reader/writer to read and write information onto and from a cassette with an optional Tele-File label attached •Optional remote control panel BKDW-101 •Built-in signal generator •Can be installed in LMS and Flexicart systems





Supplied Accessories

PSW 4x16 rack mount screws (4) Operation manual (1) Installation manual (1)

Optional Accessories

BKDW-101 Remote Control Panel
BKMW-102 Remote Control Unit
BKMW-103 Control Panel Extention Kit
BKMW-104 HD Up-converter Board (*1)
RCC-G Cables 9-pin/9-pin Cable
RMM-131 Rack Mount Kit
MSA-A "Memory Stick" IC Memory Media
BCT-D tapes BCT-D Series Digital Betacam Tapes

Digital Betacam

Specifications

General

Power requirements:

AC 100 V to 240 V, 50/60 Hz

Power consumption:

220 W

Operating temperature:

+5°C to +40°C (+41°F to +104°F)

Storage temperature:

-20°C to +60°C (-4°F to +140°F)

Humidity:

20% to 90% (relative humidity)

Mass:

23.5 kg (52 lb 11 oz)

Dimensions (W x H x D):

427 x 174 x 544 mm (16 7/8x 6 7/8x 21 1/2

Tape speed

Digital BETACAM: 96.7 mm/s

MPEG IMX:

64 467 mm/s

BETACAM SX:

59.515 mm/s BETACAM/BETACAM SP:

118.6 mm/s

Recording/playback time (Digital Betacam):

Max. 124 min with BCT-D124L cassette Fast forward/rewind time:

Approx. 3 min with BCT-D124L cassette

Search speed range

Digital BETACAM:

±50 times normal playback speed

MPEG IMX:

±78 times normal playback speed BETACAM SX

±78 times normal playback speed BETACAM/BETACAM SP:

±35 times normal playback speed

Servo lock time:

0.5 s or less (from standby on)

I nad/unload time:

6 s or less

Input/output signals

Analogue composite input:

BNC (x2, including one loop through output), 1.0 Vp-p, 75 Ω, sync negative

Analogue composite output:

BNC (x3, including one character out), 1.0 Vp-p, 75 Ω , sync negative

Analogue component input:

BNC (x3, for 1 set, Y/R-Y/B-Y),Y: 1.0 Vp-p,

75 Ω, sync negative, R-Y/B-Y: 0.7 Vp-p,

Analogue component output:

BNC (x3, for 1 set, Y/R-Y/B-Y), Y: 1.0 Vp-p, 75 Ω, sync negative, R-Y/B-Y: 0.7 Vp-p,

75 Ω

BNC (x2, including one active through out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

SDI output:

BNC (x3, including one character out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

HD-SDI output (option):

BNC (x3)

Analogue audio input:

XLR (x4) (4CH: channel selectable)

Analogue audio output:

XLR (x4) (4CH: channel selectable)

Cue audio input:

XLR (x1, only Digital Betacam recording)

Cue audio output:

XLR (x1, only Digital Betacam playback)

Digital audio input:

BNC (x2), 4 channels, AES/EBU, default 48 kHz (32 to 48 kHz with sample rate converter), complies with AES-3id-1995

Digital audio output:

BNC (x4), 8 channels, AES/EBU, 48 kHz fixed, complies with AES-3id-1995

Remote control

Remote (RS-422A):

D-sub 9-pin (x2), Sony 9-pin remote interface

RS-232C (ISR*):

D-sub 9-pin (x1), RS-232C interface

Parallel remote:

D-sub 50-pin (x1)

Video control:

D-sub 15-pin (x1, for connection with BVR-50 Video Controller)

D-sub 9-pin (x1, for connection with HKDV-503/900 Video Controller)

Control panel:

Circular connector 10-pin

Time code input:

XLR (x1)

Time code output:

XLR (x1)

Memory card insertion slot:

Memory Stick slot (x1)

Monitor output L/R:

XLR (x2) (channel selectable)

Phones:

JM-60 Stereo phone jack

Processor adjustment range

Video level:

±3 dB/ -∞ to 3 dB selectable

Chroma level:

±3 dB/ -∞ to 3 dB selectable

Set up/black level:

±30 IRF/±210 mV

Chroma phase/hue:

±30°

System sync phase:

±15 μs

System SC phase:

±200 ns

Y/C delay: ±100 ns (BETACAM/BETACAM SP

playback only)

Composite input level:

±3 dB

Digital video performance

Sampling frequency:

Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz

Quantization:

10 bits/sample

Error correction:

Reed-Solomon code

Digital input to analogue component output:

D/A quantization: 10 bits/sample Bandwidth: Y: 0 to 5.75 MHz +0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB

S/N ratio: 62 dB or more, K-factor (2T pulse): 1% or less

Analogue component input to analogue

component output: A/D and D/A quantization: 10 bits/sample Bandwidth: Y: 0 to 5.75 MHz +0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB S/N ratio: 56 dB or more, K-factor (2T pulse): 1% or less, LF non-linearity:3% or

Analogue composite input to analogue composite output:

A/D and D/A quantization: 10 bits/sample, Bandwidth: 0 to 5.75 MHz +0.5/-2.0 dB S/N ratio: 56 dB or more, Differential gain: 2% or less, Differential phase: 2° or less Y/C delay: 20 ns or less, K-factor (2T pulse): 1% or less

Digital audio performance

Sampling frequency:

48 kHz (synchronized with video)

Quantization:

20 bits/sample

Analogue input to analogue output:

Frequency response (0 dB at 1kHz): 20 Hz to 20 kHz +0.5/-1.0 dB

Dynamic range (at 1 kHz, emphasis ON):

More than 95 dB Distortion (at 1 kHz, emphasis ON,

reference level): Less than 0.05%

Cross talk (at 1 kHz, between any two channels): Less than -80 dB, Wow & flutter:

Head room:

Below measurable level 20 dB (18 dB selectable)

Emphasis (ON/OFF selectable in REC mode):

T1=50 µs, T2=15 µs

DVW-M200P Digital Betacam Recorder

Features

·Superb picture quality and high sound quality of Digital Betacam format •Powerful legacy playback capability of MPEG IMX, Betacam SX, Betacam SP and Betacam as well as Digital Betacam format •HD upconversion output capability (1080/50i) (option: *1) • Compact 4U height design and light weight •High-quality four-channel 20-bit digital audio •Long recording time of 124 minutes on an L-cassette and 40 minutes on an S-cassette • Versatile interfaces including SDI I/O, analogue component I/O, digital and analogue audio I/O, time code I/O, analogue composite I/O and 50-pin parallel remote interface as standard •Frame-accurate insert/assemble editing ·Pre-read editing capability ·Digital audio jog sound •High-speed picture search •Variable speed playback • Dynamic Motion Control (DMC) functionality • Easy setup using "Memory Stick" media •Shot mark handling •UMID handling •Built-in Tele-File reader/writer to read and write information onto and from a cassette with an optional Tele-File label attached •Optional remote control panel BKDW-101 •Built-in signal generator •Can be installed in





Supplied Accessories

PSW 4x16 rack mount screws (4) Operation manual (1) Installation manual (1)

LMS and Flexicart systems

Optional Accessories

BKDW-101 Remote Control Panel
BKMW-102 Remote Control Unit
BKMW-103 Control Panel Extention Kit
BKMW-104 HD Up-converter Board (*1)
RCC-G Cables 9-pin/9-pin Cable
RMM-131 Rack Mount Kit
MSA-A "Memory Stick" IC Memory Media
BCT-D tapes BCT-D Series Digital Betacam
Tapes

Digital Betacam

Specifications

General

Power requirements:

AC 100 V to 240 V, 50/60 Hz

Power consumption:

220 W

Operating temperature:

+5°C to +40°C (+41°F to +104°F)

Storage temperature:

-20°C to +60°C (-4°F to +140°F)

Humidity:

20% to 90% (relative humidity)

Mass: 23.5 kg (52 lb 11 oz)

Dimensions (W x H x D):

427 x 174 x 544 mm (16 7/8x 6 7/8x 21 1/2

Tape speed

Digital BETACAM:

96.7 mm/s

MPEG IMX: 53 776 mm/s

BETACAM SX:

59.575 mm/s BETACAM/BETACAM SP:

101 51 mm/s

Recording/playback time (Digital Betacam):

Max. 124 min with BCT-D124L cassette Fast forward/rewind time:

Approx. 3 min with BCT-D124L cassette

Search speed range

Digital BETACAM:

±50 times normal playback speed MPEG IMX:

±78 times normal playback speed

BETACAM SX

±78 times normal playback speed BETACAM/BETACAM SP:

±42 times normal playback speed

Servo lock time:

0.7 s or less (from standby on)

Load/unload time: 6 s or less

Input/output signals

Analogue composite input:

BNC (x2, including one loop through output), 1.0 Vp-p, 75 Ω, sync negative

Analogue composite output:

BNC (x3, including one character out), 1.0 Vp-p, 75 Ω , sync negative

Analogue component input:

BNC (x3, for 1 set, Y/R-Y/B-Y),Y: 1.0 Vp-p, 75 Ω, sync negative, R-Y/B-Y: 0.7 Vp-p,

Analogue component output:

BNC (x3, for 1 set, Y/R-Y/B-Y), Y: 1.0 Vp-p, 75 Ω, sync negative, R-Y/B-Y: 0.7 Vp-p,

75 Ω

BNC (x2, including one active through out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

SDI output:

BNC (x3, including one character out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

HD-SDI output (option):

BNC (x3)

Analogue audio input:

XLR (x4) (4CH: channel selectable)

Analogue audio output:

XLR (x4) (4CH: channel selectable)

Cue audio input:

XLR (x1, only Digital Betacam recording)

Cue audio output:

XLR (x1, only Digital Betacam playback)

Digital audio input:

BNC (x2), 4 channels, AES/EBU, default 48 kHz (32 to 48 kHz with sample rate converter), complies with AES-3id-1995

Digital audio output:

BNC (x4), 8 channels, AES/EBU, 48 kHz fixed, complies with AES-3id-1995

Remote control

Remote (RS-422A):

D-sub 9-pin (x2), Sony 9-pin remote interface

RS-232C (ISR*):

D-sub 9-pin (x1), RS-232C interface

Parallel remote:

D-sub 50-pin (x1)

Video control:

D-sub 15-pin (x1, for connection with BVR-50P Video Controller)

D-sub 9-pin (x1, for connection with HKDV-503/900 Video Controller)

Control panel:

Circular connector 10-pin

Time code input:

XLR (x1)

Time code output:

XLR (x1)

Memory card insertion slot:

Memory Stick slot (x1)

Monitor output L/R:

XLR (x2) (channel selectable)

Phones:

JM-60 Stereo phone jack

Processor adjustment range

Video level:

±3 dB/ -∞ to 3 dB selectable

Chroma level:

±3 dB/ -∞ to 3 dB selectable

Set up/black level: ±30 IRF/±210 mV

Chroma phase/hue:

±30°

System sync phase:

±15 μs

System SC phase:

±200 ns

Y/C delay:

±100 ns (BETACAM/BETACAM SP

playback only)

Composite input level: ±3 dB

Digital video performance

Sampling frequency:

Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz

Quantization:

10 bits/sample

Error correction:

Reed-Solomon code

Digital input to analogue component output: D/A quantization: 10 bits/sample

Bandwidth: Y: 0 to 5.75 MHz +0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB S/N ratio: 62 dB or more, K-factor (2T

pulse): 1% or less Analogue component input to analogue

component output: A/D and D/A quantization: 10 bits/sample Bandwidth: Y: 0 to 5.75 MHz +0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB S/N ratio: 56 dB or more, K-factor (2T pulse): 1% or less, LF non-linearity:3% or

Analogue composite input to analogue composite output:

A/D and D/A quantization: 10 bits/sample, Bandwidth: 0 to 5.75 MHz +0.5/-2.0 dB S/N ratio: 56 dB or more, Differential gain: 2% or less, Differential phase: 2° or less Y/C delay: 20 ns or less, K-factor (2T pulse): 1% or less

Digital audio performance

Sampling frequency:

48 kHz (synchronized with video)

Quantization:

20 bits/sample

Analogue input to analogue output:

Frequency response (0 dB at 1kHz): 20 Hz to 20 kHz +0.5/-1.0 dB

Dynamic range (at 1 kHz, emphasis ON):

More than 95 dB

Distortion (at 1 kHz, emphasis ON, reference level): Less than 0.05%

Cross talk (at 1 kHz, between any two channels): Less than -80 dB, Wow & flutter:

Head room:

Below measurable level 20 dB (18 dB selectable)

Emphasis (ON/OFF selectable in REC mode): T1=50 µs, T2=15 µs

DVW-2000 Digital Betacam Recorder

Features

·Superb picture quality and high sound quality of Digital Betacam format •HD upconversion output capability (1080/59.94i, 720/59.94p) (option: *1) •Compact 4U height design and light weight •High-quality four-channel 20-bit digital audio •Long recording time of 124 minutes on an L-cassette and 40 minutes on an S-cassette · Versatile interfaces including SDI I/O, analogue component I/O, digital and analogue audio I/O, time code I/O, analogue composite I/O and 50-pin parallel remote interface as standard •Frame-accurate insert/assemble editing •Pre-read editing capability •Digital audio jog sound •High-speed picture search •Variable speed playback • Dynamic Motion Control (DMC) functionality ·Easy setup using "Memory Stick" media ·Shot mark handling •UMID handling •Built-in Tele-File reader/writer to read and write information onto and from a cassette with an optional Tele-File label attached •Optional remote control panel BKDW-101 •Built-in signal generator ·Can be installed in LMS and Flexicart systems





Supplied Accessories

PSW 4x16 rack mount screws (4) Operation manual (1) Installation manual (1)

Optional Accessories

BKDW-101 Remote Control Panel
BKMW-102 Remote Control Unit
BKMW-103 Control Panel Extention Kit
BKMW-104 HD Up-converter Board (*1)
RCC-G Cables 9-pin/9-pin Cable
RMM-131 Rack Mount Kit
MSA-A "Memory Stick" IC Memory Media
BCT-D tapes BCT-D Series Digital Betacam
Tapes

Digital Betacam

Specifications

General

Power requirements:

AC 100 V to 240 V, 50/60 Hz

Power consumption:

200 W

Operating temperature:

+5°C to +40°C (+41°F to +104°F)

Storage temperature:

-20°C to +60°C (-4°F to +140°F)

20% to 90% (relative humidity)

23.5 kg (52 lb 11 oz)

Dimensions (W x H x D):

427 x 174 x 544 mm (16 7/8x 6 7/8x 21 1/2

inches)

Tape speed

96.7 mm/s

Recording/playback time (Digital Betacam):

Max. 124 min with BCT-D124L cassette

Fast forward/rewind time:

Approx. 3 min with BCT-D124L cassette

Search speed range

±50 times normal playback speed

Servo lock time:

0.5 s or less (from standby on)

Load/unload time:

6 s or less

Input/output signals

Analogue composite input:

BNC (x2, including one loop through output), 1.0

Vp-p, 75 Ω, sync negative

Analogue composite output:

BNC (x3, including one character out), 1.0 Vp-p,

75 Ω , sync negative

Analogue component input:

BNC (x3, for 1 set, Y/R-Y/B-Y), Y: 1.0 Vp-p, 75 Ω,

sync negative, R-Y/B-Y: 0.7 Vp-p, 75 Ω

Analogue component output:

BNC (x3, for 1 set, Y/R-Y/B-Y), Y: 1.0 Vp-p, 75 Ω,

sync negative, R-Y/B-Y: 0.7 Vp-p, 75 Ω SDI input:

BNC (x2, including one active through out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

BNC (x3, including one character out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

HD-SDI output (option):

BNC (x3)

Analogue audio input:

XLR (x4) (4CH: channel selectable)

Analogue audio output:

XLR (x4) (4CH: channel selectable)

Cue audio input:

XLR (x1, only Digital Betacam recording)

Cue audio output:

XLR (x1, only Digital Betacam playback)

Digital audio input:

BNC (x2), 4 channels, AES/EBU, default 48 kHz (32 to 48 kHz with sample rate converter),

complies with AES-3id-1995

Digital audio output:

BNC (x2), 4 channels, AES/EBU, 48 kHz fixed, complies with AES-3id-1995

Remote control

Remote (RS-422A):

D-sub 9-pin (x2), Sony 9-pin remote interface

RS-232C (ISR*):

D-sub 9-pin (x1), RS-232C interface

Parallel remote:

D-sub 50-pin (x1)

Video control:

D-sub 15-pin (x1, for connection with BVR-50

Video Controller)

D-sub 9-pin (x1, for connection with HKDV-503/900 Video Controller)

Control panel:

Circular connector 10-pin

Time code input:

XLR (x1)

Time code output:

XLR (x1)

Memory card insertion slot:

Memory Stick slot (x1) Monitor output L/R:

XLR (x2) (channel selectable)

JM-60 Stereo phone jack

Processor adjustment range

Video level:

±3 dB/ -∞ to 3 dB selectable

Chroma level:

±3 dB/ -∞ to 3 dB selectable

Set up/black level:

±30 IRE/±210 mV

Chroma phase/hue: ±30°

System sync phase: ±15 µs

System SC phase:

±200 ns

Composite input level:

 $\pm 3 dB$

Digital video performance

Sampling frequency:

Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz

Quantization:

10 bits/sample

Error correction:

Reed-Solomon code

Digital input to analogue component output:

D/A quantization: 10 bits/sample

Bandwidth: Y: 0 to 5.75 MHz +0.5/-2.0 dB,

R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB

S/N ratio: 62 dB or more, K-factor (2T pulse):

1% or less

output:

Analogue component input to analogue component output:

A/D and D/A quantization: 10 bits/sample

Bandwidth: Y: 0 to 5.75 MHz +0.5/-2.0 dB.

R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB

S/N ratio: 56 dB or more, K-factor (2T pulse):

1% or less, LF non-linearity:3% or less Analogue composite input to analogue composite

A/D and D/A quantization: 10 bits/sample,

Bandwidth: 0 to 5.75 MHz +0.5/-2.0 dB

S/N ratio: 56 dB or more, Differential gain:

2% or less, Differential phase: 2° or less Y/C delay: 20 ns or less, K-factor (2T pulse):

1% or less

Digital audio performance

Sampling frequency:

48 kHz (synchronized with video)

Quantization: 20 bits/sample

Analogue input to analogue output:

Frequency response (0 dB at 1kHz): 20 Hz to

20 kHz +0.5/-1.0 dB

Dynamic range (at 1 kHz, emphasis ON): More

than 95 dB

Distortion (at 1 kHz, emphasis ON, reference

level): Less than 0.05% Cross talk (at 1 kHz, between any two channels):

Less than -80 dB, Wow & flutter: Below measurable level

Head room:

20 dB (18 dB selectable)

Emphasis (ON/OFF selectable in REC mode):

T1=50 µs, T2=15 µs

DVW-2000P Digital Betacam Recorder

Features

·Superb picture quality and high sound quality of Digital Betacam format •HD upconversion output capability (1080/50i)(option: *1) • Compact 4U height design and light weight •High-quality four-channel 20-bit digital audio •Long recording time of 124 minutes on an L-cassette and 40 minutes on an S-cassette • Versatile interfaces including SDI I/O, analogue component I/O, digital and analogue audio I/O, time code I/O, analogue composite I/O and 50-pin parallel remote interface as standard •Frame-accurate insert/assemble editing •Pre-read editing capability •Digital audio jog sound •High-speed picture search • Variable speed playback • Dynamic Motion Control (DMC) functionality •Easy setup using "Memory Stick" media •Shot mark handling •UMID handling •Built-in Tele-File reader/writer to read and write information onto and from a cassette with an optional Tele-File label attached •Optional remote control panel BKDW-101 •Built-in signal generator •Can be installed in LMS and Flexicart systems





Supplied Accessories

PSW 4x16 rack mount screws (4) Operation manual (1) Installation manual (1)

Optional Accessories

BKDW-101 Remote Control Panel BKMW-102 Remote Control Unit BKMW-103 Control Panel Extention Kit BKMW-104 HD Up-converter Board (*1) RCC-G Cables 9-pin/9-pin Cable RMM-131 Rack Mount Kit MSA-A *Memory Stick* IC Memory Media BCT-D tapes BCT-D Series Digital BETACAM Tapes

Digital Betacam

Specifications

General

Power requirements:

AC 100 V to 240 V, 50/60 Hz

Power consumption:

200 W

Operating temperature:

+5°C to +40°C (+41°F to +104°F)

Storage temperature:

-20°C to +60°C (-4°F to +140°F)

20% to 90% (relative humidity)

23.5 kg (52 lb 11 oz)

Dimensions (W x H x D):

427 x 174 x 544 mm (16 7/8x 6 7/8x 21 1/2

inches)

Tape speed

96.7 mm/s

Recording/playback time (Digital Betacam):

Max. 124 min with BCT-D124L cassette

Fast forward/rewind time:

Approx. 3 min with BCT-D124L cassette

Search speed range

±50 times normal playback speed

Servo lock time:

0.7 s or less (from standby on)

Load/unload time:

6 s or less

Input/output signals

Analogue composite input:

BNC (x2, including one loop through output),

1.0 Vp-p, 75 Ω , sync negative

Analogue composite output:

BNC (x3, including one character out), 1.0 Vp-p,

75 Ω , sync negative

Analogue component input:

BNC (x3, for 1 set, Y/R-Y/B-Y), Y: 1.0 Vp-p, 75 Ω,

sync negative, R-Y/B-Y: 0.7 Vp-p, 75 Ω

Analogue component output:

BNC (x3, for 1 set, Y/R-Y/B-Y), Y: 1.0 Vp-p, 75 Ω, sync negative, R-Y/B-Y: 0.7 Vp-p, 75 Ω

SDI input:

BNC (x2, including one active through out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

BNC (x3, including one character out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

HD-SDI output (option):

BNC (x3)

Analogue audio input:

XLR (x4) (4CH: channel selectable)

Analogue audio output:

XLR (x4) (4CH: channel selectable)

Cue audio input:

XLR (x1, only Digital Betacam recording)

Cue audio output:

XLR (x1, only Digital Betacam playback)

Digital audio input:

BNC (x2), 4 channels, AES/EBU, default 48 kHz (32 to 48 kHz with sample rate converter),

complies with AES-3id-1995

Digital audio output:

BNC (x2), 4 channels, AES/EBU, 48 kHz fixed, complies with AES-3id-1995

Remote control

Remote (RS-422A):

D-sub 9-pin (x2), Sony 9-pin remote interface RS-232C (ISR*):

D-sub 9-pin (x1), RS-232C interface

Parallel remote:

D-sub 50-pin (x1)

Video control:

D-sub 15-pin (x1, for connection with

BVR-50P Video Controller)

D-sub 9-pin (x1, for connection with HKDV-503/900 Video Controller)

Control panel:

Circular connector 10-pin

Time code input:

XLR (x1)

Time code output:

XLR (x1)

Memory card insertion slot:

Memory Stick slot (x1)

Monitor output L/R:

XLR (x2) (channel selectable)

JM-60 Stereo phone jack

Processor adjustment range

Video level:

±3 dB/ -∞ to 3 dB selectable

Chroma level:

±3 dB/ -∞ to 3 dB selectable

Set up/black level:

±30 IRE/±210 mV

Chroma phase/hue:

+30°

System sync phase: ±15 µs

System SC phase:

±200 ns

Composite input level:

+3 dB

Digital video performance

Sampling frequency:

Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz

Quantization:

10 bits/sample

Error correction:

Reed-Solomon code

Digital input to analogue component output:

D/A quantization: 10 bits/sample

Bandwidth: Y: 0 to 5.75 MHz +0.5/-2.0 dB,

R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB

S/N ratio: 62 dB or more, K-factor (2T pulse):

1% or less

output:

Analogue component input to analogue component output:

A/D and D/A quantization: 10 bits/sample

Bandwidth: Y: 0 to 5.75 MHz +0.5/-2.0 dB,

R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB

S/N ratio: 56 dB or more, K-factor (2T pulse):

1% or less, LF non-linearity:3% or less Analogue composite input to analogue composite

A/D and D/A quantization: 10 bits/sample,

Bandwidth: 0 to 5.75 MHz +0.5/-2.0 dB

S/N ratio: 56 dB or more, Differential gain:

2% or less, Differential phase: 2° or less Y/C delay: 20 ns or less, K-factor (2T pulse):

1% or less

Digital audio performance

Sampling frequency:

48 kHz (synchronized with video)

Quantization: 20 bits/sample

Analogue input to analogue output:

Frequency response (0 dB at 1kHz): 20 Hz to

20 kHz +0.5/-1.0 dB

Dynamic range (at 1 kHz, emphasis ON):

More than 95 dB

Distortion (at 1 kHz, emphasis ON, reference level): Less than 0.05%

Cross talk (at 1 kHz, between any two channels):

Less than -80 dB, Wow & flutter: Below measurable level

Head room:

20 dB (18 dB selectable)

Emphasis (ON/OFF selectable in REC mode):

T1=50 μs, T2=15 μs

J-30 1/2" Standard Definition Compact Player

The J-30 Compact Player is an affordable, compact office viewer for producers, journalists and production staff. The J-30 has been designed for viewing and logging of tapes and feeding material to non-linear editing systems. It has analogue composite and component video outputs, and an optional i.LINK output board can be installed for output of DV from Betacam-family tapes.

Features

•DV-device connectivity •Powerful playback capability (Betacam, Betacam SP, Betacam SX, MPEG IMX and Digital Betacam formats) •Compact body design •Replay of both small and large cassettes •525/625 versatility

 Analogue component output •Supports wireless infrared remote controller •Flexible audio outputs





Supplied Accessories

Infrared Remote Controller (1)

Specifications

General

Power requirement:

AC 100 V to 240 V, 50/60 Hz

Power consumption:

55 V

Operating temperature:

+5 °C to +40 °C (+41 °F to +104 °F)

Humidity:

25% to 80% (relative humidity)

Mass:

8.2 kg (18 lb 1 oz)

Dimension (W x H x D):

307 x 100 x 397 mm (12 1/8 x 4 x 15 3/4

inches)

Tape speed:

Digital Betacam: 96.7 mm/s

MPEG IMX: 64.467 mm/s (525 mode),

53.776 mm/s (625 mode)

Betacam SX: 59.515 mm/s (525 mode),

59.575 mm/s (625 mode)

Betacam/Betacam SP: 118.6 mm/s,

101.5 mm/s (625 mode)

Playback time:

Digital Betacam: Max. 124 min. with

BCT-D124L

MPEG IMX: Max. 184 min. (525 mode)/220

min. (625 mode) with BCT-184MXL Betacam SX: Max. 194 min. with

Betacam SX: Max. 194 min. w

BCT194SXLA

Betacam/Betacam SP: Max. 90 min. (525

mode)/108 min. (625 mode) with

BCT-90MLA

Fast forward/rewind:

Digital Betacam: Approx. 5 min. with

BCT-D124L

MPEG IMX: Approx. 5 min. with

BCT-184MXL

Betacam SX: Approx. 5 min. with

BCT-184SXLA

Betacam/Betacam SP: Approx. 5 min. with

BCT-90MLA

Search speed range:

Digital Betacam: ±21 times normal

playback speed

MPEG IMX: ±32 times normal playback

speed

Betacam SX: ±35 times normal playback

speed

Betacam/Betacam SP: ±18 times (525

mode), ±20 times (625 mode) normal

playback speed

Servo lock time:

1.5 s or less (from standby on)

Load/unload time:

7 s or less

Input signal

Ext. sync:

BNC (x 1), Frame lock

Output signal

Analogue composite:

BNC (x 1), Pin Jack (x 1), 1.0 Vp-p, 75 Ω

S-video output:

Mini DIN 4-pin (x 1), Y: 1.0 Vp-p, C; 0.286

Vp-p burst, 75 Ω

Analogue component output:

BNC (x 3), Y: 1.0 Vp-p, R-Y/B-Y: 0.7 Vp-p,

i.LINK (DV) output:

6-pin (x 1), IEEE 1394

Monitor output L/D

Monitor output L/R:

Pin Jack (x 2): -10 dBu at 47 k Ω load,

unbalanced, XLR (male x 2): +4 dBm, 600

 Ω load, low impedance, balanced

Headphone output:

JM-60 Stereo Phone Jack, - ∞ to -12 dBu at 8 Ω load, unbalanced

Remote Control

RS-422A

D-sub 9-pin (female) (x 1), Sony 9-pin

remote interface

RS-232C:

D-sub 9-pin (male) (x 1)

Wireless: SIRCS

SIRCS

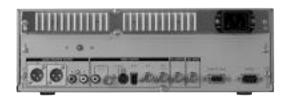
J-30/SDI 1/2" Standard Definition Compact Player

The J-30/SDI Compact Player is an affordable, compact office viewer for producers, journalists and production staff. The J-30/SDI has been designed for viewing and logging of tapes and feeding material to non-linear editing systems. It has analogue composite and SDI video outputs, and an optional i.LINK output board can be installed for output of DV from Betacam-family tapes.

Features

•DV-device connectivity •Powerful playback capability (Betacam, Betacam SP, Betacam SX, MPEG IMX and Digital Betacam formats) • Compact body design • Replay of both small and large cassettes •525/625 versatility •SDI outputs (x 2) •Supports wireless infrared remote controller •Flexible audio outputs •UMID and Essence mark readable





Supplied Accessories

Infrared Remote Controller (1)

Specifications

General

Power requirement:

AC 100 V to 240 V, 50/60 Hz

Power consumption:

Operating temperature:

+5 °C to +40 °C (+41 °F to +104 °F)

Humidity:

25% to 80% (relative humidity)

8.2 kg (18 lb 1 oz)

Dimension (W x H x D):

307 x 100 x 397 mm (12 1/8 x 4 x 15 3/4 inches)

Tape speed:

Digital Betacam: 96.7 mm/s

MPEG IMX: 64.467 mm/s (525 mode),

53.776 mm/s (625 mode)

Betacam SX: 59.515 mm/s (525 mode),

59.575 mm/s (625 mode)

Betacam/Betacam SP: 118.6 mm/s,

101.5 mm/s (625 mode)

Playback time:

Digital Betacam: Max. 124 min. with

RCT-D124L

MPEG IMX: Max. 184 min. (525 mode)/220

min. (625 mode) with BCT-184MXL

Betacam SX: Max. 194 min. with

BCT194SXLA

Betacam/Betacam SP: Max. 90 min. (525

mode)/108 min. (625 mode) with

BCT-90MLA

Fast forward/rewind:

Digital Betacam: Approx. 5 min. with

BCT-D124L

MPEG IMX: Approx. 5 min. with

BCT-184MXL

Betacam SX: Approx. 5 min. with

BCT-184SXLA

Betacam/Betacam SP: Approx. 5 min. with

BCT-90MLA

Search speed range:

Digital Betacam: ±21 times normal

playback speed

MPEG IMX: ±32 times normal playback

speed

Betacam SX: ±35 times normal playback

speed

Betacam/Betacam SP: ±18 times (525

mode), ±20 times (625 mode) normal

playback speed

Servo lock time:

1.5 s or less (from standby on)

Load/unload time:

7 s or less

Input signal

Ext. sync:

BNC (x 1), Frame lock

Output signal

Analogue composite:

BNC (x 1), Pin Jack (x 1), 1.0 Vp-p, 75 Ω

S-video output:

Mini DIN 4-pin (x 1), Y: 1.0 Vp-p, C; 0.286

Vp-p burst, 75 Ω

SDI output:

BNC (x 2), SMPTE 259M, 270 Mb/s, 0.8

Vp-p, 75 Ω

i.LINK (DV) output:

6-pin (x 1), IEEE 1394

Time Code output:

BNC (x 1), 1.0 Vp-p, 75 Ω, unbalanced

Monitor output L/R:

Pin Jack (x 2): -10 dBu at 47 kΩ load, unbalanced, XLR (male x 2): +4 dBm, 600

 Ω load, low impedance, balanced

Headphone output:

JM-60 Stereo Phone Jack, -∞ to -12 dBu at

 8Ω load, unbalanced

Remote Control

RS-422A:

D-sub 9-pin (female) (x 1), Sony 9-pin

remote interface

RS-232C:

D-sub 9-pin (male) (x 1)

Wireless:

SIRCS

SONY

PFG IMX

MPEG IMX

MSW-970P19	94
MSW-M2000P/119	96
MSW-A2000P/119	98
MSW-200020	00
MSW-M2100P/120)2

MSW-970P MPEG IMX Camcorder

Features

•High Picture Quality using MPEG-2 4:2:2P@ML 50 Mb/s I-frame Compression • Power HAD EX CCD • Advanced Digital Signal Processing (ADSP) •14-bit A/D Conversion •Long Recording Time of up to 71 minutes on s-cassette •High-quality Digital Audio Recordings •User-friendly Menu Controls • Rugged and Ergonomic Design Compact, Lightweight and Low Power Consumption • Versatile Interfaces • Camera Remote Control • Dual Optical Filters Plus Electric Colour Correction •Assignable Functions •Battery Remaining Display on Viewfinder •Intelligent Light System •Slot-in Mechanism for Wireless Microphone Receiver • Turbo Gain • Memory Stick System for storage of Camcorder Setup Parameters •Adjustable Shoulder Pad •Film-like Images with Progressive Mode •Slow Shutter function •Picture Cache Recording •Interval Recording •TruEye Processor •Adaptive Highlight Control •Selectable Gamma Table Including Film-like Gamma • Triple Skin Tone Detail Control •Variable Black Gamma Range •Auto Tracing White Balance (ATW) • Multi-matrix Function • Electronic Soft Focus •Colour Temperature Control •UMID¹¹ Recording •Essence Mark Handling •Tele-File System



*1 UMID is recognized as a standard under SMPTE 330M.

Supplied Accessories

Operation manual (1) XLR connector cap (4) Viewfinder (1) Lens cap (1) Shoulder belt (1) Monaural microphone (1)

Optional Accessories

CBK-SD01 SDI Output Board MSDW-903 Picture Cache Board MSDW-904 Analogue Composite Input Board BKW-401 Viewfinder Rotation Bracket RM-B150 Remote Control Unit RM-B750 Remote Control Unit AC-DN2B AC Adaptor AC-DN10 AC Adaptor/Charger BP-GL65 Rechargeable Lithium-ion Battery Pack BP-GL95 Rechargeable Lithium-ion Battery Pack BP-L60S Rechargeable Lithium-ion Battery Pack BP-L80S Rechargeable Lithium-ion Battery Pack BC-L500 Li-ion Battery Charger BC-L70 Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger MSH "Memory Stick" IC Memory Media BCT-MX Series MPEG IMX Tapes VCT-14 Tripod Adaptor WRR-855B UHF Synthesized Diversity Tuner WRR-862B UHF Synthesized Dual Diversity Tuner ECM-674 Electret Condenser Microphone ECM-678 Electret Condenser Microphone WLL-RX55 Wireless Camera Receiver WLL-CA50 Wireless Camera Transmitter (CER) LC-DN7 Hard Carrying Case

MPFG IMX **Specifications** General Mass Approx. 3.7 kg (8 lb 3 oz) (11 lb 14 oz) Power requirements DC 12 V +5.0 V/-1.0 V Power consumption REC mode with VF) Operating temperature 0 to 40 °C (+32 °F to +104 °F) Storage temperature -20 to +60 °C (-4 °F to+140 °F) Humidity 25 to 85% (relative humidity) Continuous operating time (77 °F), REC mode Signal inputs Genlock video BNC type x1, 1.0 Vp-p, 75 Ω Time code input BNC type x1, 0.5 to 18 Vp-p, 10 k Ω Video outputs SDI BNC type x1, 0.8 Vp-p, 75 Ω (with the CBK-SD01) Audio input (CH-1/2) high impedance, balanced (0 dBu = 0.775 Vrms.)Mic input XLR-3-31 type x1, -60/-50 dBu Signal outputs Video output (Analogue composite) BNC type x1, 1.0 Vp-p, 75 Ω Video test output BNC type x1, 1.0 Vp-p, 75 Ω Time code output BNC type x1, 1.0 Vp-p, 75 Ω Earphone Minijack x2 Audio output (CH-1/CH-2) XLR-5-pin male (stereo) Others 12-pin VF niq-02 Remote 8-pin Liaht 2-pin, DC 12 V, max. 50 W DC input XLR-4-pin (male, DC 11 to 17V) DC output 4-pin (for wireless microphone receiver), DC 12 V (max. 0.1 A) Battery terminal 5-pin Wireless receiver input D-Sub 15-pin VTR section Recording Format Video

Fast forward time

Approx. 5 min. with BCT-60MX

```
5.4 kg (with VF, Mic, BCT-60MX, BP-GL95)
   Approx. 27 W (with DC 12V power supply,
   Approx. 180 min with BP-GL95 battery at 25 °C
   XLR-3-31 type x2, -60/-50/+4 dBu selectable,
   MPEG IMX (50/40/30 Mb/s)
  Audio
   4 ch/16 bits/48 kHz, 4 ch/20 bits/48 kHz
Tape speed
   64.467 mm/s
Playback/Recording time
   Max. 71 min. with BCT-60MX cassette
```

```
Rewind time
   Approx. 5 min. with BCT-60MX
Recommended tape
   Sony MPEG IMX S cassette
   (BCT6MX/12MX/22MX/32MX/60MX)
Digital video performance
Sampling frequency:
   Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz
Quantization:
   8 bits/sample
K-factor (2T pulse)
   Less than 1%
Y/R-Y/B-Y delay
   Less than 15 ns
Digital audio performance(1)
Sampling frequency:
   48 kHz (synchronised with video)
Quantization:
   20/16bits/ sample (selectable)
Frequency response:
   20 Hz to 20 kHz, +0.5 dB/-1.0 dB
Dynamic range:
   More than 85 dB (emphasis ON)
Distortion (at 1 kHz, emphasis ON, reference level)
   Less than 0.08%
Cross talk (at 1 kHz, reference level)
   Less than -70 dB
Wow & flutter
   Below measurable limit
Head room:
   20 dB (ex-factory setting)
Camera section
Pickup device
   3-chip 2/3-inch type Power HAD EX CCD
Aspect ratio
   16:9/4:3 switchable
Total picture elements
   1038 (H) x 1188 (V)
Optical system
   F1.4 prism (with quarts filter)
Built-in optical filters
   1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND,
   A: CROSS, B: 3200K, C: 4300K, D: 6300K
Lens mount
   2/3 inche type Sony bayonet mount
Scan format
   625/50i, 625/25p
Sensitivity (2000 lx, 89.9% reflectance)
   F11 (typical) (2000 lx, 89.9% reflectance)
Minimum illumination
   0.008 lx (F1.4 lens, +48 dB gain, with slow
   shutter mode at 16-frame accumulation)
Smear level
   -145 dB (typical)
Video S/N ratio
   63 dB (typical)
Vertical resolution
   480 TV lines (with EVS) and 530 TV lines
   (without EVS) at 625/50i mode
   575 TV lines at 625/25p mode
Shutter speed
   1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 s at
   625/50i mode 1/33, 1/50, 1/100, 1/125, 1/250,
   1/500, 1/1000, 1/2000 s at 625/25p mode
ECS
   50 to 6000 Hz at 625/50i mode, 25 to 6000 Hz
   at 625/25p mode
Slow shutter
   1/25, 1/12.5, 1/8.3, 1/6.3, 1/5, 1/4.2, 1/3.6, 1/3.1,
   1/1.6 s (1 to 8, 16 frames)
Gain selection
```

Warm-up time 25 Modulation depth at 5MHz 70% (16:9, typical) /55% (4:3, typical) Viewfinder CRT 2.0-inch type monochrome Controls BRIGHT, CONTRAST, PEAKING controls, TALLY, ZEBRA. DISPLAY switches Horizontal resolution 450 TV lines (16:9) Microphone Electret condenser microphone (Ultra-directional) (Detachable) * The specifications given for digial audio performance were measured via CA-701/702 Camcorder Adaptor or MSDW-902 SDI output board.

GAIN TURBO positions)

Registration

-3, 0, 3, 6, 9, 12, 18, 24, 30, 36, 42, 48 dB (for GAIN LOW, GAIN MID, GAIN HIGH and

195

MSW-M2000P/1 MPEG IMX Recorder

Features

- ·Superb picture quality and high sound quality of MPEG IMX format •8-bit 4:2:2 component digital recording •MPEG-2 4:2:2P@ML data compression at 50 Mb/s •SDTI-CP(*1) output allows interface with SDTI-CP equipped devices such as servers, non-linear editors •Data transfer at up to twice normal speed as standard ·Legacy playback of MPEG IMX, Digital Betacam, Betacam SX. Betacam SP and Betacam formats •IP-network interface to allow audio and video materials to be sent and received across a standard network (option: *2) •HD upconversion output capability (1080/59.94i, 1080/50i and 720/59.94p)(option: *3) •Frame-accurate insert/assemble editing •Pre-read editing capability • Eight channels of 16-bit digital audio or four channels of 24-bit digital audio •525/625 switchable operation • Variable speed control • High speed colour picture search • Dynamic Motion Control (DMC) • Long
- audio (16 bit-8ch/24 bit-4ch), and audio monitor (2-ch)
 •Easy setup using "Memory Stick" media •Shot mark
 handling •UMID handling •Built-in Tele-File reader/writer
 module to read and write information onto and from a
 cassette with an optional Tele-File label attached
 •Automatic scene change detect function •Optional
 remote control panel BKMW-101

SDTI-CP I/O, analogue audio (4-ch), AES/EBU digital

recording and playback time of up to 184 minutes on L-cassette, 60 minutes on S-cassette •Compact 4U-height design •Versatile interfaces; analogue

composite I/O, analogue component I/O, SDI I/O,

(*1) Serial Data Transport Interface-Content Packages (*2) Requires optional BKMW-E3000 Network Interface Board (*3) Requires optional BKMW-104 HD Unconverter Board.

Supplied Accessories

PSW 4x16 rack mount screws (4) Operation manual (1) Installation manual (1)

Optional Accessories

BKMW-101 Remote Control Panel
BKMW-102 Remote Control Unit
BKMW-103 Control Panel Extention Kit
BKMW-104 HD Up-converter Board
BKMW-E3000 Network Interface Board
(option for e-VTR)
RCC-G Cables 9-pin/9-pin Cable
RMM-131 Rack Mount Kit
MLB-1M-100 Tele-File Memory Label
BCT-MX tapes BCT-MX Series MPEG IMX
Tapes
MSA-A *Memory Stick* IC Memory Media





The MSW-M2000P/1 can be ordered with the BKMW-E3000 Network Interface Board installed. The model name is MSW-M2000P/E.

MPFG IMX

Specifications

Power requirements:

General

AC 100 to 240 V, 50/60 Hz

Power consumption:

2A (200 W) / AC 240 V

Operating temperature:

+5 to +40 °C (+41 to +104 °F)

Storage temperature: -20 to +60 °C (-4 to +140 °F)

Humidity:

20 to 90% (relative humidity)

Mass: 23.0 kg (50 lb 11 oz)

Dimensions:

427 (W) x 174 (H) x 544 (D) mm (16 7 /8 x 6 7 /8 x 21 1 /2 inches)

Tape speed

MPFG IMX

64.467 (525)/53.776 (625) mm/s

Digital Betacam:

96.7 mm/s

Betacam SX:

59.515 (525)/59.575 (625) mm/s

Betacam/Betacam SP:

118.6 (525)/101.51 (625) mm/s

Recording/playback time:

Max. 184 (525)/220 (625) min with

BCT-184MXL cassette

Fast forward/rewind time:

Approx. 3.5 min with BCT-184MXL cassette

Search speed range

MPEG IMX:

±78 times normal playback speed

Digital Betacam:

±50 times normal playback speed

Betacam SX:

±78 times normal playback speed

Betacam/Betacam SP: ±35 (525)/±42 (625) times normal

playback speed

Servo lock time:

0.5 (525)/0.7 (625) s or less (from standby

Load/unload time:

6 s or less

Input/output signals

Analogue composite input:

BNC (2, including one loop through

output), 1.0 Vp-p, 75 Ω, sync negative

Analogue composite output:

BNC (3, including one character out),

1.0 Vp-p, 75 Ω, sync negative

Analogue component input:

BNC (x 3, for 1 set, Y/R-Y/B-Y), Y: 1.0 Vp-p, 75 Ω, sync negative, R-Y/B-Y: 0.7 Vp-p,

75 Ω

Analogue component output:

BNC (3, for 1 set, Y/R-Y/B-Y), Y: 1.0 Vp-p,

75 Ω, sync negative, R-Y/B-Y: 0.7 Vp-p,

SDI input

BNC (2, including one active through out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

BNC (3, including one character out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

SDTI-CP input:

BNC (1), SMPTE 326M (SDTI-CP)

SDTI-CP output:

BNC (2), SMPTE 326M (SDTI-CP)

HD-SDI output (requires optional BKMW-104 board).

BNC (3)

Analogue audio input:

XLR (4) (4CH: channel selectable)

Analogue audio output:

XLR (4) (4CH: channel selectable) Cue audio output (only Digital Betacam

playback): XIR (1)

Digital audio input (CH 1/2, 3/4, 5/6, 7/8),

BNC (4), default 48 kHz (32 to 48 kHz with sample rate converter), complies with AES-3id-1995

Digital audio output (CH 1/2, 3/4, 5/6, 7/8), AFS/FRII:

BNC (4), 48 kHz fixed, Complies with AFS-3id-1995

Remote control

Remote (RS-422A):

D-sub 9-pin (2), Sony 9-pin remote

RS-232C (ISR*):

D-sub 9-pin (1), RS-232C interface

Parallel remote

D-sub 50-pin (1)

Video control (1):

D-sub 15-pin (1)

Control panel:

Circular connector 10-pin

Time code input:

XLR (1)

Time code output:

XLR (1)

Ethernet I/F (requires optional BKMW-E3000

board):

RJ-45 connector (1), 1000Base-T/100Base-TX/10Base-T

Memory card insertion slot:

Memory Stick (1), PCMCIA (1)

Monitor output L/R:

XLR (2) (channel selectable)

Phones

JM-60 Stereo phone jack Processor adjustment range

Video level:

±3 dB/-∞ to 3 dB selectable

Chroma level:

±3 dB/-∞ to 3 dB selectable

Set up/black level:

+30 IRF/+210 mV

Chroma phase/hue: ±30°

System sync phase:

+15 us System SC phase:

±200 ns

Y/C delay:

±100 ns (Betacam/Betacam SP

playback only)

Composite input level:

±3 dB

Digital video performance

Sampling frequency:

Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz

Quantization:

MPEG IMX/Betacam SX: 8 bits/sample

Error correction: Reed-Solomon code

Digital input to analogue component output:

D/A quantization: 10 bits/sample Bandwidth: 0 to 5.75 MHz ±0.5 dB

S/N ratio: 56 dB or more K-factor (2T pulse): 1% or less

Analogue component input to analogue component output (MPEG IMX record/playback):

A/D and D/A quantization: 10 bits/sample Bandwidth: Y: 0 to 5.75 MHz +0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB S/N ratio: 56 dB or more K-factor (2T pulse): 1% or less LF non-linearity: 3.0% or

Analogue composite input to analogue composite output (MPEG IMX record/playback):

A/D and D/A quantization: 10 bits/sample Bandwidth: 0 to 5.75 MHz +0.5/-2.0 dB S/N ratio: 53 dB or more Differential gain: 2% or less Differential phase: 2° or less Y/C delay: 20 ns or less K-factor (2T pulse): 1% or less

Digital audio performance

Sampling frequency:

48 kHz (synchronized with video)

Quantization:

MPEG IMX: 16 or 24 bits/sample

(selectable)

Betacam SX: 16 bits/sample Analogue input to analogue output

(MPEG IMX record/playback): A/D and D/A quantization: 24 bits/sample Frequency response (0 dB at 1kHz): 20 Hz

to 20 kHz +0.5/-1.0 dB Dynamic range (at 1 kHz, emphasis ON):

More than 90 dB (16 bits mode), More than 95 dB (24bits mode)

Distortion (at 1 kHz, emphasis ON, reference level): Less than 0.05%

Cross talk (at 1 kHz, between any two

channels): Less than -80 dB Wow and flutter: Below measurable level

Head room:

T1=50 μs, T2=15 μs

20 dB (18 dB selectable) Emphasis (ON/OFF selectable in REC mode):

MSW-A2000P/1 MPEG IMX Recorder

Features

- ·Superb picture quality and high sound quality of MPEG IMX format •8-bit 4:2:2 component digital recording •MPEG-2 4:2:2P@ML data compression at 50 Mb/s •SDTI-CP(*1) output allows interface with SDTI-CP equipped devices such as servers, non-linear editors •Data transfer at up to twice normal speed as standard ·Legacy playback capability of MPEG IMX, Betacam SX, Betacam SP and Betacam formats •IP-network interface to allow audio and video materials to be sent and received across a standard network (option: *2) •HD upconversion output capability (1080/59.94i, 1080/50i and 720/59.94p) (option: *3) • Frame-accurate insert/assemble editing .Pre-read editing capability.Eight channels of 16-bit digital audio or four channels of 24-bit digital audio •525/625 switchable operation •Variable speed control •High speed colour picture search •Dynamic Motion Control (DMC) •Long recording and playback time of up to 184 minutes on L-cassette, 60 minutes on S-cassette •Compact 4U-height design · Versatile interfaces; analogue composite I/O, analogue component I/O, SDI I/O, SDTI-CP I/O, analogue audio (4-ch), AES/EBU digital audio (16 bit-8ch/24 bit-4ch), and audio monitor (2-ch) • Easy setup using "Memory Stick" media •Shot mark handling •UMID handling •Built-in Tele-File reader/writer module to read and write
- (*1) Serial Data Transport Interface-Content Packages (*2) Requires optional BKMW-E3000 Network Interface Board (*3) Requires optional BKMW-104 HD Upconverter Board.

information onto and from a cassette with an optional Tele-File label attached •Automatic scene change detect function •Optional remote control panel BKMW-101

Supplied Accessories

PSW 4x16 rack mount screws (4) Operation manual (1) Installation manual (1)

Optional Accessories

BKMW-101 Remote Control Panel
BKMW-102 Remote Control Unit
BKMW-103 Control Panel Extention Kit
BKMW-104 HD Up-converter Board
BKMW-E3000 Network Interface Board
(option for e-VTR)
RCC-G Cables 9-pin/9-pin Cable
RMM-131 Rack Mount Kit
MLB-1M-100 Tele-File Memory Label
BCT-MX tapes BCT-MX Series MPEG IMX
Tapes
MSA-A *Memory Stick* IC Memory Media





MPEG IMX

Specifications General

Power requirements:

AC 100 to 240 V, 50/60 Hz

Power consumption:

2A (200 W) / AC 240 V

Operating temperature:

+5 to +40 °C (+41 to +104 ° F)

Storage temperature:

-20 to +60 °C (-4 to +140 °F)

Humidity:

20 to 90% (relative humidity)

Mass:

23.0 kg (50 lb 11 oz)

Dimensions:

427 (W) x 174 (H) x 544 (D) mm (16 7 /8 x 6 7 /8 x 21 1 /2 inches)

Tape speed

MPFG IMX

64.467 (525)/53.776 (625) mm/s

Betacam SX: 59.515 (525)/59.575 (625) mm/s

Betacam/Betacam SP:

118.6 (525)/101.51 (625) mm/s

Recording/playback time:

Max. 184 (525)/220 (625) min with

BCT-184MXL cassette

Fast forward/rewind time:

Approx. 3.5 min with BCT-184MXL cassette

Search speed range

MPEG IMX: ±78 times normal playback speed

Betacam SX:

±78 times normal playback speed

Betacam/Betacam SP ±35 (525)/±42 (625) times normal

playback speed Servo lock time:

0.5 (525)/0.7 (625) s or less

(from standby on)

Load/unload time:

6 s or less

Input/output signals

Analogue composite input:

BNC (2, including one loop through output), 1.0 Vp-p, 75 Ω, sync negative

Analogue composite output:

BNC (3, including one character out),

1.0 Vp-p, 75 Ω , sync negative

Analogue component input:

BNC (3, for 1 set, Y/R-Y/B-Y), Y: 1.0 Vp-p, 75 Ω, sync negative, R-Y/B-Y: 0.7 Vp-p,

75 O

Analogue component output:

BNC (3, for 1 set, Y/R-Y/B-Y), Y: 1.0 Vp-p, 75 Ω, sync negative, R-Y/B-Y: 0.7 Vp-p, 75 Ω

SDI input:

BNC (2, including one active through out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

BNC (3, including one character out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

SDTI-CP input:

BNC (1), SMPTE 326M (SDTI-CP)

SDTI-CP output:

BNC (2), SMPTE 326M (SDTI-CP)

HD-SDI output (requires optional BKMW-104 board):

BNC (3)

Analogue audio input:

XLR (4) (4CH: channel selectable)

Analogue audio output:

XLR (4) (4CH: channel selectable)

Digital audio input (CH 1/2, 3/4, 5/6, 7/8),

BNC (4), default 48 kHz (32 to 48 kHz with sample rate converter), complies with AES-3id-1995

Digital audio output (CH 1/2, 3/4, 5/6, 7/8), AFS/FRII:

BNC (4), 48 kHz fixed, Complies with AFS-3id-1995

Remote control

Remote (RS-422A):

D-sub 9-pin (2), Sony 9-pin remote

RS-232C (ISR*):

D-sub 9-pin (1), RS-232C interface

Parallel remote:

D-sub 50-pin (1)

Video control (1):

D-sub 15-pin (1)

Control panel: Circular connector 10-pin

Time code input:

XLR (1)

Time code output:

XIR (1)

Ethernet I/F (requires optional BKMW-E3000 board):

R.J-45 (1).

1000Base-T/100Base-TX/10Base-T

Memory card insertion slot:

Memory Stick (1), PCMCIA (1)

Monitor output L/R:

XLR (2) (channel selectable)

Phones:

JM-60 Stereo phone jack

Processor adjustment range

Video level:

±3 dB/-∞ to 3 dB selectable

Chroma level:

±3 dB/-∞ to 3 dB selectable

Set up/black level:

+30 IRF/+210 mV

Chroma phase/hue:

±30°

System sync phase: ±15 µs

System SC phase:

±200 ns Y/C delay:

±100 ns (Betacam/Betacam SP playback

Composite input level:

±3 dB

Digital video performance

Sampling frequency:

Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz

Quantization:

MPEG IMX/Betacam SX: 8 bits/sample

Error correction:

Reed-Solomon code

Digital input to analogue component output:

D/A quantization: 10 bits/sample Bandwidth: 0 to 5.75 MHz ±0.5 dB

S/N ratio: 56 dB or more K-factor (2T pulse): 1% or less

Analogue component input to analogue component output (MPEG IMX

record/playback):

A/D and D/A quantization: 10 bits/sample Bandwidth: Y: 0 to 5.75 MHz +0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB S/N ratio: 56 dB or more K-factor (2T pulse): 1% or less LF non-linearity: 3.0% or less

Analogue composite input to analogue composite output (MPEG IMX record/playback):

A/D and D/A quantization: 10 bits/sample Bandwidth: 0 to 5.75 MHz +0.5/-2.0 dB S/N ratio: 53 dB or more Differential gain: 2% or less Differential phase: 2° or less Y/C delay: 20 ns or less K-factor (2T pulse): 1% or less

Digital audio performance

Sampling frequency:

48 kHz (synchronized with video) Quantization:

MPEG IMX: 16 or 24 bits/sample (selectable)

Betacam SX: 16 bits/sample

Analogue input to analogue output (MPEG IMX record/playback):

A/D and D/A quantization: 24 bits/sample Frequency response (0 dB at 1kHz): 20 Hz to 20 kHz +0.5/-1.0 dB

Dynamic range (at 1 kHz, emphasis ON): More than 90 dB (16 bits mode), More than

95 dB (24bits mode) Distortion (at 1 kHz, emphasis ON, reference level): Less than 0.05% Cross talk (at 1 kHz, between any two channels): Less than -80 dB

Wow and flutter: Below measurable level Head room:

20 dB (18 dB selectable)

Emphasis (ON/OFF selectable in REC mode):

T1=50 μs, T2=15 μs

MSW-2000 MPEG IMX Recorder

Features

·Superb picture quality and high sound quality of MPEG IMX format •8-bit 4:2:2 component digital recording •MPEG-2 4:2:2P@ML compression at 50 Mb/s •SDTI-CP (Serial Data Transport Interface-Content Packages) output allows interface with other SDTI-CP equipped devices such as servers, non-linear editors . Data transfer at up to twice normal speed (option: *1) •Legacy playback of MPEG IMX and Betacam SX formats •IP-network interface to allow audio and video materials to be sent and received across a standard network (option: *2) •HD upcoversion output capability (1080/59.94i, 1080/50i and 720/59.94p)(option: *3) •Frame-accurate insert/assemble editing •Pre-read editing capability • Eight channels of 16-bit digital audio or four channels of 24-bit digital audio •525/625 switchable operation • Variable speed control • High speed colour picture search • Dynamic Motion Control (DMC) • Long recording and playback time of up to 184 minutes on L-cassette, 60 minutes on S-cassette • Compact 4U-height design •Versatile interfaces; analogue composite I/O, analogue component I/O, SDI I/O, SDTI-CP I/O, analog audio (4-ch), AES/EBU digital audio (16 bit-8ch/24 bit-4ch), and audio monitor (2-ch) •UMID handling •Shot mark handling •Built-in Tele-File reader/writer module to read and write information onto and from a cassette with an optional Tele-File label attached •Optional remote control panel BKMW-101

(*1) requires a DPR-208 board (service part) (*2) requires optional BKMW-E3000 Network Interface Board (*3) requires optional BKMW-104 HD Upconverter Board.

Supplied Accessories

PSW 4x16 rack mount screws (4) Operation manual (1) Installation manual (1)

Optional Accessories

BKMW-101 Remote Control Panel
BKMW-102 Remote Control Unit
BKMW-103 Control Panel Extention Kit
BKMW-104 HD Up-converter Board
BKMW-E3000 Network Interface Board
(option for e-VTR)
RCC-G Cables 9-pin/9-pin Cable
RMM-131 Rack Mount Kit
MLB-1M-100 Tele-File Memory Label
BCT-MX tapes BCT-MX Series MPEG IMX Tapes





MPEG IMX

Specifications General

Power requirements:

AC 100 to 240 V, 50/60 Hz

Power consumption:

2A (200 W) / AC 240 V

Operating temperature:

Operating temperature:

+5 to +40 °C (+41 to +104 ° F)

Storage temperature:

-20 to +60 °C (-4 to +140 °F)

Humidity:

20 to 90% (relative humidity)

Mass:

23.0 kg (50 lb 11 oz)

Dimensions:

427 (W) x 174 (H) x 544 (D) mm

(16 7 /8 x 6 7 /8 x 21 1 /2 inches)

Tape speed

MPEG IMX

64.467 (525)/53.776 (625) mm/s Betacam SX:

59.515 (525)/59.575 (625) mm/s

Recording/playback time:

Max. 184 (525)/220 (625) min with

BCT-184MXL cassette

Fast forward/rewind time:
Approx. 3.5 min with BCT-184MXL cassette

Search speed range

MPFG IMX:

±78 times normal playback speed

Betacam SX:

±78 times normal playback speed

Servo lock time:

0.5 (525)/0.7 (625) s or less (from standby on)

Load/unload time:

6 s or less

Input/output signals

Analogue composite input:

BNC (2, including one loop through output), 1.0 Vp-p, 75 Ω , sync negative

Analogue composite output:

BNC (3, including one character out),

1.0 Vp-p, 75 Ω, sync negative

Analogue component input:

BNC (x 3, for 1 set, Y/R-Y/B-Y),Y: 1.0 Vp-p, 75 Ω , sync negative, R-Y/B-Y: 0.7 Vp-p, 75 Ω

Analogue component output:

BNC (3, for 1 set, Y/R-Y/B-Y),Y: 1.0 Vp-p, 75 Ω , sync negative, R-Y/B-Y: 0.7 Vp-p, 75 Ω

SDI input:

BNC (2, including one active through out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

SDI output:

BNC (3, including one character out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

SDTI-CP input:

BNC (1), SMPTE 326M (SDTI-CP)

SDTI-CP output:

BNC (2), SMPTE 326M (SDTI-CP)

HD-SDI output (requires optional BKMW-104 board):

BNC (x3)

Analogue audio input:

XLR (4) (4CH: channel selectable)

Analogue audio output:

XLR (4) (4CH: channel selectable)

Digital audio input (CH 1/2, 3/4, 5/6, 7/8), AES/EBU:

BNC (4), default 48 kHz (32 to 48 kHz with

sample rate converter), complies with AES-3id-1995

Digital audio output (CH 1/2, 3/4, 5/6, 7/8),

BNC (4), 48 kHz fixed, Complies with AFS-3id-1995

Remote control

Remote (RS-422A):

D-sub 9-pin (2), Sony 9-pin remote interface

RS-232C (ISR*):

D-sub 9-pin (1), RS-232C interface

Parallel remote:

D-sub 50-pin (1)

Video control (1):

D-sub 15-pin (1)

Control panel:

Circular connector 10-pin

Time code input:

XLR (1)

Time code output:

XLR (1)

Ethernet I/F (requires optional BKMW-E3000 board):

RJ-45 (1),

1000Base-T/100Base-TX/10Base-T

Memory card insertion slot:

Memory Stick (1), PCMCIA (1)

Monitor output L/R:

XLR (2) (channel selectable)

Phones:

JM-60 Stereo phone jack

Processor adjustment range

Video level:

±3 dB/-∞ to 3 dB selectable

Chroma level:

+3 dB/-∞ to 3 dB selectable

Set up/black level:

±30 IRE/±210 mV

Chroma phase/hue:

±30°

System sync phase:

±15 µs

System SC phase:

stem SC ±200 ns

Composite input level:

±3 dB

Digital video performance

Sampling frequency:

Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz

Ouantization:

MPEG IMX/Betacam SX: 8 bits/sample

Error correction:

Reed-Solomon code

Digital input to analogue component output:

D/A quantization: 10 bits/sample
Bandwidth: 0 to 5.75 MHz ±0.5 dB
S/N ratio: 56 dB or more K-factor (2T

pulse): 1% or less
Analogue component input to analogue component output (MPEG IMX

record/playback):

A/D and D/A quantization: 10 bits/sample Bandwidth: Y: 0 to 5.75 MHz +0.5/-2.0 dB, R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB S/N ratio: 56 dB or more K-factor (2T pulse): 1% or less LF non-linearity: 3.0% or less

Analogue composite input to analogue composite output (MPEG IMX record/playback):

A/D and D/A quantization: 10 bits/sample Bandwidth: 0 to 5.75 MHz +0.5/-2.0 dB S/N ratio: 53 dB or more Differential gain: 2% or less Differential phase: 2° or less Y/C delay: 20 ns or less K-factor (2T pulse): 1% or less

Digital audio performance

Sampling frequency:

48 kHz (synchronized with video)

Quantization:

MPEG IMX: 16 or 24 bits/sample (selectable)

Betacam SX: 16 bits/sample

Analogue input to analogue output (MPEG IMX record/playback):

A/D and D/A quantization: 24 bits/sample Frequency response (0 dB at 1kHz): 20 Hz to 20 kHz \pm 0.5/-1.0 dB

to 20 kHz +0.5/-1.0 dB Dynamic range (at 1 kHz, emphasis ON): More than 90 dB (16 bits mode), More than

95 dB (24bits mode) Distortion (at 1 kHz, emphasis ON, reference level): Less than 0.05%

Cross talk (at 1 kHz, between any two channels): Less than -80 dB

Wow and flutter: Below measurable level Head room:

20 dB (18 dB selectable)

Emphasis (ON/OFF selectable in REC mode):

T1=50 μs, T2=15 μs

MSW-M2100P/1 MPEG IMX Player

Features

·Superb picture quality and high sound quality of MPEG IMX format •Legacy playback capability: MPEG IMX. Digital Betacam, Betacam SX, Betacam SP and Betacam formats •SDTI-CP(*1) output to allow interface with SDTI-CP equipped devices such as servers, non-linear editors •Data transfer at up to twice normal speed as standard •IP-network interface to allow audio and video materials to be sent across a standard network (option: *2) •HD upconversion output capability (1080/59.94i, 1080/50i and 720/59.94p)(option: *3) • Versatile interfaces; analogue composite output, analog component output, SDI output, SDTI-CP output, analog audio (4-ch), AES/EBU digital audio (16 bit-8ch/24 bit-4ch), audio monitor (2-ch), RS-422A (Sony 9-pin), RS-232C, and parallel 50-pin • Eight channels of 16-bit digital audio or four channels of 24-bit digital audio •525/625 switchable operation •Variable speed control •High speed picture search • Dynamic Motion Control (DMC) • Long playback time of up to 184 minutes on L-cassette, 60 minutes on S-cassette •Compact 4U-height design •Easy setup using "Memory Stick" media • Shot Mark handling • Built-in Tele-File reader/writer to read and write information onto and from a cassette with an optional Tele-File label attached •Automatic scene change detect fuction Optional remote panel BKMW-101

(*1) Serial Data Transport Interface-Content Packages (*2) Requires optional BKMW-E3000 Network Interface Board (*3) Requires optional BKMW-104 HD Upconverter Board.

Supplied Accessories

PSW 4x16 rack mount screws (4) Operation manual (1) Installation manual (1)

Optional Accessories

BKMW-101 Remote Control Panel
BKMW-102 Remote Control Unit
BKMW-103 Control Panel Extention Kit
BKMW-104 HD Up-converter Board
BKMW-E3000 Network Interface Board
(option for e-VTR)
RCC-G Cables 9-pin/9-pin Cable
RMM-131 Rack Mount Kit
MLB-1M-100 Tele-File Memory Label
BCT-MX tapes BCT-MX Series MPEG IMX
Tapes
MSA-A *Memory Stick* IC Memory Media





The MSW-M2100P/1 can be ordered with the BKMW-E3000 Network Interface Board installed. The model name is MSW-M2100P/E.

MPEG IMX

Specifications

Power requirements:

General

AC 100 to 240 V, 50/60 Hz

Power consumption:

2A (200 W) / AC 240 V

Operating temperature:

+5 to +40 °C (+41 to +104 °F)

Storage temperature:

-20 to +60 °C (-4 to +140 °F)

Humidity:

20 to 90% (relative humidity)

Mass: 23.0 kg (50 lb 11 oz)

Dimensions:

427 (W) x 174 (H) x 544 (D) mm (16 7/8 x 6 7/8 x 21 1/2 inches)

Tape speed

MPFG IMX

64.467 (525)/53.776 (625) mm/s

Digital Betacam:

96.7 mm/s

Betacam SX:

59.515 (525)/59.575 (625) mm/s

Betacam/Betacam SP:

118.6 (525)/101.51 (625) mm/s

Playback time:

Max. 184 (525)/220 (625) min with

BCT-184MXL cassette

Fast forward/rewind time:

Approx. 3.5 min with BCT-184MXL cassette

Search speed range

MPEG IMX:

±78 times normal playback speed

Digital Betacam:

±50 times normal playback speed

Betacam SX:

±78 times normal playback speed

Betacam/Betacam SP:

±35 (525)/±42 (625) times normal

playback speed Servo lock time:

0.5 (525)/0.7 (625) s or less

(from standby on)

Load/unload time:

6 s or less

Output signals

Analogue composite output:

BNC (3, including one character out),

1.0 Vp-p, 75 Ω , sync negative

Analogue component output:

BNC (3, for 1 set, Y/R-Y/B-Y), Y: 1.0 Vp-p,

75 Ω, sync negative, R-Y/B-Y: 0.7 Vp-p,

SDI output:

BNC (3, including one character out), SMPTE 259M (ITU-R BT.656-3), 270 Mb/s

SDTI-CP output:

BNC (2), SMPTE 326M (SDTI-CP)

HD-SDI output (requires optional BKMW-104 board)

BNC (3)

Analogue audio input-

XLR (4) (4CH: channel selectable)

Analogue audio output:

XLR (4) (4CH: channel selectable)

Cue audio output:

XLR (1, only Digital Betacam playback) Digital audio output (CH 1/2, 3/4, 5/6, 7/8), AES/EBU:

BNC (4), 48 kHz fixed, Complies with AES-3id-1995

Remote control

Remote (RS-422A):

D-sub 9-pin (2), Sony 9-pin remote

interface

RS-232C (ISR*):

D-sub 9-pin (1), RS-232C interface

Parallel remote:

D-sub 50-pin (1)

Video control (1):

D-sub 15-pin (1)

Control panel:

Circular connector 10-pin

Time code input:

XLR (1)

Time code output:

XLR (1)

Ethernet I/F (requires optional BKMW-E3000 hoard):

RJ-45 (1),

1000Base-T/100Base-TX/10Base-T

Memory card insertion slot:

Memory Stick (1), PCMCIA (1)

Monitor output L/R:

XLR (2) (channel selectable)

Phones:

JM-60 Stereo phone jack

Processor adjustment range

Video level:

±3 dB/-∞ to 3 dB selectable∞

Chroma level:

±3 dB/-∞ to 3 dB selectable

Set up/black level:

±30 IRE/±210 mV

Chroma phase/hue:

+30°

System sync phase:

±15 µs

System SC phase:

+200 ns

Y/C delay:

±100 ns (Betacam/Betacam SP playback only)

Digital video performance

Sampling frequency:

Y: 13.5 MHz, R-Y/B-Y: 6.75 MHz

Quantization:

MPEG IMX/BETACAM SX: 8 bits/sample,

Digital BETACAM: 10 bits/sample

Error correction:

Reed-Solomon code Digital input to analogue component output:

D/A quantization: 10 bits/sample Bandwidth: 0 to 5.75 MHz ±0.5 dB

S/N ratio: 56 dB or more K-factor

(2T pulse): 1% or less

Analogue component input to analogue component output (MPEG IMX

record/playback):

A/D and D/A quantization: 10 bits/sample Bandwidth: Y: 0 to 5.75 MHz +0.5/-2.0 dB,

R-Y/B-Y: 0 to 2.75 MHz +0.5/-2.0 dB S/N ratio: 56 dB or more K-factor (2T

pulse): 1% or less LF non-linearity: 3.0% or

Analogue composite input to analogue composite output (MPEG IMX

record/playback):

A/D and D/A quantization: 10 bits/sample Bandwidth: 0 to 5.75 MHz +0.5/-2.0 dB S/N ratio: 53 dB or more Differential gain: 2% or less Differential phase: 2° or less Y/C delay: 20 ns or less K-factor (2T pulse): 1% or less

Digital audio performance

Sampling frequency:

48 kHz (synchronized with video)

Quantization:

MPEG IMX: 16 or 24 bits/sample

(selectable)

Betacam SX: 16 bits/sample Digital Betacam: 20 bits/sample

Analogue composite output (Digital Betacam playback):

A/D and D/A quantization: 24 bits/sample Frequency response (0 dB at 1kHz): 20 Hz to 20 kHz +0.5/-1.0 dB

Dynamic range (at 1 kHz, emphasis ON): More than 95 dB

Distortion (at 1 kHz, emphasis ON,

reference level): Less than 0.05% Cross talk (at 1 kHz, between any two channels): Less than -80 dB

Wow and flutter: Below measurable level Head room:

20 dB (18 dB selectable)

SONY

Camcorder Accessories & Peripherals

AC-DN102	
AC-DN2B2	06
AC-SQ950B2	07
AC-VQ1050B2	07
BC-M1502	08
BC-L702	09
BC-L500	
BP-GL65	
BP-GL95	12
BP-L80S	10
CBK-MB012	
CBK-FC012	
CBK-SC012	
CBK-SD012	14
CBK-NC012	
HKDW-702/12	15
HKDW-703/12	15
HKDW-7052	
HKDW-902R2	16
HKDW-905R	16
HVL-LBP2	
HVL-20DW2	17
HVL-F10	17
HVL-FH11002	
LC-777	
LC-DN7 2	
LCH-FXA2	
LCH-TRV9502	18
LCH-VX2000A2	
LCR-FXA2	18
LCS-VCB2	19
LCS-G1RP 2	
LO-32BMT	
MSDW-903	10
MSDW-904	10
NP-F570	
NP-F770	
2NP-F970/B	20
2NP-QM91D/B2	
NP-QM91D2	
RM-1BP2	21
RM-B1502	21
RM-B7502	22
RM-B750	22
VCL-0737W2	23
VCL-HG0862K2	23
VCL-HG0872	
VCT-14	
VOT 100	23
VCT-1BP	24
VCT-PG11RMB2	
VCT-FXA	
VF-72CPK	24

AC-DN10 AC Adaptor/Charger

Features

•Compact and lightweight AC adaptor/charger •Maximum 100 W DC power supply •V-mount mechanism for direct attachment to compatible camcorders •XLR-4-pin output to power other equipment •Charging capability of Sony V-mount lithium-ion batteries (BP-GL95/GL65/L60S/L80S) •Quick charging - A BP-GL95 can be fully charged within 145 minutes •Can charge batteries while supplying AC power to other equipment

Applicable Models

DSR-250P DVCAM Camcorder DSR-400PK DVCAM Camcorder DSR-400PL DVCAM Camcorder DSR-450WSPL DVCAM Camcorder DVW-970P Digital Betacam Camcorder HDW-730S HDCAM Camcorder HDW-750P HDCAM Camcorder HDW-790P HDCAM Camcorder HDW-F900R HDCAM Camcorder MSW-970P MPEG IMX Camcorder PDW-510 XDCAM Camcorder PDW-510P XDCAM Camcorder PDW-530 XDCAM Camcorder PDW-530P XDCAM Camcorder WLL-CA50 Wireless Camera Transmitter WLL-CA55 Wireless Camera Transmitter PDW-F330 XDCAM HD Camcorder PDW-F350 XDCAM HD Camcorder

Supplied Accessories

Operation manual (1) AC power cord (1)

Specifications

Power requirements:
AC 100 V to 240 V
DC output:
16.7 V, 6 A
Operating temperature:
0 to 40 °C (32 to 104 °F)
Mass:
800 g (1 lb 12 oz)
Dimensions (W x H x D):
101 x 160 x 37 mm
(4 x 6 3/8 x 1 1/2 inches)



Charging time BP-GL95: 145 minutes BP-GL65: 155 minutes BP-L60S 155 minutes BP-L80S 170 minutes

Lead-free solder is used for soldering.

Halogenated flame retardants are not used in the cabinets and the printed wiring

boards.

AC-DN2B AC Adaptor

Features

•Compact and lightweight AC adaptor/charger •Maximum 150 W DC power supply •V-mount mechanism for direct attachment to compatible camcorders •XLR-4-pin output to power other equipment •Up to 85% charging capability of Sony V-mount lithium-ion batteries (BP-GL95/GL65/L60S/L80S)

Applicable Models

DSR-250P/1 DVCAM Camcorder DSR-400PK DVCAM Camcorder DSR-400PL DVCAM Camcorder DSR-450WSPL DVCAM Camcorder DVW-970P Digital Betacam Camcorder HDW-730S HDCAM Camcorder HDW-750P HDCAM Camcorder HDW-790P HDCAM Camcorder HDW-F900R HDCAM Camcorder MSW-970P MPEG IMX Camcorder PDW-510 XDCAM Camcorder PDW-510P XDCAM Camcorder PDW-530 XDCAM Camcorder PDW-530P XDCAM Camcorder SRPC-1 HD Video Processor SRW-1 HDCAM-SR Portable VTR WLL-CA50 Wireless Camera Transmitter WLL-CA55 Wireless Camera Transmitter

Supplied Accessories

DC power cord (1)
Operation manual (1)

Optional Accessories

CCDD-X2 4-pin/4-pin DC Power Cord for Portable Video Equipment BKW-L601 Battery Adaptor

Specifications

Power requirements: AC 100 to 240 V Rated power output (DC): 150 W Voltage output (DC): 16.7 V Current output (DC):

9 A (on regulation)

Mass:

950 g (2 lb 2 oz) Dimensions:

101(W) x 169(H) x 70(D) mm (4 x 6 3/4 x 2 7/8 inches)

Charging time:

BP-GL95

155 minutes (to about 85% capacity)

100 minutes (to about 85% capacity) BP-L60S

100 minutes (to about 85% capacity)

AC-SQ950B AC Adaptor/Charger

Applicable Models

DSR-PDX10P HVR-A1E

Specifications

Dimensions:

W 123 x H 48 x D 135 mm (4 7/8 x 1 15/16

x 5 3/8 inches)

Mass:

390 g (13.8 oz)

AC power requirement:

AC 100 V to 240 V, 50 Hz/60 Hz

DC power requirement:

12/24 V

Power consumption:

35 W

Operating Temperature:

0°C to 40°C (32°F to 104°F)

Storage Temperature:

-20°C to 60°C (-4°F to +140°F)



AC-VQ1050B AC Adaptor/Charger

Features

•Quick Charge •Intelligent Display •DC Charge

Applicable Models

DSR-PD170P HVR-Z1E HVR-M10E

Specifications

Dimensions:

W 123 x H 53 x D 135 mm

(4 7/8 x 2 1/8 x 5 3/8 inches)

Mass:

390 g (13.8 oz)

AC power requirement:

AC 100 V to 240 V

Frequency:

50 Hz/60 Hz

Power consumption:

35 W

Operating Temperature:

0°C to 40°C (32°F to 104°F)

Storage Temperature:

-20°C to 60°C (-4°F to +140°F)



BC-M150 Ni-MH & Li-ion Battery Charger

Features

•Battery charger for BP-L/IL/GL Series lithium-ion battery packs and BP-M100/M50 nickel metal hydride battery packs •Up to four battery packs can be charged simultaneouly •LED indicators to indicate charging status, and discharge ('refresh') status of a nickel metal hydride battery •LCD screen to indicate information of connected batteries such as battery reserve, charge time for full charge, charge/discharge cycles (*) •DC power output to an external device via the XLR 4-pin connector

(*1) The BC-M150 indicates the battery reserve only when charging the BP-IL75/GL65/GL95/M50/M100 batteries.

Supplied Accessories

AC power cord (1)
Plug holder (1)

Optional Accessories

CCDD-X2 4-pin/4-pin DC Power Cord for Portable Video Equipment BP-GL65 Rechargeable Lithium-ion Battery Pack BP-GL95 Rechargeable Lithium-ion Battery Pack BP-L60S Rechargeable Lithium-ion Battery Pack BP-L80S Rechargeable Lithium-ion Battery Pack

Specifications

Power requirements: AC 120 to 240 V, 50/60 Hz Power consumption: Approx. 160 W Output: DC 16.8 V, 6 A (to the lithium-ion battery pack or an external device via the XLR 4-pin) DC 19.5 V, 5 A (to the nickel metal hydride battery pack) Charging time: For one battery BP-GL95: 145 minutes BP-GL65: 155 minutes BP-L60S: 155 minutes For four batteries BP-GL95: 345 minutes BP-GL65: 365 minutes BP-L60S: 365 minutes Operating temperature: 0 to $+40^{\circ}$ C (+32 to $+104^{\circ}$ F) Storage temperature: $-20 \text{ to } +60^{\circ}\text{C} \text{ (-4 to } +140^{\circ}\text{F)}$ Operating/storage humidity: 20% to 90% RH Mass: 3.5 kg (7 lb 11 oz) Dimensions: 155 (W) x 120 (H) x 330 (D) mm

(6 1/8 x 4 3/4 x 13 inches)



Camcorder Accessories & Peripherals

BC-L70 Li-ion Battery Charger

Features

•Can charge Sony V-mount type lithium-ion batteries: BP-GL95/GL65 •Up to two battery packs can be charged simultaneously •Quick and efficient charging •One BP-GL95 battery can be fully charged within 145 minutes •Two BP-GL95 batteries can be fully charged within 220 minutes •Max. 100 W DC power supply (XLR-4-pin)



AC Power Card Plug holder Operation manual

Optional Accessories

BP-GL65 Rechargeable Lithium-ion Battery Pack BP-GL95 Rechargeable Lithium-ion Battery Pack BP-L60S Rechargeable Lithium-ion Battery Pack BP-L80S Rechargeable Lithium-ion Battery Pack

Applicable Models

LMD-9050 LCD monitor LMD-9030 LCD monitor LMD-9020 LCD monitor SRPC-1 HD Video Processor SRW-1 HDCAM-SR Portable VTR WLL-CA50 Wireless Camera Transmitter PDW-D1 XDCAM Drive Unit PDW-V1 XDCAM Mobile Deck HDW-S280 HDCAM Compact Recorder HDW-750P HDCAM Camcorder HDW-790P HDCAM Camcorder MSW-970P MPEG IMX Camcorder PAL model HDW-730S HDCAM Camcorder HDW-F900R HDCAM Camcorder DVW-970P Digital Betacam Camcorder MSW-970 MPEG IMX Camcorder DSR-400PL DVCAM Camcorder DSR-450WSPL DVCAM Camcorder DSR-400PK DVCAM Camcorder DSR-50P Recorder DVW-970 Digital Betacam Camcorder PDW-510P XDCAM Camcorder PDW-530P XDCAM Camcorder PDW-510 XDCAM Camcorder PDW-530 XDCAM Camcorder

PDW-F330 XDCAM HD Camcorder PDW-F350 XDCAM HD Camcorder

SpecificationsPower requirements

AC 100 to 240 V, 50/60 Hz
Power consumption
Less than 168 VA
DC output
Max. 16.8 V, 6 A
Operating temperature
0 to 45 °C (32 to 113 °F)
Dimensions (W x H x D)
60 x 237 x 134 mm
(2 3/8 x 9 3/8 x 5 3/8 inches)
Mass
Approx. 1.2 kg (2 lb 10 oz)
Charging time
For one battery
BP-GL95: 145 minutes

For two batteries BP-GL95: 220 minutes BP-GL65: 170 minutes BP-L60S: 170 minutes

BP-GL65: 155 minutes

BP-L60S: 150 minutes



BC-L500 Li-ion Battery Charger

Features

•The BC-L500 is a desktop-type four-channel quick charger for the BP-GL/IL/L Series lithium-ion batteries. •Can charge Sony V-mount type lithium-ion battery: BP-GL95/GL65/L60S/IL75/L90A/L60A/L40A •Up to four battery packs can be charged simultaneously •Quick simultaneous charging •One BP-GL95 battery can be fully charged approximately 145 minutes •Four BP-GL95 batteries can also be fully charged approximately 145 minutes •Space-saving design •3U high, 19-inch rack mountable •Front slot mechanism •Two chargers stackable

Supplied Accessories

AC power cord (1) Plug holder (1) Operation manual (1)

Optional Accessories

BP-GL65 Rechargeable Lithium-ion Battery Pack BP-GL95 Rechargeable Lithium-ion Battery Pack BP-L60S Rechargeable Lithium-ion Battery Pack BP-L80S Rechargeable Lithium-ion Battery Pack BP-IL75 Rechargeable Lithium-ion Battery Pack BP-L40A Rechargeable Lithium-ion Battery Pack BP-L60A Rechargeable Lithium-ion Battery Pack BP-L90A Rechargeable Lithium-ion Battery Pack

Applicable Models WLL-CA50 Wireless Camera Transmitter (CER) WLL-CA50 Wireless Camera Transmitter (UC) DSR-400PL DVCAM Camcorder DSR-450WSL DVCAM Camcorder DSR-450WSPL DVCAM Camcorder DSR-400L DVCAM Camcorder DSR-400PK DVCAM Camcorder DSR-400K DVCAM Camcorder SRPC-1 HD Video Processor HDW-730S HDCAM Camcorder HDW-750 HDCAM Camcorder HDW-750P HDCAM Camcorder HDW-790P HDCAM Camcorder HDW-F900R HDCAM Camcorder HDW-S280 HDCAM Compact Recorder SRW-1 HDCAM-SR Portable VTR PDW-R1 XDCAM Field Recorder PDW-V1 XDCAM Mobile Deck (Playback and File Recording) PDW-D1 XDCAM Drive Unit PDW-530P XDCAM Camcorder (MPEG IMX/DVCAM Recording) PDW-510P XDCAM Camcorder (DVCAM Recording) PDW-510 XDCAM Camcorder (DVCAM Recordina) PDW-530 XDCAM Camcorder (MPEG IMX/DVCAM Recording) PDW-F350L XDCAM HD Camcorder (without lens) PDW-F330L XDCAM HD Camcorder (without lens) PDW-F330K XDCAM HD Camcorder PDW-F330 XDCAM HD Camcorder PDW-F350 XDCAM HD Camcorder

MSW-970 MPEG IMX Camcorder MSW-970P MPEG IMX Camcorder DVW-970 Digital Betacam Camcorder DVW-970P Digital Betacam Camcorder

Specifications

Power requirements AC 100 to 240 V, 50/60 Hz Power consumption 480VA DC output Max. 16.8 V, 6 A Operating temperature 0 to 45 °C (32 to 113 °F) Dimensions (W x H x D) 435 x 124 x 230 mm (17 1/4 x 5 x 9 1/8 inches) Mass

Approx. 5.6 kg (12 lb 5 oz) Charging time

For one battery BP-GL95: 145 minutes BP-GL65: 155 minutes BP-L60S: 150 minutes For two batteries

> BP-GL95: 145 minutes BP-GI 65: 155 minutes BP-I 60S: 150 minutes





Camcorder Accessories & Peripherals

BP-GL65 Rechargeable Lithium-ion Battery Pack

Features

•Intelligent "INFO" battery that communicates digitally with Sony camcorders •Remaining capacity indication in viewfinder of the DVW-970/970P, HDW-750/750P, HDW-F900R, HDW-730/730S, MSW-970/970P, PDW-510/510P, PDW-530/530P camcorders •V-mount attaching mechanism for quick and easy battery change •Four-step green LED indicators for quick visual verification of the battery remaining capacity (more than 80%, 60%, 40%, 20%) •Four-step orange LED indicators for quick visual check of battery remaining capacity (below 20%, 15%, 10%, 5%)

When the BP-GL65 is used with camcorders other than those listed above, the battery alarm may not function properly.



Applicable Models

BC-L70 Li-ion Battery Charger BC-L500 Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger DSR-400PK DVCAM Camcorder DSR-400PL DVCAM Camcorder DSR-450WSPL DVCAM Camcorder DVW-970P Digital Betacam Camcorder HDW-730S HDCAM Camcorder HDW-750P HDCAM Camcorder HDW-790P HDCAM Camcorder HDW-F900R HDCAM Camcorder MSW-970P MPEG IMX Camcorder PDW-510 XDCAM Camcorder PDW-510P XDCAM Camcorder PDW-530 XDCAM Camcorder PDW-530P XDCAM Camcorder

> PDW-F3 30 XDCAM HD Camcord

PDW-F350 XDCAM HD Camcorder SRPC-1 HD Video Processor SRW-1 HDCAM-SR Portable VTR WLL-CA50 Wireless Camera Transmitter WLL-CA55 Wireless Camera Transmitter

Supplied Accessories

Operation manual (1)

Specifications

Type of battery:
Rechargeable lithium-ion battery
Maximum voltage:
16.8 V
Nominal voltage:
14.4 V
Cell capacity:
65 Wh
Operating temperature (for discharge):
-10°C to +45°C (+14°F to +113°F)
Dimensions (W x H x D):
92 x 138 x 41 mm (3 5/8 x 5 1/2 x 1 5/8 inches)
Mass:
Approx. 550 g (1 lb 3 oz)

Lead-free solder is used for soldering. Halogenated flame retardants are not used in the cabinets and the printed wiring boards.

BP-GL95 Rechargeable Lithium-ion Battery Pack

Features

·Intelligent "INFO" battery that communicates digitally with Sony camcorders •Remaining capacity indication on viewfinder of the DVW-970/970P, HDW-750/750P, HDW-F900R HDW-730/730S, MSW-970/970P, PDW-510/510P. PDW-530/530P camcorders •V-mount attaching mechanism for quick and easy battery change •Four-step green LED indicators for quick visual verification of the battery remaining capacity (more than 80%, 60%, 40%, 20%) • Four-step orange LED indicators for quick visual check of battery remaining capacity (below 20%, 15%, 10%, 5%)

When the BP-GL95 is used with camcorders other than those listed above, the battery alarm may not function properly.



Applicable Models

BC-L70 Li-ion Battery Charger BC-L500 Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger DSR-400PK DVCAM Camcorder DSR-400PL DVCAM Camcorder DSR-450WSPL DVCAM Camcorder HDW-730S HDCAM Camcorder HDW-750P HDCAM Camcorder HDW-790P HDCAM Camcorder HDW-F900R HDCAM Camcorder DVW-970P Digital Betacam Camcorder MSW-970P MPEG IMX Camcorder PDW-510 XDCAM Camcorder PDW-510P XDCAM Camcorder PDW-530 XDCAM Camcorder PDW-530P XDCAM Camcorder PDW-F330 XDCAM HD Camcorder PDW-F350 XDCAM HD Camcorder PDW-V1 XDCAM Mobile Deck SRPC-1 HD Video Processor SRW-1 HDCAM-SR Portable VTR WLL-CA50 Wireless Camera Transmitter WLL-CA55 Wireless Camera Transmitter

Supplied Accessories

Operation manual (1)

Specifications

Type of battery: Rechargeable lithium-ion battery Maximum voltage: 16.8 V Nominal voltage 14.4 V Cell capacity: 95 Wh Operating temperature (for discharge): -20°C to +45°C (-4°F to +113°F) Dimensions (W x H x D): 92 x 138 x 41 mm (3 5/8 x 5 1/2 x 1 5/8 inches) Mass:

760 g (1 lb 10 oz) Eco-info

Lead-free solder is used for soldering Halogenated flame retardants are not used in the cabinets and the printed wiring boards.

BP-L60S Rechargeable Lithium-ion Battery Pack

Features

- ·High capacity lithium-ion battery ·Built-in LED capacity indicator for quick visual check of the battery reserve
- •V-shoe attachment for quick and easy battery change
- ·Specially designed for compatibility with non info-lithium enabled products, so that the battery level and alarms will function correctly.

Applicable Models

BC-L70 Ni-MH & Li-ion Battery Charger BC-L500 Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger DSR-250P DVCAM Camcorder DSR-400PK DVCAM Camcorder DSR-400PL DVCAM Camcorder DSR-450WSPL DVCAM Camcorder DSR-50P Recorder DVW-970P Digital Betacam Camcorder DXC-D50PH 3-chip CCD Portable Colour Camera DXC-D50PK 3-chip CCD Portable Colour Camera DXC-D50PL 3-chip CCD Portable Colour Camera DXC-D50WSPL 3-chip CCD Portable Colour Camera HDW-730S HDCAM Camcorder HDW-750P HDCAM Camcorder HDW-790P HDCAM Camcorder

HDW-F900R HDCAM Camcorder

PDW-510 XDCAM Camcorder

PDW-510P XDCAM Camcorder PDW-530 XDCAM Camcorder

MSW-970P MPEG IMX Camcorder

PDW-F330 XDCAM HD Camcorder PDW-F350 XDCAM HD Camcorder WLL-CA50 Wireless Camera Transmitter WLL-CA55 Wireless Camera Transmitter **Specifications** Battery type Lithium-ion rechargeable battery Maximum voltage DC 16.8 V Nominal voltage

PDW-530P XDCAM Camcorder

DC 14.4 V Capacity 64 8 Wh Operating temperature -20 to +45 °C (-4 to +113 °F) Dimensions (W x H x D) 101 x 37.3 x 168.7 mm (4 x 1 5/16 x 6 1/2 inches)

Approx. 800 g (1 lb 10 oz)



BP-L80S Rechargeable Lithium-ion Battery Pack

Mass

- ·High capacity lithium-ion battery ·Built-in LED capacity indicator for quick visual check of the battery reserve
- •V-shoe attachment for quick and easy battery change
- •Specially designed for compatibility with non info-lithium enabled products, so that the battery level and alarms will function correctly.

Applicable Models

BC-L70 Ni-MH & Li-ion Battery Charger BC-L500 Li-ion Battery Charger BC-M150 Ni-MH & Li-ion Battery Charger DSR-250P DVCAM Camcorder DSR-400PK DVCAM Camcorder DSR-400PL DVCAM Camcorder DSR-450WSPL DVCAM Camcorder DVW-970P Digital Betacam Camcorder DXC-D50PH 3-chip CCD Portable Colour Camera DXC-D50PK 3-chip CCD Portable Colour Camera DXC-D50PL 3-chip CCD Portable Colour Camera DXC-D50WSPL 3-chip CCD Portable Colour

HDW-730S HDCAM Camcorder HDW-750P HDCAM Camcorder HDW-790P HDCAM Camcorder HDW-F900R HDCAM Camcorder MSW-970P MPEG IMX Camcorder WLL-CA50 Wireless Camera Transmitter WLL-CA55 Wireless Camera Transmitter

Specifications

Battery type Lithium-ion rechargeable battery Maximum voltage DC 168 V Nominal voltage DC 14.4 V Capacity 83.5Wh Operating temperature -20 to +45 °C (-4 to +113 °F) Dimensions (W x H x D) 101 x 52 x 169 mm

(4 x 2 1/16 x 6 5/8 inches) Mass Approx 1000g (2lb 3 oz)



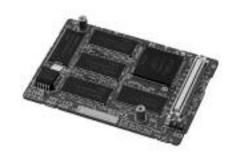
CBK-MB01 Picture Cache Board

Features

•Up to eight seconds of video signal can be recorded before the REC button is pressed •Allows recordings to be made over long time periods

Applicable Models

DVW-970P Digital Betacam Camcorder



CBK-FC01 Pull-down (24P shooting) Board

Features

•Provides progressive modes of 23.976P to offer a film-like effect •Recording to disc is in 59.94i via 2-3 pull-down.

Applicable Models

PDW-510 XDCAM Camcorder (DVCAM Recording)
PDW-530 XDCAM Camcorder (MPEG IMX/DVCAM Recording)



CBK-SC01 Analogue Composite Input Board

Applicable Models

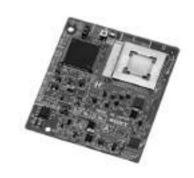
PDW-510 XDCAM Camcorder (DVCAM Recording)
PDW-510P XDCAM Camcorder (DVCAM Recording)
PDW-530 XDCAM Camcorder (MPEG IMX/DVCAM Recording)
PDW-530P XDCAM Camcorder (MPEG IMX/DVCAM Recording)



CBK-SD01 SDI Output Board

Applicable Models

PDW-510 XDCAM Camcorder (DVCAM Recording)
PDW-510P XDCAM Camcorder (DVCAM Recording)
PDW-530 XDCAM Camcorder (MPEG IMX/DVCAM Recording)
PDW-530P XDCAM Camcorder (MPEG IMX/DVCAM Recording)



CBK-NC01 Ethernet (100Base-TX) Adaptor

Features

•Allows PDW-530/530P/510/510P camcorders to connect with an Ethernet network

Applicable Models

PDW-510 XDCAM Camcorder (DVCAM Recording)
PDW-510P XDCAM Camcorder (DVCAM Recording)
PDW-530 XDCAM Camcorder (MPEG IMX/DVCAM Recording)
PDW-530P XDCAM Camcorder (MPEG IMX/DVCAM Recording)



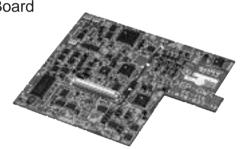
HKDW-702/1 Down Converter Board

Features

- •Used with the HDW-730S/750P/790P/F900R series
- •Provides down-converted Standard Definition output
- •The output is available in SD-SDI or analogue composite

Applicable Models

HDW-730S HDCAM Camcorder HDW-750P HDCAM Camcorder HDW-790P HDCAM Camcorder HDW-F900R HDCAM Camcorder



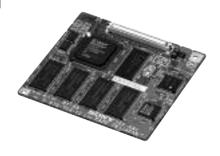
HKDW-703/1 Picture Cache Board

Features

- •Used with the HDW-730S/750P/F900R series
- Provides up to seven seconds of loop recording using solid state memory so that scenes happening prior to the press of REC start button are captured

Applicable Models

HDW-730S HDCAM Camcorder HDW-750P HDCAM Camcorder HDW-790P HDCAM Camcorder HDW-F900R HDCAM Camcorder



HKDW-705 Slow Shutter Board

Features

•Used with the HDW-750P/730S camcorder •Allows to slow the shutter speed down to 64-frame period (1-, 2-, 3-, 4-, 5-, 6-, 7-, 8-, 16-, 32-, or 64-frame period) •Helps to make images in extremely dark environment •Helps to make create pictures by the intentional use of blurred images

Applicable Models

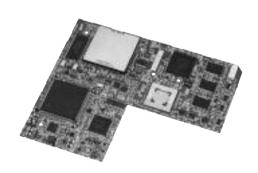
HDW-730S HDCAM Camcorder HDW-750P HDCAM Camcorder



HKDW-902R 2-3 Pull-down/Down Converter Board

Features

- •Used with the HDW-790P/F900R camcorder
- •Down-converts 1080/23.98P HD signals to SD signals via 2-3 pull-down circuitry •SD monitoring of 1080/23.98P signals on a conventional NTSC monitor •Also enables SD output to the HDW-F900R's viewfinder or a monitor connected to the camcorder during 23.98P recording •Users can check images on the viewfinder or monitor without the flicker that usually occurs from 23.98P recording •SD signal, SD-SDI or analogue composite can be selected via the camcorder's set-up menu.



Applicable Models

HDW-790P HDCAM Camcorder
HDW-F900R HDCAM Camcorder*
* Features based upon 1080/23.98P are
applicable to HDW-F900R only

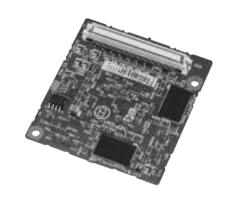
HKDW-905R Slow Shutter/Image Inverter Board

Features

•Used with the HDW-790P/F900R camcorder
•Allows to slow the shutter speed down to 64-frame period (1-, 2-, 3-, 4-, 5-, 6-, 7-, 8-, 16-, 32-, or 64-frame period) •Helps to make images in extremely dark environment •Helps to make create pictures by the intentional use of blurred images

Applicable Models

HDW-790P HDCAM Camcorder HDW-F900R HDCAM Camcorder



HVL-LBP LED on-camera light

Features

•Brightness of 600 lx (1 m), life of approx. 10,000 hours (whole unit), and power consumption of 16 W •Ideal for wide-angle shooting •Uniform lighting over the entire projected area •Spotlight projection with supplied condensing lens attached •Light diffuser attached to soften shadows and reduce contrast •Compatible with camcorder batteries, such as the NP-F770/F970 •Long operating time: approximately 3 hours with the NP-F970 (at maximum brightness)

Supplied Accessories

Battery adaptor (1)

Applicable Models

HVR-V1C HDV Camcorder HVR-V1E HDV Camcorder HVR-V1U HDV Camcorder HVR-V1N HDV Camcorder HVR-V1P HDV Camcorder HVR-A1N HDV Camcorder HVR-A1C HDV Camcorder HVR-A1E HDV Camcorder HVR-A1P HDV Camcorder



HVR-Z1U HDV Camcorder HVR-Z1P HDV Camcorder DSR-PD170 DVCAM Camcorder HVR-Z1N HDV Camcorder HVR-Z1C HDV Camcorder HVR-Z1E HDV Camcorder DSR-PD170P DVCAM Camcorder

HVL-20DW2 Battery Video Light

Battery Video Light

Applicable ModelsDSR-PD170P DVCAM Camcorder

DSR-PD170P DVCAM Camcorde
HVR-71F HDV Camcorder



HVL-F10 Video Flash

Video Flash

Applicable Models

DSR-PDX10P DVCAM Camcorder



HVL-FH1100 Flash

The HVL-FH1100 camcorder flash docks on the camcorder's Intelligent Accessory Shoe, and the interface is designed so that when the camcorder's photo button is pressed, the light flashes in synchronization.

Applicable Models

DSR-PDX10P DVCAM Camcorder

Supplied Accessories

Operation manual (1) Pouch (1)

Specifications

Dimensions:

W 68 x H 110 x D 92 mm (2 3/4 x 4 3/8 x 3 5/8 inches)

Mass:

190 g (6.7 oz)

Battery Power Requirements:

AA Alkaline (4)

Connecter:

Intelligent Accessory Shoe



LC-777 Carrying Case

Applicable Models

PDW-530P XDCAM Camcorder PDW-510P XDCAM Camcorder PDW-530 XDCAM Camcorder PDW-510 XDCAM Camcorder

LC-DN7 Carrying Case

Applicable Models

DVW-970P Digital Betacam Camcorder MSW-970P MPEG IMX Camcorder HDW-730S HDCAM Camcorder HDW-750P HDCAM Camcorder HDW-790P HDCAM Camcorder HDW-F900R HDCAM Camcorder

LCH-FXA Hard Carrying Case

Features

•With its specially designed interior, this case can efficiently store the video camera and accessories.

Applicable Models

HVR-Z1E



LCH-TRV950 Hard Carrying Case

Features

•With its specially designed interior, this case can efficiently store the video camera and accessories.

Applicable Models

DSR-PDX10P DVCAM Camcorder

Supplied Accessories

Key (2) Shoulder strap (1) Sticker (1)

Specifications

Dimensions: W 395 x H 260 x D 205 mm (15 5/8 x 10 1/4 x 8 1/8 inches)

Mass:

2700 g (5 lb 15 oz)



LCH-VX2000A Hard Carrying Case

Hard Carrying Case

Applicable Models

DSR-PD170P DVCAM Camcorder



LCR-FXA Rain Jacket

Applicable Models

HVR-Z1E



LCS-VCB Soft Carrying Case

Applicable Models

HVR-71F



LCS-G1BP Soft Carrying Case

Applicable Models

HVR-V1C HDV Camcorder HVR-V1E HDV Camcorder HVR-V1U HDV Camcorder HVR-V1N HDV Camcorder HVR-V1P HDV Camcorder HVR-A1N HDV Camcorder HVR-A1U HDV Camcorder HVR-A1C HDV Camcorder HVR-A1E HDV Camcorder HVR-A1P HDV Camcorder DSR-PD170 DVCAM Camcorder HVR-Z1P HDV Camcorder HVR-Z1U HDV Camcorder HVR-Z1C HDV Camcorder HVR-Z1C HDV Camcorder HVR-Z1E HDV Camcorder DSR-PD170P DVCAM Camcorder



LO-32BMT 2/3-inch Lens Mount Adaptor

Features

•For mounting a 2/3-inch bayonet-mount type lens on 1/2-inch type CCD cameras such as the PDW-F330/F350

Applicable Models

PDW-F330K XDCAM HD Camcorder (with lens)

PDW-F330L XDCAM HD Camcorder

(without lens)



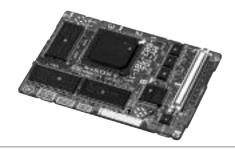
PDW-F350L XDCAM HD Camcorder (without lens)

MSDW-903 Picture Cache Board

Picture cache board for MSW-970/970P MPEG IMX Camcorder

Applicable Models

MSW-970 MPEG IMX Camcorder MSW-970P MPEG IMX Camcorder



MSDW-904 Analog Composite Input Board

Analogue composite input board for MSW-970/970P MPEG IMX Camcorder

Applicable Models

MSW-970 MPEG IMX Camcorder MSW-970P MPEG IMX Camcorder



NP-F570 Rechargeable Battery Pack

Applicable Models

DSR-PD170P HVR-Z1E HVR-M10F



NP-F770 Rechargeable Battery Pack

Applicable Models

DSR-PD170P HVR-Z1E HVR-M10F



2NP-F970/B Rechargeable Battery Pack (2)

The 2NP-F970 is a rechargeable battery pack. Each pack includes two NP-970 batteries suitables for use with the DSR-PD170P, HVR-Z1E and HVR-M10E products.

Features

•STAMINA super-long battery life and lithium-ion cells with no 'Memory Effect' •Both highly efficient, compact and light-weight •Built-in microprocessor which communicates with the camera and accurately indicate remaining battery time in minutes

Applicable Models

DSR-PD170P HVR-Z1E HVR-M10E

Supplied Accessories

NP-970 (2)



2NP-QM91D/B Rechargeable Battery Pack (2)

Features

•Indicate the remaining capacity of the battery via 5 types of 4 LEDs indication •Indicate the charging via LEDs light

Applicable Models

DSR-PDX10P HVR-A1E

Supplied Accessories

Operation manual (*) (1)

(*) English/French

Specifications

Dimensions: W 38.2 x H 59.5 x D 55.6 mm (1 9/16 x 2 3/8 x 2 1/4 inches) Mass:

225 g (7.9 oz)

Maximum output voltage:

DC 8.4 V

Capacity:

29.8 Wh (4140 mAh)

Operating Temperature:

0 to +40°C (+32°F to +104°F)





NP-QM91D Rechargeable Battery Pack

Features

•Indicate the remaining capacity of the battery via 5 types of 4 LEDs indication •Indicate the charging via LEDs light

Applicable Models

DSR-PDX10 DVCAM Camcorder HVR-A1E

Supplied Accessories

Operation manual (1)

Specifications

Dimensions:

W 38.2 x H 59.5 x D 55.6 mm (1 9/16 x 2 3/8 x 2 1/4 inches)

Mass

225 g (7.9 oz)

Maximum output voltage:

DC 8.4 V

Capacity:

29.8 Wh (4140 mAh)

Operating Temperature:

0 to +40°C (+32°F to +104°F)



RM-1BP LANC Remote Controller

Applicable Models

HVR-A1E HDV Camcorder



RM-B150 Remote Control Unit

Applicable Models

BVP-E30P 3-chip CCD Portable Colour Camera BVP-E30WSP 3-chip CCD Portable Colour Camera

DSR-450WSPL DVCAM Camcorder

DVW-970P Digital Betacam Camcorder

HDC-1500 HD Portable Camera

HDC-1550 HD Portable Camera HDC-X300 HD Multi-purpose Camera

HDC-X300K HD Multi-purpose Camera

HDC-X310 HD Multi-purpose Camera

HDC-X310K HD Multi-purpose Camera

HDW-730S HDCAM Camcorder

HDW-750P HDCAM Camcorder

HDW-790P HDCAM Camcorder HDW-F900R HDCAM Camcorder

MSW-970P MPEG IMX Camcorder

PDW-510 XDCAM Camcorder

PDW-510P XDCAM Camcorder

PDW-530 XDCAM Camcorder

PDW-530P XDCAM Camcorder SRPC-1 HD Video Processor

SRW-1 HDCAM-SR Portable VTR

WLL-RX55 Wireless Camera Receiver



RM-B750 Remote Control Unit

Features

•Designed to establish a highly mobile and fully controllable camera system in the field

Applicable Models

BVP-E30P 3-chip CCD Portable Colour Camera BVP-E30WSP 3-chip CCD Portable Colour Camera DSR-450WSPL DVCAM Camcorder DVW-970P Digital Betacam Camcorders HDC-1000 3-chip CCD Studio/OB Camera System

HDC-1500 3-chip CCD Studio/OB Camera System

HDCU-1500 HD Camera Control Unit

HDC-X300 HD Multi-purpose Camera

HDC-X300K HD Multi-purpose Camera

HDC-X310 HD Multi-purpose Camera

HDC-X310K HD Multi-purpose Camera

HDW-730S HDCAM Camcorder

HDW-750P HDCAM Camcorder

HDW-790P HDCAM Camcorder

HDW-F900R HDCAM Camcorder

MSW-970P MPEG IMX Camcorder

PDW-510 XDCAM Camcorder

PDW-510P XDCAM Camcorder

PDW-530 XDCAM Camcorder

PDW-530P XDCAM Camcorder

SRPC-1 HD Video Processor

SRW-1 HDCAM-SR Portable VTR

WLL-RX55 Wireless Camera Receiver

Specifications

General

Power requirements:

DC 10.5 - 30 V (max) (supplied from camera/camcorder/CCU

Operating temperature:

+5°C to +40 °C

Dimensions:

-20°C to +55°C

Mass:

Approx. 0.7 kg (1 lb 9 oz)

Inputs

Control interface:

8-pin (x 1), Sony Camera Command

Network Protocol

Monitor in

BNC type (x 1) VBS (No HD signal capable)



SH-L35WBP LCD Hood

Applicable Models

HVR-V1E HDV Camcorder HVR-V1C HDV Camcorder HVR-V1U HDV Camcorder HVR-V1N HDV Camcorder HVR-V1P HDV Camcorder



VCL-0737W Wide Conversion Lens

Features

•0.7 times wide conversion lens •Extensive Improvement of resolution.

Applicable Models

BRC-300 3-CCD Colour Video Camera DSR-PDX10P DVCAM Camcorder

Supplied Accessories

Carrying case (1)
Lens Caps (for the front and back of the lens) (2)
Operation manual (1)

Specifications

Dimension (Approx.):
Diameter 67 mm (2 3/4 inches)
Length (Approx.):
47mm (1 7/8 inches)
Mass:

ass: 196 a (7 lb)



VCL-HG0862K 0.8x Wide Conversion Lens

Features

- ·Bayonet mount for easy attachment and detachment
- •Lens hood supplied •A lens filter with a filter diameter of 86 mm can be attached

Applicable Models

HVR-V1E HDV Camcorder HVR-V1P HDV Camcorder HVR-V1C HDV Camcorder HVR-V1U HDV Camcorder HVR-V1N HDV Camcorder



VCL-HG0872 HDV Wide Conversion Lens

Applicable Models

HVR-Z1E HDV Camcorder



VCT-14 Tripod Adaptor

Applicable Models

HDC-1500 HD Portable Camera BVP-E30P 3-chip CCD Portable Colour Camera BVP-E30WSP 3-chip CCD Portable Colour Camera DVW-970P Digital Betacam Camcorder

DVW-970P Digital Betacam Camcorder HDW-730S HDCAM Camcorder HDW-750P HDCAM Camcorder HDW-790P HDCAM Camcorder

HDW-F900R HDCAM Camcorder MSW-970P MPEG IMX Camcorder

PDW-510 XDCAM Camcorder (DVCAM Recording)

PDW-510P XDCAM Camcorder (DVCAM

Recording)
PDW-530 XDCAM Camcorder (MPEG

IMX/DVCAM Recording)

PDW-530P XDCAM Camcorder (MPEG IMX/DVCAM Recording)



Specifications

Dimensions: 282(W) x 27(H) x 80(D)mm (11 1/8 x 1 1/8 x 3 1/4 inches) Mass: 900 q (2 lb)

VCT-1BP Bracket

Applicable Models

Applicable Wodels
HVR-V1E HDV Camcorder
HVR-V1P HDV Camcorder
HVR-V1D HDV Camcorder
HVR-V1U HDV Camcorder
HVR-V1N HDV Camcorder
HVR-A1U HDV Camcorder
HVR-A1E HDV Camcorder
HVR-A1F HDV Camcorder
HVR-A1P HDV Camcorder
HVR-A1N HDV Camcorder
HVR-Z1U HDV CAMCORDER
HVR-Z1U HDV CAMCORDER
HVR-Z1U HDV CAMCORDER

HVR-Z1E HDV Camcorder DSR-PD170P DVCAM Camcorder



VCT-PG11RMB Tripod with the RM-1BP LANC Remote Controller

Applicable Models

HVR-Z1N HDV Camcorder HVR-Z1C HDV Camcorder

HVR-A1E HDV Camcorder



VCT-FXA Shoulder Brace

Applicable Models

HVR-Z1E HDV Camcorder



VF-72CPK PL Filter Kit

Applicable Models

HVR-Z1E HDV Camcorder



VTR/Deck Accessories & Peripherals

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BKDW-101 Remote Control Panel

Remote control panel for DVW-2000 Series Digital Betacam recorders

Applicable Models

DVW-2000 Digital Betacam Recorder DVW-2000P Digital Betacam Recorder DVW-M2000 Digital Betacam Recorder DVW-M2000P Digital Betacam Recorder



BKMW-101 Remote Control Panel

Remote control panel for MSW-2000/1 series MPEG IMX VTRs

Applicable Models

MSW-2000 MPEG IMX Recorder MSW-A2000 MPEG IMX Recorder MSW-A2000P MPEG IMX Recorder MSW-M2000 MPEG IMX Recorder MSW-M2000P MPEG IMX Recorder MSW-M2100 MPEG IMX Player MSW-M2100P MPEG IMX Player (all versions including /1)

Optional Accessories

BKMW-102 Remote Control Unit BKMW-103 Control Panel Extention Kit



BKMW-102 Control Panel Case

Control panel case for BKDW-101, BKMW-101 and HKDW-101

Applicable Models

BKDW-101 Remote Control Panel
BKMW-101 Remote Control Panel
DVW-2000 Digital Betacam Recorder
DVW-2000P Digital Betacam Recorder
DVW-M2000P Digital Betacam Recorder
DVW-M2000P Digital Betacam Recorder
DVW-M2000P Digital Betacam Recorder
HDW-2000 HDCAM VTR*
HDW-M2000 HDCAM VTR*
HDW-M2000P HDCAM VTR*
HDW-M2000P HDCAM VTR*
HDW-M2000 HDCAM VTR*
HDW-M2100 HDCAM Player*
HDW-M2100P HDCAM Player*
HKDW-101 Remote Control Panel

MSW-2000 MPEG IMX Recorder**
MSW-A2000 MPEG IMX Recorder**
MSW-A2000P MPEG IMX Recorder**
MSW-M2000 MPEG IMX Recorder**
MSW-M2000P MPEG IMX Recorder**
MSW-M2100 MPEG IMX Player**
MSW-M2100P MPEG IMX Player**

*all versions including /20

**all versions including /1



BKMW-103 Control Panel Extension Kit

Control panel extension kit for MSW-2000 series, DVW-2000 series and HDW-2000 series VTRs

Applicable Models

BKDW-101 Remote Control Panel BKMW-101 Remote Control Panel DVW-2000 Digital Betacam Recorder DVW-2000P Digital Betacam Recorder DVW-M2000 Digital Betacam Recorder DVW-M2000P Digital Betacam Recorder HDW-2000 HDCAM VTR* HDW-M2000 HDCAM VTR* HDW-M2000P HDCAM VTR* HDW-D2000 HDCAM VTR* HDW-M2100 HDCAM Player* HDW-M2100P HDCAM Player* HKDW-101 Remote Control Panel MSW-2000 MPEG IMX Recorder* MSW-A2000 MPEG IMX Recorder** MSW-A2000P MPEG IMX Recorder** MSW-M2000 MPEG IMX Recorder** MSW-M2000P MPEG IMX Recorder** MSW-M2100 MPEG IMX Player** MSW-M2100P MPEG IMX Player** *all versions including /20



BKMW-104 HD Up-converter Board (*1)

Features

**all versions including /1

•Allows 1080/59.94i, 1080/50i and 720/59.94p output from the playback signals of SD 1/2-inch formats⁽²⁾, including Betacam, Betacam SP, Betacam SX and Digital Betacam as well as MPEG IMX format •Outputs HD 1125 tri-level sync signal as reference signal

(*1) Either this board or BKMW-E3000 board can be installed in an MSW-2000 series VTR. (*2) Only from the playback-compatible format of the VTR used.

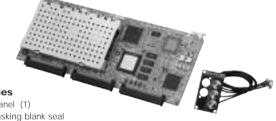
Applicable Models

DVW-2000 Digital Betacam Recorder
DVW-2000P Digital Betacam Recorder
DVW-M2000P Digital Betacam Recorder
DVW-M2000P Digital Betacam Recorder
MSW-2000 MPEG IMX Recorder**
MSW-A2000 MPEG IMX Recorder**
MSW-A2000P MPEG IMX Recorder**
MSW-M2000 MPEG IMX Recorder**
MSW-M2000P MPEG IMX Recorder**
MSW-M2000P MPEG IMX Recorder**
MSW-M2100 MPEG IMX Player**
MSW-M2100P MPEG IMX Player**

*all versions including /20
**all versions including /1

Supplied Accessories

SDI/HD-SDI connector panel (1)
SDI INPUT connector masking blank seal
(for player) (1)
VIDEO CONTROL (HD/SD) seal (1)
Attachment screws (6)
Operation and installation guide (1)
Installation manual (1)



BKMW-E3000 Network Interface Board (option for e-VTR)(*1)

Features

 Adds a Gigabit Ethernet interface to an MSW-2000 series VTR to send and receive AV data as MXF(12) files across a standard IT network •Allows MXF file output from all 1/2-inch SD format tapes including Digital Betacam, Betacam SX, Betacam SP, Betacam as well as MPEG IMX (*3) • Receives MXF files and records AV signals and metadata that are wrapped in MXF files onto an MPEG IMX cassette •Supports industry-standard network interfaces and protocols including Giga-bit/ 100Base- TX/10-Base Ethernet, TCP/IP, FTP, HTTP and SNMP •Simple control of file exchange from a PC using supplied e-VTR Manager software •Control of e-VTR tape transport from a PC •Content browsing function allows operators to view any material loaded in any e-VTR on the network as low-rate data . Remote monitoring of e-VTR status through a network •Remote maintenance using SNMP protocol through a network

(*1) Either this board or BKMW-104 can be installed into an MSW-2000 series VTR (*2)MXF: Material eXchange Format (*3) Playback-compatible format depends on the VTR used.



Applicable Models

MSW-2000 MPEG IMX Recorder MSW-A2000 MPEG IMX Recorder MSW-A2000P MPEG IMX Recorder MSW-M2000 MPEG IMX Recorder MSW-M2000P MPEG IMX Recorder MSW-M2100 MPEG IMX Player MSW-M2100P MPEG IMX Player (all versions including (1)

Supplied Accessories

CD-ROM including e-VTR application software (1)

Connector panel with RJ-45 connector (1) Upper front panel for e-VTR operation (1)

Specifications

General

Power requirements:

+2.5V DC: 3.0A, +3.4V DC: 3.3A, +6.0V

DC: 1.0A

(supplied from MSW-2000 Series VTR)

Operating temperature:

+5 to +40°C (+41 to +104°F) Storage temperature:

-20 to +60° C (-4 to +140° F)

Operating humidity:

25 to 80% (no condensation)

imancione

Dimensions

Board (W x H):

355 x 146 mm (14 2/5 x 5 4/5 inches)

Front panel (W x H x D): 430 x 70 x 45 mm (17 2/5 x 2 4/5 x 1

4/5 inches)

4/5 inches

Connector panel (W x H):

72 x 42 mm (2 4/5 x 1 3/5 inches)

Mass

Board:

Approx. 380 g (13.4 oz)

Front panel:

Approx. 130 g (4.6 oz)

Connector panel:

Approx. 50 g (1.8 oz)

Interface:

Network Interface, RJ-45, 1000Base-T

(GbE), 100Base-TX, 10Base-T

System Requirements for the Supplied e-VTR Application Software

CPU:

1 GHz or higher

Memory:

256MB or higher

Operating System:

Windows XP/2000

Direct X:

8.11b or higher

Available hard disc space:

5 Mb or more

Monitor resolution:

XGA (1024 x 768) or more recommended

BKP-L551 Li-ion Battery Adaptor

Features

 Power supply capability from BP-GL/IL/L/M Series battery via XLR-4-pin connector

Applicable Models

PDW-D1 XDCAM Drive Unit HDW-S280 HDCAM Compact Record



DSBK-1501 Digital Input/Output Board

Features

•Allows Input/Output of SDI, SDTI(QSDI), AES/EBU

Applicable Models

DSR-1500AP DVCAM Editing Recorder

Specifications

Input

SDI/SDTI:

BNC (1), AES/EBU: BNC (2)

Dutput

SDI/SDTI:

BNC (2)*, AES/EBU: BNC (2)

* SDI and SDTI(QSDI) outputs share the same BNC



DSBK-1505 Analogue Input Board

Features

•A range of analogue interfaces including composite, component, S-Video(Y/C) and two channel analogue audio are provided.

Applicable Models

DSR-1500AP DVCAM Editing Recorder

Specifications

Input connectors

BNC (3)

Composite, Component and S-Video share the same BNC connectors.



DSBK-1601 SDI, AES/EBU Output Board

Features

Allows output of SDI (BNC x 2) and AES/EBU (BNC x 2)

Applicable Models

DSR-1600AP Editing Player



DSBK-1801 SDI, AES/EBU Input/Output Board

Features

Allows Input/Output of SDI and AES/EBU

Applicable Models

DSR-1800AP Editing Recorder

Specifications

Input

SDI: BNC (2) AES/EBU: BNC (2)

Output

. SDI: BNC (2)

AES/EBU: BNC(2)



DSBK-1820 HD Up-converter board

Features

•Enables conversion to 1080i through HD-SDI Output as well as SDI Input/Output and AES/EBU

Applicable Models

DSR-1600AP Editing Player DSR-1800AP Editing Recorder



DSBK-2020 HD Up-converter board

Features

•Enables conversion to 1080i through HD-SDI Output

Applicable Models

DSR-2000AP Editing Recorder



DSRM-10 Remote Control Unit

Features

•Provides wired remote control operation for STOP/REC/PAUSE/REW/PLAY/FFWD •JOG/SHUTTLE operation •Enables ±16 times normal speed in search operation

Applicable Models

DSR-11 Recorder DSR-25 Recorder

DSR-45AP Recorder DSR-1500AP Editing Recorder

DSR-50P Portable Recorder

Supplied Accessories

Operating manual (1)

Specifications

Power requirements:

DC 5 V (supplied from the connected VTR)

Power consumption:

50 mW

Remote control: Stereo mini-plug (with attached cable, length 3 m (10 ft)) Dimensions: 90 (W) x 46 (H) x 182 (D) mm (3 5/8 x 1 13/16 x 7 1/4 inches)

Approx. 360 g (12 oz)



HKDW-101 Remote Control Panel

Remote control panel for HDW-2000 series VTRs

Applicable Models

HDW-2000 HDCAM VTR
HDW-M2000 HDCAM VTR
HDW-M2000 HDCAM VTR
HDW-M2000 HDCAM VTR
HDW-D2000 HDCAM VTR
HDW-M2100 HDCAM Player
HDW-M2100 HDCAM Player
(all versions including /20)



HKDW-102 SDTI (HDCAM) Interface Board

Features

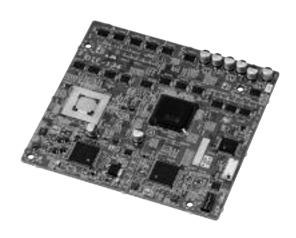
•Adds SDTI (HDCAM) input and output capabilities to an HDW-2000 series VTR

Applicable Models

HDW-2000 HDCAM VTR HDW-M2000 HDCAM VTR HDW-M2000P HDCAM VTR HDW-D2000 HDCAM VTR HDW-M2100 HDCAM Player HDW-M2100P HDCAM Player (all versions including /20)

Supplied Accessories

*SDTI (HDCAM)" label (1) Spacer (5 mm (7/32 inch) (4) Spacer (10 mm (13/32 inch) (4) Fitting screw (8) Cable clamp (1) Operation and installation guide (1) Installation manual (1)



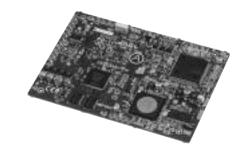
HKDW-104 Pull-down / 720P Converter Board

Features

•Allows the HDW-1800 and HDW-D1800 to replay 1080/50i and 1080/25PsF material from HDCAM tape, convert to 720/50P and output at 720/50P from the VTR. Also provides 2-3 pull-down capability.

Applicable Models

HDW-1800 HDCAM VTR HDW-D1800 HDCAM VTR



HKDW-105 i.LINK Interface Board

Features

•Allows the HDW-1800 and HDW-D1800 to accept an HDV 1080i compatible stream via a single i.LINK cable connection, without any conversion.

Applicable Models

HDW-1800 HDCAM VTR HDW-D1800 HDCAM VTR



PDBK-101 Network Board

Features

 Provides Gigabit Ethernet interface with the PDW-F70 and PDW-F30

Applicable Models

PDW-F70 XDCAM HD Recording Deck PDW-F30 XDCAM HD Viewing Deck



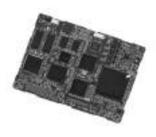
PDBK-102 MPEG-2 TS In/Out Board

Features

•Allows 25 Mb/s HDV stream (MPEG-2 TS) to be input and output between the PDW-F70/F30 decks and an HDV device

Applicable Models

PDW-F70 XDCAM HD Recording Deck PDW-F30 XDCAM HD Viewing Deck * Only one of the PDBK-102, PDBK-103 or PDBK-104 boards can be installed at any one time.



PDBK-103 HD Analogue Component Input Board

Features

 Provides the HD analogue component and RGB inputs with the PDW-F70 deck (these share the same BNC connector.)

Applicable Models

PDW-F70 XDCAM HD Recording Deck

* Only one of the PDBK-102, PDBK-103 or PDBK-104 boards can be installed at any one time.



PDBK-104 SD Input Upconverter Board

Features

• Provides the SD-SDI and SD composite input with the PDW-F70 deck

Applicable Models

PDW-F70 XDCAM HD Recording Deck

Note: Only HD recording is possible

* Only one of the PDBK-102, PDBK-103 or PDBK-104 boards can be installed at any one time.



RM-280 Editing Controller

The RM-280 is a compact editing controller intended for simple VTR remote control or basic two-machine editing

Features

- •Two-machine editing •Assemble and insert mode •Four-channel audio editing •A variety of edit buttons such as "IN- and OUT-POINT ENTRY", "+ and - TRIM", "AUTO EDIT", "PREVIEW/REVIEW", "GO TO", "ALL STOP" •TC/CTL/RTC (Relative Time Code) editing mode selectable •Pinch-on-delay time learning capability for accurate timing adjustments of recorder and player edit in-point •Edit delay time setting •Cue signal or tally output via a mini-pin port • Equipped with reference video input for synchronization with other equipment •VTR remote control function; PLAY, REWIND, FAST-FORWARD, REC, STOP, PAUSE, EDIT, PREROLL • Multiple system frequencies including 29.97, 25, 24, 23.98 Hz • Picture search using the jog/shuttle dial for jog, shuttle and variable-speed playback modes •Can be powered using the supplied AC adaptor or directly from a connected HDW-S280 HDCAM recorder from its DC output
- operations •Displays error messages on the VFD display, indicating the type of errors and device name on which the malfunction occurred for instant action to be taken •The RM-280 supports 2 field mode editing only. It does

· Easy-to-use keyboard layout provides straightforward

 The RM-280 supports 2 field mode editing only. It doe not support CF (Colour Frame) editing

Applicable Models

HDW-S280 HDCAM Compact Recorder DVW-2000 series Digital Betacam VTRs HDW-2000 series HDCAM VTRs* HDW-1800 series HDCAM VTRs MSW-2000 series MPEG IMX VTRs** PDW-1500 XDCAM Deck DSR-45AP DVCAM Recorder DSR-1500AP DVCAM Editing Recorder DSR-1600AP DVCAM Editing Player DSR-1800AP DVCAM Editing Recorder DSR-2000AP DVCAM Editing Recorder DSR-DR1000AP DVCAM Disk Recorder PDW-F70 XDCAM HD Recording Deck PDW-F30 XDCAM HD Viewing Deck PDW-R1 XDCAM Field Recorder SRW-5000 HDCAM SR VTR***

SRW-5500 HDCAM SR VTR***
SRW-1 HDCAM SR Portable VTR****
* all versions including /20

** all versions including /1

*** RM-280 needs SYS version 1.06 or higher

**** Supported as a player only, no PAUSE control available

Supplied Accessories

Operation manual (1) 9-pin/DC multi-cable (1) AC adaptor (1) Template (1)

Specifications

Power Requirements DC 11 - 17 V Power Consumption



600 g (1 lb 5 oz)
Dimensions (w x h x d)
210 x 52 x 161 mm
(8 ½ x 2 ½ x 6 ½ inches)
Operating Temperature
+5 to +40°C (+41 to +104°F)
Storage Temperature
-20 to +60°C (-4 to +140°F)

Connectors

RS-422A 9-pin remote x2 Reference video input (BNC) x1 RS-232C x1 Mini-jack for REC TALLY or cue signal output x1 DC input x1

RMM-131 Rack Mount Kit

Rack mount kit for HDW-1800/HDW-2000/ MSW-2000/Betacam SP/DVCAM series VTRs

Applicable Models

DSR-1600AP Editing Player
DSR-1800AP Editing Recorder
DSR-2000AP Editing Recorder
DVW-2000 Digital Betacam Recorder
DVW-2000P Digital Betacam Recorder
DVW-M2000P Digital Betacam Recorder
DVW-M2000P Digital Betacam Recorder
DVW-M2000P Digital Betacam Recorder
HDW-1800 HDCAM VTR
HDW-D1800 HDCAM VTR
HDW-2000 HDCAM VTR*
HDW-M2000 HDCAM VTR*
HDW-M2000P HDCAM VTR*

HDW-D2000 HDCAM VTR*

HDW-M2100 HDCAM Player*
HDW-M2100P HDCAM Player*
MSW-2000 MPEG IMX Recorder**
MSW-A2000 MPEG IMX Recorder**
MSW-A2000P MPEG IMX Recorder**
MSW-M2000 MPEG IMX Recorder**
MSW-M2000 MPEG IMX Recorder**
MSW-M2100 MPEG IMX Player**
MSW-M2100 MPEG IMX Player**

*all versions including /20
**all versions including /1



SONY

Networked Production

Networked Production

HDXchange							236
Sonaps							237
XnriNS							238

HDXchange Collaborative Editing Solution

HDXchange provides a complete solution for collaborative editing supporting multiple media file formats.

HDXchange's open architecture provides a flexible solution that allows for integration with third-party NLEs. It also includes powerful and easy-to-use media management tools, based on rich metadata and low-resolution proxies. HDXchange can easily integrate with archives for seamless capacity expansion.

HDXchange's open architecture, floating licenses, and web-based administration tools make the system easy to use, maintain, and expand. HDXchange provides enables organisations across many industry sectors to manipulate and create high quality AV content in-house without the need for strong AV knowledge.

Features

•A full end-to-end solution for collaborative editing with applications for ingesting from iLink sources, importing and exporting material from/to XDCAM decks, searching for and managing material, creating storyboards for export to 3rd party non-linear editors (NLEs), and exporting material to playout servers or archive systems. •Multi-format support including Sony formats XDCAM, XDCAM HD, HDV, DV, and DVCAM as well as MXF, AVI, and QuickTime formats. •Open editing platform with support for Apple Final Cut Pro, Sony Vegas and AVID LE. •Powerful media management tools based on rich metadata and low-resolution proxies. A rich metadata environment, based on the Dublin Core metadata model, allows operators to easily input, modify, and search for material. Features full integration with XDCAM metadata and proxies. •Easy archive integration to near-line disk storage or Sony PetaSite for cost effective expansion of managed media. •Easy to configure, use, and expand with server hosted applications and web administration

Supplied

HDXC-CORE SONY SHARED EDIT ENVIRONMENT CORE PK Pre-configured server including:

HDXchange Administration Services

- 5 Browser Client Floating Licenses
- 1 XDCAM Gateway Floating License
- 1 Logging Client Floating License
- 2 Export Client Floating Licenses

PDF Manuals

Optional Accessories

HDXC-B030 SONY SHARED EDIT ENVIRONMENT BROWSER SW HDXC-X030 SONY SHARED EDIT ENVIRONMENT GATEWAY SW HDXC-L030 SONY SHARED EDIT ENVIRONMENT LOGGING SW

HDXchange



Sonaps Integrated Networked Production System

Sonaps is a fully integrated and scalable workflow-specific system that optimises the processes in planning, capturing, producing and publishing content for broadcast news and sport. It has superior capabilities when compared to many systems available today. Sonaps allows innovative new workflow processes and operational procedures to be developed to further enhance the business performance of its users, reducing time to air, increasing efficiency and allowing greater creative opportunities.

Features

- •Fully IT-based networked production system
- ·Scaleable for inputs, outputs, clients and capacity
- •Multi-format operation SD/HD •Faster than real-time ingest and access for XDCam-based content •Powerful and customisable journalist editing tool based on XpriNS proxy editor •Advanced metadata handling, from planning to archive •File-based MXF content exchange
- •Classification of material by categories that can be shared by all users •Integrated audio/video editing with voice over, slow motion and advanced NLE capability
- ·Browsing of audio/video content from any connected terminal or workstation. •Field editing, seamless EDL exchange and fast time air for last minute content
- •Full MOS integration with newsroom computer systems, including planning, search, retrieve and upload and control of playlist •On air of playlists manually or under automation control. •Integration with third-party archiving and asset management •Integration with third-party automation. •Reliable and robust IT architecture with no single point of failure •Fully supported by remote diagnostics, dial-in management, monitoring and upgrade
- ·Roadmap for future enhancements, expansion and upgrade.

Project Services

Workflow definition and consultancy prior to system design. Full management of complete project implementation. Support package can be modelled to specific needs. Financial models can be tailored to available budgets.

Options

MXF Gateway

Allows file-based contribution and distribution.

MOS Gateway

Allows seamless integration to newsroom systems.

Archive Interface

Allows seamless integration with third-party asset management and archive systems, including robotics with disc or tape media. Remote editing

Allows remote access to the system for editing and contribution of finished stories.

Site to site connection

Allows interconnection of multiple Sonaps systems, for example, main centre and regions or bureaus, to provide seamless interchange of content across different sites.





XpriNS Advanced non-linear editing

The XPRI NS series of non-linear editors includes a proxy and high-resolution laptop field editor, a journalist's proxy editor, and a high-resolution finishing editor. The XPRI NS family features multi-format support, including native long GOP editing, application-dependant selectable interfaces, and close integration within the XDCAM, and XDCAMHD family of products, together with the SONAPS networked production system.

The XpriNS editor can be used as a dedicated standalone workstation or networked and fully integrated as the proxy and high-resolution editing components within the Sonaps networked production system.

Being completely software based, the XpriNS series provides a single GUI that is uniquely configurable for the user, whether in the field on a laptop, in a newsroom as a plug-in for a newsroom computer system or as a finishing tool for news, sport and magazine programming.





Option panels

DMW-C1 Media control bar

This hardware interface can be used to control audio levels, EQ levels, Colour correction parameters and DVE placement.

DMW-C2 Jog and Shuttle panel

The Jog/Shuttle can be used to control both VTR's connected to the XPRI as well as the XPRI clip and timeline editors.

DMW-C3 Audio control panel

This motorised audio panel is used primarily to control audio levels and audio routing. It can both "read" and "write" to the timeline.

DMW-C5 Linear-like editing control panel

The C5 is a linear like edit controller which is optimised to replace many traditional mouse and keyboard shortcuts.

Data Archive Solutions

Data Archive Solutions

PetaSite240

PetaSite Scalable Enterprise Storage System

Highly scalable and easy to manage, Sony PetaSite tape library solutions can help you protect your critical data – and generate fresh sources of value for your business – for years to come. As PetaSite can store anything from a Microsoft Word Document to a 4K feature film an investment in PetaSite today lets you embrace the opportunities of tomorrow's world with confidence.

Features

- •Over 400TB of storage per square metre equivalent to 36,000 hours of 25Mbps material. •High performance with up to 400 cartridge exchanges / hour and single stream transfer rates of up to 120MB/s •Complete format freedom with the choice of SAIT-2, LTO-3 and LTO-4 tape drives or a mixture. •Enterprise-grade reliability, with RAS features designed for uninterrupted 24 hour operation.
- •Cost effective expansion to 2.4PB or over 200,000 hours of 25Mbps material in a single five metre footprint.
- •Flexible administration with support for SNMP, email notification and remote administration. •Fits in with your infrastructure with support for standard IT protocols including SCSI. Fibre Channel and IP communication.

Base Models

CSM200B PetaSite 216 Slots No Drives CSM100B PetaSite 108 Slots No Drives CSM60B PetaSite 60 Slots No Drives

Supplied Accessories

DKNB200S SCSI LVD Interface card for PSC server DZCPSC2I PetaSite PSC2 V4 S/W on CD-ROM

Optional Accessories

CSM200C PETASITE S200 CARTRIDGE CONSOLE CSM200D PETASITE S200 DRIVE CONSOLE CSMU100B PETASITE MODEL S60 TO S100 UPGRADE CSMU200B PETASITE MODEL S100 TO S200 UPGRADE CSMADRLTO3F LTO-3 Fibre Drive for Sony PetaSite CSMADRLTO4F LTO-4 Fibre Drive for Sony PetaSite CSMADR230F PetaSite SAIT-2 Drive (Fibre) CSMADR200S PetaSite SAIT-2 Drive (SCSI) CSMABLTL PETASITE EXTENSION BELT (4-7 UNITS) CSMABLTS PETASITE EXTENSION BELT (1-3 UNITS) CSMACBLL PETASITE EXTENSION CABLE KIT (4-7 units) CSMACBLS PETASITE EXTENSION CABLE KIT (1-3 units) CSMADIF PETASITE REDUNDANT DRIVE CONTROL UNIT DKNB200S SCSI LVD Interface card for PSC server DZCPSC2I PetaSite PSC2 V4 S/W on CD-ROM CSMAPSD PETASITE REDUNDANT POWER UNIT - DRIVE CSMAPSL PETASITE REDUNDANT POWER UNIT - LIBRARY COMPAQ PC PSC SERVER HARDWARE DKNB200S SCSI LVD Interface card for PSC server DZCPSC2I PetaSite PSC2 V4 S/W on CD-ROM







Digital Video Switchers & Accessories

AWS-G500242	MVE-8000A271
BKAW-550243	MKE-8020A272
BKAW-570243	MKE-8021A272
DFS-800244	MKE-8040A272
BKDF-810245	MVE-9000273
BKDF-811245	MKE-9020M274
BKDF-840245	MKE-9021M274
BKDF-860245	MKE-9040M274
BKDF-861245	BZDM-9050275
MFS-2000246	MKS-8700275
HK-PSU02247	MKS-8701276
HK-PSU11247	MKS-8702
MKS-2010248	MKS-2700276
MKS-2015249	MKS-8010A277
MKS-2017	MKS-8011A277
MKS-2110M251	MKS-8013A278
MKS-2420M251	MKS-8014A278
MKS-2440	MKS-8015A
MKS-2470	MKS-8017A279
BZS-2000M252	MKS-8018A280
BZS-2470M	MKS-8019A280
BZS-2440M	MKS-8020A
MVS-8000G	MKS-8024A282
MVS-8000GSF	MKS-8025MS
BZS-8500M	MKS-8026A
BZS-8510M	MKS-8027A
BZS-8520M	MKS-8028A
BZS-8530M	MKS-8030A
DVS-9000	MKS-8031AJS
DVS-9000SF	MKS-8031ATB
BKDS-9160	MKS-8032A
BKDS-9161	MKS-8033A
BKDS-9162	MKS-8034ADK
BKDS-9210	MKS-8034AFB
BKDS-9470	MKS-8035A
BZS-9471	MKS-8036A
MKS-8110SD	MKS-8040
MKS-8110G	MKS-8041
MKS-8111SD	MKS-8042
MKS-8111G	MKS-8075
MKS-8160G	MKS-8075
MKS-8161M	MKS-8076
MKS-8162A	MKS-8080
MKS-8170G	
MKS-8210G	
MKS-8442G	MKS-9012A
MKS-8450G	
BZS-8250	SWC-5005
BZS-9250	SWC-5010
BZS-8200	MKS-2050
BZPS-8000	MKS-8050
BZPS-8001270	
HK-PSU04 270	

AWS-G500 Live Content Producer

Features

The Anycast Station is an all-in-one content creation tool designed for large projection applications such as church productions, product promotions, event and live staging, music clip creation, conferences, seminars, and distance learning •It comprises a high-quality video switcher, an audio mixer, a large LCD display, and a streaming encoder and server - all packed into an attache case size chassis weighing only about 15 lb. (7 kg) •The video switcher provides 4:2:2 8-bit processing, 6 primary inputs plus one still picture source, 1 ME with 1 keyer (selectable between Linear Key/Luminance Key/Chrominance Key) and 1 DSK with 1 fixed station logo •The audio mixer provides 48 kHz/24-bit processing, 6 stereo channel input mixing, 6 channel faders and 1 master fader •High-resolution (1280 x 1024 pixel) internal processing for seamless switching between video and PC sources · Versatile input/output (Input: Composite, S-Video, DV, and RGB/ Output: Composite, S-Video, RGB) •VISCA control functions for compatible Sony Pan/TIlt/Zoom cameras •A large LCD screen for PGM and PVW monitoring, plus 7 windows for input source and one internal still picture source monitoring •Built-in streaming encoder and streaming server function (optional feature) · Easy operation with one integrated control panel and the multi-window LCD •Multi-camera recording for convenient nonlinear editing.



Supplied Accessories

Installation Guide (1) Pin to BNC Connector (4)

Optional Accessories

BZAW-500 Keyboard / Software Kit BKAW-550 PC Video Interface Module BKAW-570 SD Video Interface Module

Specifications

- General-

Model

AWS-G500

Power Requirements

AC 100-240 V, 50/60 Hz

Operating Voltage

AC 90-260 V, 47/63 Hz

Power Consumption

Operating Temperature

0 to 40 °C (32 to 104 °F)

Dimensions (W x H x D)

424 x 114 x 354 mm

Approximately 7.0 kg (15 lb 7 oz)

- Video Signals -

VIDEO INPUTS (in exfactory configuration)

Composite

BNC Type x 4

Video: 1.0 Vp-p, 75 Ω , Sync negative

S-Video

DIN Type x 4

Y: 1.0 Vp-p, 75 Ω, Sync negative

C: 0.286 Vp-p at burst, 75 Ω (System Mode

59.94 Hz)

C: 0.3 Vp-p at burst, 75 Ω (System Mode 50 Hz)

IEEE 1394 4-pin Type x 4 IEC 61883-2 equiv.

D-Sub Shrinked 15-pin Type x 2 (Female)

XGA, SXGA

VIDEO OUTPUTS

Composite

BNC Type x 1

Video: 1.0 Vp-p, 75 Ω , Sync negative

S-Video

DIN Type x 1

Y: 1.0 Vp-p, 75 Ω, Sync negative

C: 0.286 Vp-p at burst, 75 Ω (59.94 Hz) C: 0.3 Vp-p at burst, 75 Ω (50 Hz)

Extended D-Sub 15-pin Type x 2 (Female)

XGA, SXGA

BNC Type x 2

Sync: 0.286 Vp-p, 75 Ω , Sync negative

(59.94 Hz)

Sync: 0.3 Vp-p, 75 Ω, Sync negative (50 Hz)

C: 0.286 Vp-p at burst, 75 Ω (59.94 Hz)

C: 0.3 Vp-p at burst, 75 Ω (50 Hz)

Recoder Port

HDD/DV

i.LINK: IEEE 1394 6-pin Type x 2

(in exfactory configuration)

HDD IF: SBP2

- Audio Signals -

AUDIO INPUTS

Analogue Inputs 1-2 XLR/TRS Combo Type x 2

Ref. Level: +4 dBu, -20 dBu, -44 dBu

Mic. Power: +48 V

Analogue Inputs 3-6

TRS Type x 4 / Ref. Level: +4 dBu, -20 dBu,

-44 dBu

Analogue Inputs 7-8

Pin x 2 / Ref. Level: -10 dBs

AUDIO OUTPUTS

PGM OUT

TRS Type x 2 / Ref.: +4 dBu / Impedance: 150 Ω

MIX OUT

Pin Type x 2 / Ref.: -10 dBs / Impedance: $10 \text{ k}\Omega$

AUX OUT

TRS Type x 2 / Ref.: +4 dBu / Impedance: 150 Ω

MONITOR OUT

TRS Type x 2 / Ref.: +4 dBu / Impedance: 150 Ω

HEADPHONES

1/4 inches Stereo Phone Jack Type x 2

70 mW x 2 / Impedance: 47 Ω

INTERCOM

D-Sub 9-pin Type (Female) / Original Parallel I/O

- Other Interfaces -

NFTWORK

RJ-45 Type x 1, 10/100base-TX

USB A Type x 2, USB1.1 equiv.

RGB(GUI)

D-Sub Shrinked 15-pin (Female), 1280 x 800,

60 Hz

REMOTE

D-Sub 9-pin (Male), RS-232C

FACTORY USE

D-Sub 15-pin (Male), Original Parallel I/O

MEMORY STICK

Memory Stick TM Slot

*Memory Stick Pro is not supported.

DIN 8-pin Type x1

Supports Sony VISCA camera commands.

15.4" High Brightness LCD, 1280 x 800, 60 Hz

Built-In Speaker x 2, Size: 20 x 40 mm

BKAW-550 PC Video Interface Module

Applicable Models

AWS-G500 Live Content Producer

Specifications

RGB

D-sub Shrinked 15-pin Type x 2 (Female), XGA, SXGA



BKAW-570 SD Video Interface Module

Applicable Models

AWS-G500 Live Content Producer

Specifications

Composite

BNC Type x 2

Video: 1.0 Vp-p, 75 Ω , Sync negative

S-Video

DIN Type x 2

Y: 1.0 Vp-p, 75 Ω , Sync negative

C: 0.286 Vp-p at burst, 75 Ω , (System

Mode 59.94 Hz)

C: 0.3 Vp-p at burst, 75 $\Omega_{\mbox{\tiny N}}$ (System Mode

50 Hz)

DV

IEEE 1394 4-pin Type x 2

IEC 61883-2 equiv.

HDD/DV

I.LINK: IEEE 1394 6-pin Type x 2

HDD IF: SBP2



DFS-800 Standard Definition DME Switcher

The DFS-800 is a powerful DME switcher that - despite its small footprint and affordable price - provides a wide variety of switcher functions, exceptional system versatility, and exceptional creative power.It is equipped with eight SD-SDI inputs and outputs as standard; however, as user requirements grow, these can be increased to 16 by adding optional expansion boards. Other standard features include six keyers (each capable of chromakeying), frame memory and a six-channel 3D DME unit. With its creative capability and high-quality special effects, the DFS-800 is designed to be a powerful, yet cost-effective tool for live events, small-scale production studios and editing suites.



Features

 Powerful Mix/Effect Functionality •Flexible Input/Output Configurations • Keyers • Wide Range of Creative Effects Including 3D • Powerful Frame Memory Function •Optional "Pre-combiner" Function •Compact and Intuitive Control Panel

Other Features

•Four colour background generators •Eight GPI inputs and 24 parallel tally outputs •Serial port for control from editors •Adjustable levels of process amplifier and white clip •USB port on the control panel for connecting USB flash memory drive and mouse •Storage of up to 100 patterns of sequences containing 31 settable key frames •96-event memory can be easily recalled using direct buttons •2-RU processor unit

Specifications

General

Power Requirement AC 100 V to 240 V $\pm 10\%$, 50/60 Hz Power Consumption Switcher Processor: 100 W (max. 160 W) Control Panel: 50 W Operating Temperature 5 to 40° C (41 to 104° F)

Operating Humidity 30 to 90 % (no condensation)

Dimensions (W x H x D) Switcher Processor: 430 x 88 x 425 mm

> (17 x 3 1/2 x 16 3/4 inches) Control Panel:

430 x 155.8 x 221 mm (17 x 6 1/4 x 8 3/4 inches)

Mass

Switcher Processor: Approx. 15 kg (33 lb 1 oz) Control Panel:

Approx. 5 kg (11 lb) Television Standard 525 / 60 (NTSC), 625 / 50 (PAL)

(Selectable at menu)

Signal Processing

4:2:2 digital component, 10-bit

Input Signals

Video Inputs 8 standard inputs, optionally expandable 16 inputs Digital component: 270 Mbps. 75 Ω. BNC Video Inputs (option) See the board configuration Digital component: 270 Mbps, 75 Ω, BNC Analogue component: Y: 1.0 Vp-p. B-Y/R-Y: 0.7 Vp-p, BNC Analogue composite: 1.0 Vp-p. 75 Ω, BNC Reference Input Analogue black burst: 0.429 Vp-p (NTSC) / 0.45 Vp-p (PAL). 75 Ω or Loopthrough, BNC

Output Signals

Video Output 8 standard output (PGM x 2, PREV, Clean, AUX x 4), optional expandable 16 outputs Digital component: 270 Mbps. 75 Ω, BNC Video Output (option)

See the board configuration Digital component: 270 Mbps, 75 Ω, BNC

Analogue component:

Y: 1.0 Vp-p, B-Y / R-Y: 0.7 Vp-p, BNC

Supplied Accessories

Control Panel connection cable Rack mount brackets Operation manual

Optional Accessories

BKDF-810 4 Digital Video Input Board BKDF-811 2 Analogue Video Input Board BKDF-840 16 Input DME Board (Pre-combiner) BKDF-860 4 Digital Video Output Board

BKDF-861 2 Analogue Video Output Board

Analogue composite: 1.0 Vp-p. 75 Ω, BNC RGB+SYNC: R/G/B:

0.7 Vp-p. 75 Ω, BNC Reference Output

> Analogue black burst: 0.429 Vp-p (NTSC) /

0.45 Vp-p (PAL), 75 Ω or Loopthrough, BNC

Quantization

Y: 10-bit, C: 10-bit, Key: 10-bit

I/O Delay

1H (When FS, edge/shadow and DME not applied to output)

Control Signals

Switcher Processor Control Panel

Ethernet 10 / 100BASE-T, RJ-45 x 1

Editor:

D-sub 9 pin (female) x 1 GPI IN/TALLY:

37-pin D-sub (female) x 1 (8 inputs / 24 outputs)

Control Panel

Switcher:

Ethernet, 10/100BASE-TX, RJ-45 x 1

D-sub 15-pin (female) x 1

USB1.1 or 2.0, "A" type (female) x 1

BKDF-810 Digital Video Input Board

One BKDF-810 board provides four SD-SDI inputs.

Applicable Models

DFS-800 Standard Definition DME Switcher

BKDF-811 2 Analogue Video Input Board

One BKDF-811 board provides two Analogue inputs (either composite x2, or composite x1 and component x1.)

Applicable Models

DFS-800 Standard Definition DME Switcher

BKDF-840 16 Input DME Board (Pre-combiner)

The optional BKDF-840 board provides a powerful pre-combiner function to make complex composition available on the small switcher. With the pre-combiner function, all sixteen inputs can be combined in a single image, which can then be used as a re-entry input.

Applicable Models

DFS-800 Standard Definition DME Switcher

BKDF-860 4 Digital Video Output Board

One BKDF-860 board provides four SD-SDI outputs.

Applicable Models

DFS-800 Standard Definition DME Switcher

BKDF-861 2 Analogue Video Output Board

One BKDF-861 board provides two Analogue outputs (either composite x2, or composite x1 and component x1.)

Applicable Models

DFS-800 Standard Definition DME Switcher

MFS-2000 Multi-Format Switcher Processor

The MFS-2000 is a 3RU high compact and low-cost multi-format switcher that is suitable for use in small-scale OB vehicles, production studios and editing suites.

Features

•High performance compact multi-format switcher •Both multi-format and standard definition configurations are supported •A standard definition configuration can be upgraded to a multi-format system with minimal cost by upgrading the software •Useful preset effect patterns are provided as preset wipes and DME wipe patterns •The FlexiPad control panel enables operations such as Macro. M/E and Effect Snapshot •Colour touch-screen LCD panel •Serial and parallel tally outputs •Both the control panel and switcher processor can be fitted with redundant power supply units •The optional 2-channel DME is capable of 2D/3D linear and non-linear effects and a variety of preset effects are included as standard •The optional frame memory can store a remarkable 435 frames of HD images or 2184 frames of SD images •Three types of control panels are provided: MKS-2010 1 M/E control panel, MKS-2015 1.5 M/E control panel, and MKS-2017 1.5 M/E wide control panel





Supplied Accessories

AC power cord (1) Operation manual (1)

Optional Accessories

MKS-2110M Input/Output Connector Board (MFS-2000) MKS-2440 Frame Memory Board Set (MFS-2000) MKS-2470 DME Board Set

MKS-2700 Device Control Unit HK-PSU01 Power Supply Unit HK-PSU02 Power Supply Unit

HK-PSU11 Power Supply Unit (Control Panel) MKS-2010 1 M/E Control Panel (MFS-2000) MKS-2015 1.5 M/E Control Panel (MFS-2000)

MKS-2017 1 .5 M/E Wide Control Panel (MFS-2000)

Specifications

General

Power requirements: AC 100 V to 240 V \pm 10% 50/60 Hz

Power consumption: 4.5 to 2.1 A (fully loaded)

Operating temperature: 5 °C to 40 °C (41 °F to 104 °F)

Storage temperature -20 °C to +60 °C (-4 °F to +140 °F)

Dimensions (W x H x D): 440 x 132 4 x 520 mm

(17 3/8 x 5 1/4 x 20 1/2 inches)

Mass:

22 kg (48 lb 8 oz, fully loaded)

Input/output connectors

Primary inputs: Max. 16, BNC x 1 each SMPTE292M (HDTV), SMPTE259-C (SDTV) SDI video outputs:

Max. 8, BNC x 2 each
SMPTE292M (HDTV), SMPTE259-C

Reference inputs:

BNC x 2, 75Ω with loop-through HDTV system: HD tri-level sync, Analogue black burst, or analogue sync SDTV system: Analogue black burst or analogue sync

Reference output: BNC x 1, 75 Ω

HDTV system: HD tri-level sync SDTV system: Analogue sync

Control signals

Switcher interface:

Control LAN: RJ-45 x 1, 100BASE-TX Data LAN: RJ-45 x 1, 100BASE-TX

DME interface:

Control LAN: RJ-45 x 1, 100BASE-TX Data LAN: RJ-45 x 1, 100BASE-TX

GPI:

D-sub 25-pin (female) x 1, TTL level inputs x 8,

Relay contact outputs x 4, Open collector outputs x 4

Tally:

D-sub 25-pin (female) x 1, Relay contact outputs x 4, Open collector outputs x 4

Serial tally:

D-sub 9-pin (female) x 1, RS-422A

HK-PSU02 Power Supply Unit

Redundant power supply unit for the MFS-2000 Multi Format Switcher Processor and MKS-8010A System Control Unit

Applicable Models

MFS-2000 Multi-Format Switcher Processor MKS-8010A System Control Unit MVE-8000A Multi-Format DME Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Supplied Accessories

Installation Guide (1) (1)

Specifications

General

Operating temperature: 5 to 40 °C (41 to 104 °F) Storage temperature: - 20 to 60 °C (- 4 to 140 °F) Operating humidity: 10% to 90% (nocondensation)

HK-PSU11 Power Supply Unit (Control Panel)

Redundant power supply unit for Control Panel Unit that can be used as second power supply unit for the MKS-2010, MKS-2015, and MKS-2017 Control Panels.

Applicable Models

MFS-2000 Multi-Format Switcher Processor MKS-2010 1 M/E Control Panel (MFS-2000) MKS-2015 1.5 M/E Control Panel (MFS-2000) MKS-2017 1 .5 M/E Wide Control Panel (MFS-2000)

Supplied Accessories

Installation Guide (1) (1)

Specifications

General

Operating temperature: 5 to 40 °C (41 to 104 °F) Storage temperature: - 20 to 60 °C (- 4 to 140 °F) Operating humidity: 10% to 90% (nocondensation)

MKS-2010 1 M/E Control Panel (MFS-2000)

The MKS-2010 is a compact 1 M/E Control Panel which is 19 inches in width and offers 12-crosspoint buttons. Its FlexiPad control panel is equipped with colour LCD buttons that indicate assigned functions to give users extremely intuitive operation. An easy-to-use colour touch-screen LCD panel provides users with effective and straightforward menu control.

Applicable Models

MFS-2000 Multi-Format Switcher Processor

Optional Accessories

Power consumption:

HK-PSU11 Power Supply Unit (Control Panel)

Specifications

General

1.0 to 0.5 A Operating temperature: 5 °C to 40 °C (41 °F to 104 °F) Storage temperature: -20 °C to +60 °C (-4 °F to +140 °F) Operation humidity: 10% to 90% RH Dimensions (W x H x D): 440 x 167.5 x 353.9 mm (17 3/8 x 6 5/8

x 14 inches)

Mass: 10.3 kg (22 lb 11 oz)

Input/output connectors

Reference inputs BNC connector x 2, 75 Ω with loop-through HDTV system: HD tri-level sync, Analogue black burst, or analogue sync

SDTV system: Analogue black burst or analogue sync

Ext display output: Mini D-sub 15-pin x 1, Analogue RGB interface

Control signals

Control LAN: RJ-45 x 1, 100BASE-TX Data LAN:

RJ-45 x 1, 100BASE-TX

Peripheral LAN:

RJ-45 x 1, 100BASE-TX

USB type A x 1, compliance with USB 1.1

Remote

BNC connector x 1, S-BUS

GPI:

D-sub 25-pin (female) x 1, TTL level inputs x 8, Relay contact outputs x 4, Open collector outputs x 4





MKS-2015 1.5 M/E Control Panel (MFS-2000)

The MKS-2015 is a compact 1.5 M/E Control Panel which is 19 inches in width and offers 12-crosspoint buttons. Its FlexiPad control panel is equipped with colour LCD buttons that indicate assigned functions to give users extremely intuitive operation. An easy-to-use colour touch-screen LCD panel provides users with effective and straightforward menu control.

Applicable Models

MFS-2000 Multi-Format Switcher Processor

Optional Accessories

HK-PSU11 Power Supply Unit (Control Panel)

Specifications

General

Power consumption: 1.0 to 0.5 A

Operating temperature:

5 °C to 40 °C (41 °F to 104 °F)

Storage temperature:

-20 °C to +60 °C (-4 °F to +140 °F)

Operation humidity:

10% to 90% RH

Dimensions (W x H x D):

440 x 167.5 x 448.1 mm (17 3/8 x 6 5/8

x 17 3/4 inches)

Mass:

11.3 kg (24 lb 15 oz)

Input/output connectors

Reference inputs

BNC type x 2, 75 Ω with loop-through

HDTV system: HD tri-level sync,

Analogue black burst, or analogue sync

SDTV system: Analogue black burst or analogue sync

Ext display output:

Mini D-sub 15-pin x 1, Analogue RGB

interface

Control signals

Control LAN:

RJ-45 x 1, 100BASE-TX

Data LAN:

RJ-45 x 1, 100BASE-TX

Peripheral LAN:

RJ-45 x 1, 100BASE-TX

Device:

USB type A x 1, compliance with USB

1.1 Remote

BNC connector x 1, S-BUS

GPI:

D-sub 25-pin (female) x 1, TTL level inputs x 8, Relay contact outputs x 4,

Open collector outputs x 4





MKS-2017 1.5 M/E Wide Control Panel (MFS-2000)

The MKS-2017 is a compact 1.5 M/E Wide Control Panel which is 576-mm width and offers 20-crosspoint buttons. Its FlexiPad control panel is equipped with colour LCD buttons that indicate assigned functions to give users extremely intuitive operation. An easy-to-use colour touch-screen LCD panel provides users with effective and straightforward menu control.

Applicable Models

MFS-2000 Multi-Format Switcher Processor

Optional Accessories

HK-PSU11 Power Supply Unit (Control Panel)

Specifications

General

Power consumption:

1.0 to 0.6 A

Operating temperature:

5 °C to 40 °C (41 °F to 104 °F)

Storage temperature:

-20 °C to +60 °C (-4 °F to +140 °F)

Operation humidity:

10% to 90% RH

Dimensions (W x H x D):

576 x 167.5 x 448.1 mm (22 3/4 x 6 5/8

x 17 3/4 inches)

Mass:

12.6 kg (27 lb 12 oz)

Input/output connectors

Reference inputs

BNC type x 2, 75 Ω with loop-through

HDTV system: HD tri-level sync,

Analogue black burst, or analogue sync

SDTV system: Analogue black burst or analogue sync

Ext display output:

Mini D-sub 15-pin x 1, Analogue RGB

interface

Control signals

Control LAN:

RJ-45 x 1, 100BASE-TX

Data LAN:

RJ-45 x 1, 100BASE-TX

Peripheral LAN:

RJ-45 x 1, 100BASE-TX

Device:

USB type A x 1, compliance with USB

1.1

Remote:

BNC connector x 1, S-BUS

D-sub 25-pin (female) x 1, TTL level inputs x 8, Relay contact outputs x 4,

Open collector outputs x 4





MKS-2110M Input/Output Connector Board (MFS-2000)

The optional MKS-2110M Input/Output Connector Board provides an additional 8 SDI input connectors and 4 SDI output connectors to the MFS-2000 Series Multi-Format Switchers.

Applicable Models

MFS-2000 Multi-Format Switcher Processor

Specifications

Input/output connectors

SDI video inputs:

Max.8, BNC connector x1 each

SMPTE292M(HDTV), SMPTE259-C(SDTV)

SDI video outputs:

Max.4, BNC connector x2 each SMPTE292M(HDTV), SMPTE259-C(SDTV)

MKS-2420M Colour Corrector Board

•The MKS-2420M adds two channel colour correction to an MFS-2000 system •Optional MKS-2440 board is required

Applicable Models

MFS-2000 Multi-Format Switcher Processor

MKS-2440 Frame Memory Board Set (MFS-2000)

The MKS-2440 Frame Memory Board Set provides powerful 6-channel frame memory with animation capability to the MFS-2000 Series Multi-Format Switchers. The MKS-2440 offers two channel-source busses and six channel outputs with re-position capability. The frame memory stores 435 frames of HD images which translates into approximately 15 seconds at 1080/59.94i, or 2184 frames of SD images which translates into approximately 73 seconds at 480i/59.94.

Applicable Models

MFS-2000 Multi-Format Switcher Processor

Specifications

Control signals

Image file LAN:

RJ-45 x 1, 100BASE-TX

Device:

IEEE1394 6-pin x 1

MKS-2470 DME Board Set

The MKS-2470 DME Board Set provides state-of-the-art integrated 2-channel effects as preset DME patterns to the MFS-2000 Series Multi-Format Switchers.

Applicable Models

MFS-2000 Multi-Format Switcher Processor

BZS-2000M MFS-2000 processor Upgrade Software from SD to Multi Format Configuration

Applicable Models

MFS-2000 Multi-Format Switcher Processor

BZS-2470M DME Upgrade Software from SD to Multi Format Configuration

Applicable Models

MFS-2000 Multi-Format Switcher Processor

BZS-2440M

Frame memory board Upgrade Software from SD to Multi Format Configuration

Applicable Models

MFS-2000 Multi-Format Switcher Processor

MVS-8000G Multi-Format Switcher Processor

The MVS-8000G is a multi-format switcher processor with a compact frame size only 8 RU high. The MVS-8000G offers a variety of option boards for flexible configurations from 2M/E to 4M/E. The MVS-8000G works as the main processor of the MVS-8000G switcher system with the CCP-8000/CCP-9000 Center Control Panel, MVE-8000G/MVE-9000 Multi Format DME Processor, and MKS-8700/MKS-2700 Device Control Unit.

* In order to enable multi format operation additional software BZS-8500/10/20/30 is required

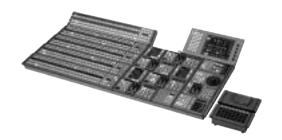
Features

•Multi-format capability: 1080i/60, 59.94, 50, 1080p/30, 29.97, 25, 24, 23.976, 720p/59.94, 480i/59.94, 576i/50 •2-, 2.5-, 3-, 3.5-, or 4-Mix/Effects configurations •Lavout free CCP-8000 series control panels •Creative M/E functionality: Four full function keyers per M/E, Multiple M/E Program output configurations •Independent M/E functionality, 4:3 / 16:9, Crosspoint Assignments and Bus Toggle on/off, Snapshots, Keyframe and various setups •Up to 80 inputs and 56 outputs (including 8 monitor outputs) •Integrated device control for VTRs, Digital Disc Recorders, Digital Multi-Effects, Routing Switchers and more •Multi-panel / Multi-processor operations •Can store 1000 frames of HD images (with optional MKS-8442G insrtalled) •The frame memory systems has eight simultaneous outputs • Programmable Macro capability supported •Integrated 3D DME or external DME control •Remote maintenance and image file exchange via Ethernet network •User programmable tally conditions and multi-level tally

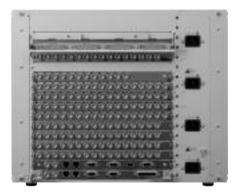
Supplied Accessories

75 Ω terminator (1) Bracket (4) Support angle (2) Screw (+B 4 x 10) (8) Screw (+PSW 4 x 10) (8) Operation manual (1) Installation manual (1)

For full list of options please refer to following product pages.



MVS Switcher Control Panel



MVS-8000G Multi-Format Switcher Processor

Digital Video Switchers & Accessories

Specifications Memory card/LISB adaptor: Terminal-General Approx. 1.2 kg (2 lb 10 oz) (with module) D-sub 9-pin, RS-232C MKS-8700 Device control unit: Power requirements: Approx. 8 kg (17 lb 10 oz) D-sub 25-pin, TTL level inputs x 8 / 100-240 V AC +/- 10%, 50/60 Hz Power consumption MKS-2700 Device control unit: relay contact outputs x 4 / Approx. 9.8 kg (21 lb 10 oz) (fully loaded) open collector outputs x 4 MVS-8000G Switcher processor: 15 to 6.25 A Operation temperature: Extension: +5 °C to +40 °C (+41°F to +104°F) BNC x 1 MVE-8000A DME processor: MVE-8000A DME processor Operating humidity: 25 to 10 A MVE-9000 DME processor: 10% to 90% (non-condensing) Control LAN: RJ-45 x 1, 100BASE-TX 6.0 to 2.5 A Serial digital video inputs MVS-8000G Switcher processor Data LAN: MKS-8700 Device control unit: Primary Inputs: RJ-45 x 1, 100BASE-TX 1.4 to 0.8A Editor MKS-2700 Device control unit: Max. 80. BNC x 1 each. 5.0 to 2.1A SMPTE292M (HDTV), SMPTE259M-C D-sub 9-pin x 4, RS-422A Dimensions (W x H x D, without projection) MVS-8000G Switcher processor: Serial digital video outputs D-sub 25-pin, TTL level inputs x 8 / MVS-8000G Switcher processor relay contact outputs x 4 / 482 x 354 x 520 mm (19 x 14 x 20 1/2 inches) Assignable outputs: open collector outputs x 4 MVE-8000A DME processor: Max. 48 MVE-9000 DME processor OUT 1 to 4, 13 to 16, 25 to 28, 37 to 40: Control LAN: 440 x 87.5 x 520 mm BNC x 2 each RJ-45 x 1, 100BASE-TX (17 3/8 x 3 1/2 x 20 1/2 inches) OUT 5 to 12, 17 to 24, 29 to 36, 41 to 48: Main panel Data LAN: RJ-45 x 1, 100BASE-TX 4 M/E, 32 crosspoint buttons: BNC x 1 each SMPTE292M (HDTV), SMPTE259M-C Editor: 1443 (with Mount Bracket) x 98 (max.) x (SDTV) D-sub 9-pin x 4, RS-422A (56 7/8 x 3 7/8 x 20 7/8 inches) Monitor outputs: 3 M/E, 32 crosspoint buttons: Max. 12. BNC x 2 each D-sub 25-pin x 2, dry contact or open SMPTE292M (HDTV), SMPTE259M-C collector inputs x 16/ 1443 (with mounting bracket) x 98 (max.) relay contact outputs x 8 / (56 7/8 x 3 7/8 x 20 7/8 inches) open collector outputs x 8 Dedicated switcher/DME video I/O CCP-8000 Series System control unit 2 M/E, 24 crosspoint buttons: MVS-8000G Switcher processor 1291 (with mounting bracket) x 92 (max.) Integrated DME I/O: RJ-45 x 1, 100BASE-TX (50 7/8 x 3 5/8 x 15 5/8 inches) 68-pin x 4. LVDS Data LAN-AUX BUS panel MVE-8000A DME processor RJ-45 x 1, 100BASE-TX Digital video I/O: Peripheral LAN: 32 crosspoint buttons: 782 (with mounting bracket) x 132 x 80 MDR 68-pin x 2 (inputs/outputs: 2 CH x 2), RJ-45 x 1, 100BASE-TX (max.) mm LVDS (30 7/8 x 5 1/4 x 3 1/4 inches) MVE-9000 DME processor D-sub 25-pin, TTL Level inputs x 8 / 24 crosspoint buttons: Digital video I/O: relay contact outputs x 4 / MDR 68-pin x 2 (inputs/outputs: 2 CH x 2), open collector outputs x 4 630 (with mounting bracket) x 132 x 80 Remote: (max.) mm (24 7/8 x 5 1/4 x 3 1/4 inches) BNC x 1, S-BUS Reference LTC: Menu panel: Switcher processor, DME processor, system BNC x 1 424 x 220 x 46 mm control unit, device control unit (16 3/4 x 83/4 x 1 13/16 inches) Device: Memory card/USB adaptor: Reference input: USB type A BNC x 2, 75 Ω with loop-through output 263 (with mounting bracket) x132 x 78.5 MKS-8700 Device control unit HDTV systems: HD tri-level sync/SDTV Peripheral LAN: (10 3/8 x 5 1/4 x 3 1/8 inches) analogue sync RJ-45 x 1, 100BASE-TX Serial tally 1: SDTV systems: Analogue black Extension adaptor: 263 (with mounting bracket) x132 x 78.5 mm burst/analogue sync D-sub 9-pin x 1, RS-422A (10 3/8 x 5 1/4 x 3 1/8 inches) Switcher processor Serial tally 2: MKS-8700 Device control unit: Reference output: D-sub 9-pin x 1, RS-422A BNC x 1, 75 Ω TALLY/GPI inputs: 482 x 132 x 520 mm HDTV systems: HD tri-level sync D-sub 37-pin x 3, TTL level inputs x 34 each (19 x 5 1/4 x 20 1/2 inches) MKS-2700 Device control unit: SDTV systems: Analogue sync TALLY/GPI outputs *: D-sub 37-pin, relay contact outputs 18ch, System interface 440 x 43.6 x 520 mm (17 3/8 x 1 3/4 x 20 1/2 inches) MVS-8000G Switcher processor up to 270 ch in step of 5 ch in a frame Mass Control LAN: RJ-45 x 1, 100BASE-TX D-sub 9-pin, RS-422A, various protocols, MVS-8000G Switcher processor: Approx. 51 kg (112 lb 7 oz) (fully loaded) Data LAN: up to 30 ports in steps of 6 ports in a frame RJ-45 x 1, 100BASE-TX MKS-2700 Device control unit MVE-8000A DME processor: Approx. 16 kg (35 lb 4 oz) (fully loaded) Remote 1: Peripheral LAN: RJ-45 x 1, 100BASE-TX D-sub 9-pin, RS-422A Main panel (4 M/E, 32 crosspoint buttons): Approx. 30 kg (66 lb 2 oz) Remote 2: TALLY/GPI inputs: AUX BUS panel (32 crosspoint buttons): D-sub 9-pin, RS-422A D-sub 37-pin x 1, TTL level inputs x 34 Remote 3: TALLY/GPL outputs Approx. 3.7 kg (8 lb 2 oz) Menu panel: D-sub 9-pin, RS-422A D-sub 37-pin x 2, TTL level inputs x 18 Approx. 2.2 kg (4 lb 13 oz) Remote 4: D-sub 9-pin, RS-422A Extension adaptor (with fader): Approx. 1.5 kg (3 lb 4 oz) (with module) D-sub 9-pin x 6, RS-422A, various protocols

MVS-8000GSF Multi-Format Switcher Processor

The MVS-8000GSF is a multi-format switcher processor with a compact frame size only 4 RU high. The MVS-8000GSF offers a variety of option boards for flexible configurations from 1M/E to 2.5M/E. The MVS-8000GSF works as the main processor of the MVS-8000GSF switcher system with the CCP-8000/CCP-9000 Center Control Panel, MVE-8000A/MVE-9000 Multi Format DME Processor, and MKS-8700/MKS-2700 Device Control Unit.

* In order to enable multi format operation additional software BZS-8500/10/20/30 is required

e and

MVS Switcher Control Panel



MVS-8000GSE Multi-Format Switcher Processor

Features

•Multi-format capability: 1080i/60, 59.94, 50, 1080p/30, 29.97, 25, 24, 23.976, 720p/59.94, 480i/59.94, 576i/50 •1-, 1.5-, 2 or 2.5 -Mix/Effects configurations •Layout free CCP-8000 series control panels • Creative M/E functionality: Four full function keyers per M/E, Multiple M/E Program output configurations •Independent M/E functionality, 4:3 / 16:9, Crosspoint Assignments and Bus Toggle on/off, Snapshots, Keyframe and various setups •Up to 34 inputs and 24 outputs •Integrated Optional device control for VTRs, Digital Disc Recorders, Digital Multi-Effects, Routing Switchers and more • Multi-panel / Multi-processor operations •Can store 1000 frames of HD images (with optional MKS-8442G installed) •The frame memory systems has eight simultaneous outputs Programmable Macro capability supported •Integrated 3D DME or external DME control •Remote maintenance and image file exchange via Ethernet network •User programmable tally conditions and multi-level tally

Supplied Accessories

75 Ω terminator (1) Bracket (4) Support angle (2) Screw (+B 4 x 10) (8) Screw (+PSW 4 x 10) (8) Operation manual (1) Installation manual (1)

For full list of options please refer to following product pages.

Digital Video Switchers & Accessories

Specifications	Extension adaptor (with fader):	Extension:
General	Approx. 1.5 kg (3 lb 4 oz) (with module)	BNC x 1
Power requirements:	Memory card/USB adaptor:	MVE-8000A DME processor
100-240 V AC +/- 10%, 50/60 Hz	Approx. 1.2 kg (2 lb 10 oz) (with	Control LAN:
Power consumption	module)	RJ-45 x 1, 100BASE-TX
MVS-8000GSF Switcher processor:	MKS-8700 Device control unit:	Data LAN:
7.5 to 3.1 A	Approx. 8 kg (17 lb 10 oz)	RJ-45 x 1, 100BASE-TX
MVE-8000A DME processor:	MKS-2700 Device control unit:	Editor:
2.5 to 1.0 A	Approx. 9.8 kg (21 lb 10 oz) (fully	D-sub 9-pin x 4, RS-422A
		•
MVE-9000 DME processor:	loaded)	GPI:
6.0 to 2.5 A	Operation temperature:	D-sub 25-pin, TTL level inputs x 8 /
MKS-8700 Device control unit:	+5 °C to +40 °C (+41°F to +104°F)	relay contact outputs x 4 /
1.4 to 0.8A	Operating humidity:	open collector outputs x 4
MKS-2700 Device control unit:	10% to 90% (non-condensing)	MVE-9000 DME processor
5.0 to 2.1A	Serial digital video inputs	Control LAN:
Dimensions (W x H x D, without projection)	MVS-8000GSF Switcher processor	RJ-45 x 1, 100BASE-TX
MVS-8000GSF Switcher processor:	Primary Inputs:	Data LAN:
482 x 177 x 520 mm	Max. 34, BNC x 1 each,	RJ-45 x 1, 100BASE-TX
(19 x 7 x 20 1/2 inches)	SMPTE292M (HDTV), SMPTE259M-C	Editor:
MVE-8000A DME processor:	(SDTV)	D-sub 9-pin x 4, RS-422A
·	Serial digital video outputs	GPI:
440 x 87.5 x 520 mm		
(17 3/8 x 3 1/2 x 20 1/2 inches)	MVS-8000GSF Switcher processor	D-sub 25-pin x 2, dry contact or open
Main panel	Assignable outputs:	collector inputs x 16/
4 M/E, 32 crosspoint buttons:	OUT 1 to 4, 13 to 16: BNC x 2 each	relay contact outputs x 8 /
1443 (with Mount Bracket) x 98 (max.) x	OUT 5 to 12, 17 to 24: BNC x 1 each	open collector outputs x 8
528 mm		CCP-8000 Series System control unit
(56 7/8 x 3 7/8 x 20 7/8 inches)	Dedicated switcher/DME video I/O	Control LAN:
3 M/E, 32 crosspoint buttons:	MVS-8000GSF Switcher processor	RJ-45 x 1, 100BASE-TX
1443 (with mounting bracket) x 98	Integrated DME I/O:	Data LAN:
(max.) x 528 mm	68-pin x 4, LVDS	RJ-45 x 1, 100BASE-TX
	MVE-8000A DME processor	Peripheral LAN:
(56 7/8 x 3 7/8 x 20 7/8 inches)	·	•
2 M/E, 24 crosspoint buttons:	Digital video I/O:	RJ-45 x 1, 100BASE-TX
1291 (with mounting bracket) x 92	MDR 68-pin x 2 (inputs/outputs: 2 CH x	GPI:
(max.) x 396 mm	2), LVDS	D-sub 25-pin, TTL Level inputs x 8 /
(50 7/8 x 3 5/8 x 15 5/8 inches)	MVE-9000 DME processor	relay contact outputs x 4 /
AUX BUS panel	Digital video I/O:	open collector outputs x 4
32 crosspoint buttons:	MDR 68-pin x 2 (inputs/outputs: 2 CH x	Remote:
782 (with mounting bracket) x 132 x 80	2), LVDS	BNC x 1, S-BUS
(max.) mm		LTC:
(30 7/8 x 5 1/4 x 3 1/4 inches)	Reference	BNC x 1
24 crosspoint buttons:	Switcher processor, DME processor, system	Device:
630 (with mounting bracket) x 132 x 80	control unit, device control unit	USB type A
	Reference input:	MKS-8700 Device control unit
(max.) mm	•	
(24 7/8 x 5 1/4 x 3 1/4 inches)	BNC x 2, 75 Ω with loop-through output	Peripheral LAN:
Menu panel:	HDTV systems: HD tri-level sync/SDTV	RJ-45 x 1, 100BASE-TX
424 x 220 x 46 mm	analogue sync	Serial tally 1:
(16 3/4 x 83/4 x 1 13/16 inches)	SDTV systems: Analogue black	D-sub 9-pin x 1, RS-422A
Memory card/USB adaptor:	burst/analogue sync	Serial tally 2:
263 (with mounting bracket) x132 x	Switcher processor	D-sub 9-pin x 1, RS-422A
78.5 mm	Reference output:	TALLY/GPI inputs:
(10 3/8 x 5 1/4 x 3 1/8 inches)	BNC x 1, 75 Ω	D-sub 37-pin x 3, TTL level inputs x 34
Extension adaptor:	HDTV systems: HD tri-level sync	each
263 (with mounting bracket) x132 x	SDTV systems: Analogue sync	TALLY/GPI outputs *:
78.5 mm	System interface	D-sub 37-pin, relay contact outputs
	•	
(10 3/8 x 5 1/4 x 3 1/8 inches)	MVS-8000GSF Switcher processor	18ch,
MKS-8700 Device control unit:	Control LAN:	up to 270 ch in step of 5 ch in a frame
482 x 132 x 520 mm	RJ-45 x 1, 100BASE-TX	Remote*:
(19 x 5 1/4 x 20 1/2 inches)	Data LAN:	D-sub 9-pin, RS-422A, various protocol
MKS-2700 Device control unit:	RJ-45 x 1, 100BASE-TX	up to 30 ports in steps of 6 ports in a
440 x 43.6 x 520 mm	Remote 1:	frame
(17 3/8 x 1 3/4 x 20 1/2 inches)	D-sub 9-pin, RS-422A	MKS-2700 Device control unit
Mass	Remote 2:	Peripheral LAN:
MVS-8000GSF Switcher processor:	D-sub 9-pin, RS-422A	RJ-45 x 1, 100BASE-TX
Approx. 28 kg (61 lb 12 oz) (fully	Remote 3:	TALLY/GPI inputs:
loaded)	D-sub 9-pin, RS-422A	D-sub 37-pin x 1, TTL level inputs x 34
•		
MVE-8000A DME processor:	Remote 4:	TALLY/GPI outputs :
Approx. 16 kg (35 lb 4 oz) (fully loaded)	D-sub 9-pin, RS-422A	D-sub 37-pin x 2, TTL level inputs x 18
Main panel (4 M/E, 32 crosspoint buttons):	Terminal:	each
Approx. 30 kg (66 lb 2 oz)	D-sub 9-pin, RS-232C	Remote:
AUX BUS panel (32 crosspoint buttons):	GPI:	D-sub 9-pin x 6, RS-422A, various
Approx. 3.7 kg (8 lb 2 oz)	D-sub 25-pin, TTL level inputs x 8 /	protocols
Menu panel:	relay contact outputs x 4 /	
Approx. 2.2 kg (4 lb 13 oz)	open collector outputs x 4	
Fig. 1 = 1.5 (1.5 15 05)	and the second of the second o	

BZS-8500M MVS-8000G Upgrade software from SD to Multi-format operation

Applicable Models

MVS-8000G Multi-Format Switcher Processor

BZS-8510M MVS-8000GSF Upgrade software from SD to Multi-format operation

Applicable Models

MVS-8000GSF Multi-Format Switcher Processor

BZS-8520M MKS-8210G Upgrade software from SD to Multi-format operation

Applicable Models

MVS-8000G/GSF Multi-Format Switcher Processor

BZS-8530M MVS-8210G Upgrade software from SD to Multi-format operation*

*for fourth ME in MVS-8000G only

Applicable Models

MVS-8000G Multi-Format Switcher Processor

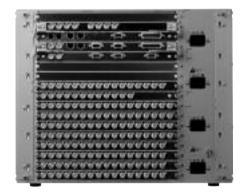
DVS-9000 Production Switcher Processor

Compared to conventional SD switchers, the DVS-9000 Series offers greater system flexibility, a range of enhanced functions and a more compact design. The system-control structure and setup/effect data of the DVS-9000 Series switchers are compatible with the MVS-8000 Series switchers. This enables you to configure a mixed DVS-9000 Series and MVS-8000 Series setup, and also provides a smooth migration path from SD to HD operations, with minimal cost and system reconfiguration.

Features

•525/625 switchable •8RU frame provides up to 80 primary inputs, 48 outputs and 8 monitor outputs •2. 2.5. 3.3.5. and 4-M/E configurations are available •Creative M/E functionality — Four full-function keyers per M/E, Multiple M/E program output configuration •Independent M/E functionality — 4:3/16:9 modes, crosspoint assignment, BUS toggle on/off, Snapshots, and keyframe can be set independently for each M/E Internal frame memory for storage of 444 SD images with 8 O/Ps •RGB colour-corrector option •Redundant power supply can be installed •Low power consumption Switcher processor and built-in DME consume less than 750 W • Sophisticated DME — BKDS-9470 DME Board Set •Two 100base-TX network interfaces — Multi-panel and multi-processor operation, Remote maintenance and image file exchange, Set up, effect and image data transfer •Compatible panels and peripherals with MVS-8000 Series Switchers - CCP-8000 Series and CCP-9000 Series Control Panels, MKS-8700 Device Control Unit, MKS-8080/8082 Aux Bus Remote Panel, UCP-8060 Universal Control Panel





Supplied Accessories

75 Ω terminator (1)
Bracket (4)
Support angle (2)
Screw (+B 4 x 10) (8)
Screw (+PSW 4 x 10) (8)
Operation manual (1)
Installation manual (1)

For full list of options please refer to following product pages.

Digital Video Switchers & Accessories

Specifications Control General 263 (with mount bracket) x 132 x 78.5 Control LANmm (10 3/8 x 5 1/4 x 3 1/8 inches) RJ-45, 100Base-TX Power requirement: Mass Data LAN: 100 to 240 V AC, ±10% 50/60 Hz Power consumption DVS-9000: RJ-45, 100Base-TX Approx. 43 kg (94 lb 13 oz) REMOTE 1 to 4: DVS-9000 CCP-8000 Series D-SUB 9-pin, RS-422A 8.6 to 4.2 A CCP-8000 Series Main Panel (4M/E, 32-crosspoint TERMINIAI -3.3 to 1.4 A buttons) D-SUB 9-pin, RS-232C CCP-9000 Series: 30 kg (66 lb 2 oz) GPI: 0.9 to 0.4 A Auxiliary Bus Panel (32-crosspoint D-SUB 25-pin, female, relay contact buttons): outputs x 4, open collector outputs x 4 Device control unit: 3.7 kg (8 lb 2 oz) EXTENSION: 1.4 to 0.8 A Menu Panel: BNC type connector x 1 Operating temperature: 5 °C to 40 °C (41 °F to 104 °F) 2.2 kg (4 lb 13 oz) Built-in DMF Storage temperature: System Control Unit: Control LAN -20 °C to +60 °C (-4 °F to +140 °F) 12 kg (26 lb 7 oz) RJ-45, 100Base-TX CCP-9000 Series Data LAN: Operating humidity: Main Panel RJ-45, 100Base-TX 10% to 90 % (Non-condensing) Dimensions (W x H x D) 2M/E, 12-crosspoint buttons: REMOTE: DVS-9000 12.5 kg (27 lb 9 oz) D-SUB 9-pin, RS-422A 482 x 354 x 520 mm (19 x 14 x 20 1/2 1M/E, 12-crosspoint buttons: GPI: 11.5 kg (25 lb 6 oz) D-SUB 25-pin, female, relay contact inches) CCP-8000 Series Menu Panel: outputs x 4, open collector outputs x 4 CCP-9000 Series 2.2 kg (4 lb 13 oz) Main Panel 4M/E. 32-crosspoint buttons: Device Control Unit: Control LAN: 1443 (with mount bracket) x 98.5 18 kg (39 lb 10 oz) (Fully loaded) RJ-45, 100Base-TX x 528 mm (56 7/8 x 4 x 20 7/8 Memory Card/USB Adaptor: Data LAN: 1.2 kg (2 lb 10 oz) (with module) RJ-45, 100Base-TX inches) 3M/E, 24-crosspoint buttons: Extension Adaptor: Peripheral LAN: 1.5 kg (3 lb 4 oz) (with module) 1291 (with mount bracket) x 98.5 R.J-45, 100Base-TX x 528 mm (50 7/8 x 4 x 20 7/8 Video inputs D-SUB 25-pin, relay contact outputs x Primary inputs: 2M/E, 16-crosspoint buttons: BNC type connector x 1 each, 4, open collector outputs x 4 1139 (with mount bracket) x 98.5 Remote x 396 mm (44 7/8 x 4 x 15 5/8 Serial digital video signal, SMPTE259M-C, BNC type, S-BUS $0.8 \text{ Vp-p} \pm 10\%, 270 \text{ Mb/s}, 75 \Omega$ Device: Input return loss: USB type A Auxiliary Bus Panel 15 dB Main Panel: 32-crosspoint buttons: 782 (with mount bracket) x 132 x Cable length: D-sub 50-pin 200 m (with Belden8281, 5C-2V or 80 mm (30 7/8 x 5 1/4 x 3 1/4 Menu Panel: equivalent coaxial cable) D-sub 50-pin inches) 24-crosspoint buttons: External inputs (Built-in DME): Ext Panel: 630 (with mount bracket) x 132 x BNC type connector x 4, D-sub 50-pin Serial digital video signal, SMPTE259M-C, Device Control Unit 80 mm (24 7/8 x 5 1/4 x 3 1/4 0.8 Vp-p $\pm 10\%$, 270 Mb/s, 75 Ω Peripheral LAN: inches) Input return loss: RJ-45, 100Base-TX 16-crosspoint buttons: 478 (with mount bracket) x 132 x 15 dB Serial tally 1 to 2: D-sub 9-pin, RS-422A 80 mm (18 7/8 x 5 1/4 x 3 1/4 Cable length: inches) 200 m (with Belden8281, 5C-2V or TALLY/GPI inputs: Menu Panel: equivalent coaxial cable) D-sub 37-pin x3, TTL level inputs x 34 424 x 220 x 46 mm (16 3/4 x 8 3/4 Reference inputs: x 1 13/16 inches) BNC type x 2, loop-through, analogue TALLY/GPI outputs *: System Control Unit: black burst or analogue sync D-sub 37-pin, relay contact outputs 482 x 132 x 520 mm (19 x 5 1/4 x Video outputs 18-ch, up to 15 ports in steps of 3 OUT 1 to 48 20 1/2 inches) ports in a frame CCP-9000 Series OUT 1 to 4, 13 to 16, 25 to 28, 37 to 40: REMOTE *: Main Panel BNC type connectors x 2 each D-sub 9-pin, RS-422A, various Out 5 to 12, 17 to 24, 29 to 36, 41 to 48: protocols, up to 30 ports in steps of 6 2M/E, 12-crosspoint buttons/1M/E, 12-crosspoint buttons: BNC type connector x 1 each ports in a frame 478 (with mount bracket) x 208 x Serial digital video signal, SMPTE259M-C, 442 mm (18 7/8 x 8 1/4 x 17 1/2 0.8 Vp-p \pm 10%, C135270 Mb/s, 75 Ω OUT 49 to 56 (Monitor outputs): inches) BNC type connectors x 2 each TALLY/GPI and REMOTE ports are alternatively Menu Panel: installed. Mixed configuration of TALLY/GPI and 424 x 220 x 46 mm (16 3/4 x 8 3/4 Serial digital video signal, SMPTE259M-C, REMOTE ports are supported. 0.8 Vp-p \pm 10%, 270 Mb/s, 75 Ω x 1 13/16 inches) MONITOR OUT 1 to 4 (built-in DME Device Control Unit: 482 x 132 x 520 mm (19 x 5 1/4 x 20 MONITOR OUTPUT)

BNC type connector x 1 each

BNC type x 1, analogue sync

Reference output:

0.8 Vp-p \pm 10%, 270 Mb/s, 75 Ω

Serial digital video signal, SMPTE259M-C,

1/2 inches)
Memory Card/USB Adaptor:

263 (with mount bracket) x 132 x 78.5

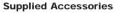
mm (10 3/8 x 5 1/4 x 3 1/8 inches)

DVS-9000SF Production Switcher Processor

Compared to conventional SD switchers, the DVS-9000 Series offers greater system flexibility, a range of enhanced functions and a more compact design. The system-control structure and setup/effect data of the DVS-9000 Series switchers are compatible with the MVS-8000 Series switchers. This enables you to configure a mixed DVS-9000 Series and MVS-8000 Series setup, and also provides a smooth migration path from SD to HD operations, with minimal cost and system reconfiguration.

Features

•525/625 switchable •4RU frame provides up to 34 primary inputs, 24 outputs •1, 1.5, 2 or 2.5-M/E configurations are available •Creative M/E functionality — Four full-function keyers per M/E, Multiple M/E program output configuration •Independent M/E functionality — 4:3/16:9 modes, crosspoint assignment, BUS toggle on/off, Snapshots, and keyframe can be set independently for each M/E • Internal frame memory for storage of 444 SD images with 8 O/Ps •RGB colour-corrector option •Redundant power supply can be installed •Low power consumption — Switcher processor and built-in DME consume less than 750 W • Sophisticated DME -BKDS-9470 DME Board Set •Two 100base-TX network interfaces — Multi-panel and multi-processor operation, Remote maintenance and image file exchange, Set up, effect and image data transfer . Compatible panels and peripherals with MVS-8000 Series Switchers — CCP-8000 Series and CCP-9000 Series Control Panels, MKS-8700 Device Control Unit, MKS-8080/8082 Aux Bus Remote Panel, UCP-8060 Universal Control Panel



 $75~\Omega~terminator~(1)\\ Bracket~(4)\\ Support angle~(2)\\ Screw~(+B~4~x~10)~(8)\\ Screw~(+PSW~4~x~10)~(8)\\ Operation~manual~(1)\\ Installation~manual~(1)$

For full list of options please refer to following product pages.





Digital Video Switchers & Accessories

Specifications	Extension Adaptor:	Control
General	263 (with mount bracket) x 132 x	Control LAN:
Power requirement:	78.5 mm (10 3/8 x 5 1/4 x 3 1/8	RJ-45, 100Base-TX
100 to 240 V AC, ±10% 50/60 Hz	inches)	Data LAN:
Power consumption	Mass	RJ-45, 100Base-TX
DVS-9000SF:	DVS-9000SF:	REMOTE 1 to 4:
5.5 to 2.5 A	Approx. 25 kg (55 lb 8 oz)	D-SUB 9-pin, RS-422A
CCP-8000 Series:	CCP-8000 Series	TERMINAL:
3.3 to 1.4 A	Main Panel (4M/E, 32-crosspoint	D-SUB 9-pin, RS-232C
CCP-9000 Series:	buttons):	GPI:
0.9 to 0.4 A	30 kg (66 lb 2 oz)	D-SUB 25-pin, female, relay contact
Device control unit:	Auxiliary Bus Panel (32-crosspoint	outputs x 4, open collector outputs x 4
1.4 to 0.8 A	buttons):	EXTENSION:
Operating temperature:	3.7 kg (8 lb 2 oz)	BNC type connector x 1
5 °C to 40 °C (41 °F to 104 °F)	Menu Panel:	Built-in DME
Storage temperature:	2.2 kg (4 lb 13 oz)	Control LAN:
-20 °C to +60 °C (-4 °F to +140 °F)	System Control Unit:	RJ-45, 100Base-TX
Operating humidity:	12 kg (26 lb 7 oz)	Data LAN:
10% to 90 % (Non-condensing)	CCP-9000 Series	RJ-45, 100Base-TX
Dimensions (W x H x D)	Main Panel	REMOTE:
DVS-9000SF:	2M/E, 12-crosspoint buttons:	D-SUB 9-pin, RS-422A
482 x 177 x 520 mm (19 x 7 x 20 1/2	12.5 kg (27 lb 9 oz)	GPI:
inches)	1M/E, 12-crosspoint buttons:	D-SUB 25-pin, female, relay contact
CCP-8000 Series	11.5 kg (25 lb 6 oz)	outputs x 4, open collector outputs x
Main Panel	Menu Panel:	4
4M/E, 32-crosspoint buttons:	2.2 kg (4 lb 13 oz)	CCP-9000 Series
1443 (with mount bracket) x	Device Control Unit:	Control LAN:
98.5 x 528 mm (56 7/8 x 4 x 20	18 kg (39 lb 10 oz) (Fully loaded)	RJ-45, 100Base-TX
7/8 inches)	Memory Card/USB Adaptor:	Data LAN:
3M/E, 24-crosspoint buttons:	1.2 kg (2 lb 10 oz) (with module)	RJ-45, 100Base-TX
1291 (with mount bracket) x	Extension Adaptor:	Peripheral LAN:
98.5 x 528 mm (50 7/8 x 4 x 20	1.5 kg (3 lb 4 oz) (with module)	RJ-45, 100Base-TX
7/8 inches)	Video inputs	GPI:
2M/E, 16-crosspoint buttons:	Primary inputs:	D-SUB 25-pin, relay contact outputs
1139 (with mount bracket) x	BNC type connector x 1 each,	x 4, open collector outputs x 4
98.5 x 396 mm (44 7/8 x 4 x 15	Max.34	Remote:
5/8 inches)	Serial digital video signal,	BNC type, S-BUS
Auxiliary Bus Panel	SMPTE259M-C, 0.8 Vp-p ± 10%, 270	Device:
32-crosspoint buttons:	Mb/s, 75 Ω	USB type A
782 (with mount bracket) x 132	Input return loss:	Main Panel:
x 80 mm (30 7/8 x 5 1/4 x 3 1/4	15 dB	D-sub 50-pin
inches)	Cable length:	Menu Panel:
24-crosspoint buttons:	200 m (with Belden8281, 5C-2V or	D-sub 50-pin
630 (with mount bracket) x 132	equivalent coaxial cable)	Ext Panel:
x 80 mm (24 7/8 x 5 1/4 x 3 1/4	External inputs (Built-in DME): BNC type connector x 4,	D-sub 50-pin Device Control Unit
inches) 16-crosspoint buttons:	Serial digital video signal,	Peripheral LAN:
478 (with mount bracket) x 132	SMPTE259M-C, 0.8 Vp-p ±10%, 270	RJ-45, 100Base-TX
x 80 mm (18 7/8 x 5 1/4 x 3 1/4	Mb/s, 75 Ω	Serial tally 1 to 2:
inches)	Input return loss:	D-sub 9-pin, RS-422A
Menu Panel:	15 dB	TALLY/GPI inputs:
424 x 220 x 46 mm (16 3/4 x 8 3/4	Cable length:	D-sub 37-pin x3, TTL level inputs x
x 1 13/16 inches)	200 m (with Belden8281, 5C-2V or	34 each,
System Control Unit:	equivalent coaxial cable)	TALLY/GPI outputs *:
482 x 132 x 520 mm (19 x 5 1/4 x	Reference inputs:	D-sub 37-pin, relay contact outputs
20 1/2 inches)	BNC type x 2, loop-through, analogue	18-ch, up to 15 ports in steps of 3
CCP-9000 Series	black burst or analogue sync	ports in a frame
Main Panel	Video outputs	REMOTE *:
2M/E, 12-crosspoint buttons/1M/E,	OUT 1 to 24	D-sub 9-pin, RS-422A, various
12-crosspoint buttons:	OUT 1 to 4, 13 to 16:	protocols, up to 30 ports in steps of
478 (with mount bracket) x 208	BNC type connectors x 2 each	ports in a frame
x 442 mm (18 7/8 x 8 1/4 x 17	Out 5 to 12, 17 to 24:	•
1/2 inches)	BNC type connector x 1 each	
Menu Panel:	Serial digital video signal,	
424 x 220 x 46 mm (16 3/4 x 8 3/4	SMPTE259M-C, 0.8 Vp-p ±10%,	TALLY/GPI and REMOTE ports are alternatively
x 1 13/16 inches)	C135270 Mb/s, 75 Ω	installed. Mixed configuration of TALLY/GPI and
Device Control Unit:	MONITOR OUT 1 to 4 (built-in DME	REMOTE ports are possible.
482 x 132 x 520 mm (19 x 5 1/4 x 20	MONITOR OUTPUT):	
1/2 inches)	BNC type connector x 1 each	
Memory Card/USB Adaptor:	Serial digital video signal,	
263 (with mount bracket) x 132 x	SMPTE259M-C, 0.8 Vp-p ±10%, 270	
78.5 mm (10 3/8 x 5 1/4 x 3 1/8	Mb/s, 75 Ω	

BNC type x 1, analogue sync

Reference output:

inches)

BKDS-9160 24-Output Board

The BKDS-9160 adds 24 outputs to the 24 outputs standard on the DVS-9000, making the total number of outputs 48.

Applicable Models

DVS-9000 Production Switcher Processor

BKDS-9161 8 Monitor Output Board

The BKDS-9161 is an optional SD SDI output board. With this option fitted, the DVS-9000 switcher processor offers eight re-clocked outputs to which the primary input signals can be routed with minimum delay. Those outputs are useful to monitor every primary input signal or to re-entry the primary input signals through the external processors such as colour correctors.

NOTE: Unlike the BKDS-9160, those monitor outputs cannot handle the processed signals.

Applicable Models

DVS-9000 Production Switcher Processor

BKDS-9162 12-Output Board

The BKDS-9162 adds 12 outputs to the 12 outputs standard on the DVS-9000SF, making the total number of outputs 24.

Applicable Models

DVS-9000SF Production Switcher Processor

BKDS-9210 Mix/Effect Board

The BKDS-9210 is an optional mix/effects board set. With this option installed, the DVS-9000 is expandable from two to four M/Es, and the DVS-9000SF is expandable from one to two M/Es

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor

BKDS-9470 DME Board Set

By installing the BKDS-9470, the DVS-9000 Series Switcher processors offer four channels of high-quality DME.

Features

•4 DME channels •Video, Key and SDI external video inputs per channel •External video input for use as the background or border/trail source •The four SDI monitor outputs allow monitoring of the video with graphic, the video without graphic, or the key •Y/C/K 10-bit processing •High-performance pixel-based anti-alias filter •8 x 8 multi-point interpolation •Frame base processing •2D, 3D and non-linear effects •Digital SKETCH, Digital SPARKLE, Colour Corrector and up to four channels of Intersect Combine •Powerful lighting effects

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor

Optional Accessories

BZS-9471 Texture Lighting Software

BZS-9471 Texture Lighting Software

Texture Lighting Software for the Sony DME board set BKDS-9470

Features

The BZS-9471 is Texture Lighting Software for use with the BKDS-9470 DME board installed in the DVS-9000 Production switcher processor. Its texture lighting function enables you to map a texture pattern onto a DME effect using the spotlight function. The Real Lighting Function can add more realistic lighting to several Non-linear effect patterns. Up to four light sources are available per DME channel. With its Test Sphere Function, the position and brightness of light sources can be confirmed with ease.

*V3.0 or later software is required in the BKDS-9470 to install the BZS-9471 Texture Lighting Software.

Applicable Models

BKDS-9470 DME Board Set

MKS-8110SD 17-Input Board (SD)

The MKS-8110SD is an optional SD SDI input board. With this option fitted, the DVS-9000 Series switcher processor provides 17 SD SDI inputs.

Features

•The DVS-9000 switcher processor can expand up to 68 inputs •The DVS-9000 SF switcher processor can expand up to 34 input

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor

MKS-8110G 17 Input Board

The MKS-8110G is an optional 17 I/P multi-format HD/SD SDI input board.

Features

•The MVS-8000G switcher processor can be expanded up to 68 inputs •The MVS-8000GSF switcher processor can expand up to 34 inputs

Applicable Models

MVS-8000G Production switcher processor MVS-8000GSF Production switcher processor

MKS-8111SD Additional 12-Input Board (SD)

MKS-8111SD is an optional board that provides an additional 12 SD SDI inputs. The SD SDI inputs of the MVS-8000 and DVS-9000 switcher processor can be expanded up to 80 in combination use of four MKS-8110SD boards and one MKS-8111SD board.

Applicable Models

DVS-9000 Production Switcher Processor

MKS-8111G Additional 12-Input Board

MKS-8111SD is an optional board that provides 12 HD/SD SDI multi-format inputs. The HD/SD SDI inputs of MVS-8000G switcher processor can be expanded up to 80 in combination use of four MKS-8110G boards and a MKS-8111G board.

Applicable Models

MVS-8000G Multi-Format Switcher Processor

MKS-8160G 24 Output Board Set

The MKS-8160G is an optional HD SDI/SD SDI multi-format output board. With this option installed, the MVS-8000G Switcher processor offers 24 HD SDI or SD SDI outputs.

Applicable Models

MVS-8000G Multi-Format Switcher Processor

MKS-8161M Monitor Output Board

The MKS-8161M is an optional HD SDI/SD SDI multi-format output board. With this option fitted, the MVS-8000G Switcher processor offers eight re-clocked outputs to which the primary input signals can be routed with minimum delay. Those outputs are useful to monitor every primary input signal or to re-entry the primary input signals through the external processors such as colour correctors.

Applicable Models

MVS-8000G Multi-Format Switcher Processor

MKS-8162A 12-Output Board

The MKS-8162A adds 12 outputs to the 12 outputs standard on the MVS-8000GSF, making the total outputs 24.

Applicable Models

MVS-8000GSF Multi-Format Switcher Processor

MKS-8170G DME Interface Board

Features

A DME interface board for multi-format applications for MVS-8000 Series.

Applicable Models

MVS-8000G Multi-Format Switcher Processor

MKS-8210G Mix/Effect Board

The MKS-8210G mix/effects board is an optional board for the MVS-8000G and MVS-8000GSF production switcher systems. By installing the MKS-8210G, the MVS-8000G Switcher processor can be extended from two to four M/Es and the MVS-8000GSF Switcher processor can be extended from one to two M/Es.

Applicable Models

MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

MKS-8442G Frame Memory Board

The MKS-8442G frame memory board is an optional board for the MVS-8000G and the MVS-8000GSF production switcher systems. By installing the MKS-8440G, the MVS-8000G Series can store 1030 frames of HD images. Images can either be stored separately or paired for video/key operation.

Applicable Models

MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Digital Video Switchers & Accessories

MKS-8450G Format Converter Board

The MKS-8450G interface card offers 8 channels of input format conversion and two channels of output conversion. Up to two cards can be installed in an MVS-8000G/GSF processor. Note on MVS-8000GSF only two output conversion channels are available.

Applicable Models

MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

BZS-8250 Simple p/p software

Additional simple PGM/PST function for the MVS-8000G Series switcher system.

The BZS-8250 software allows the addition of a simple PGM/PST function to the MVS-8000G Series Switcher system to configure it as a 1.5/2.5/3.5 M/E system. It can also be used to add two DSKs but without the simple PGM/PST function.

•Offers a simple PGM/PST function; BKGD A/B buses, two simple DSK and FTB •Provides transition type; CUT, MIX, WIPE, SUPER MIX, NAM and PRESET COLOUR MIX •Provides Transition Preview function •DSK supports Luminance Key and Linear Key •DSK provides modifiers such as CLEAN MODE, KEY EDGE POSITION, INVERT, SHOW KEY, AUTO/SELF/SPLIT mode •FTB (FADE TO BLACK) function •Memory system for WIPE SNAPSHOT, KEY SNAPSHOT, SNAPSHOT, EFFECT •Controlled from PGM/PST control area on the CCP-8000/9000 Series control panel •When the BZS-8250 is used to add DSKs (DSK Mode), the additional DSKs are operated from MKS-8034ADK or MKS-8032A

Applicable Models

MVS-8000GSF Multi-Format Switcher Processor MVS-8000G Multi-Format Switcher Processor

Digital Video Switchers & Accessories

BZS-9250 Simple p/p software

Additional simple PGM/PST function for the DVS-9000 Series switcher system.

The BZS-9250 software allows the addition of a simple PGM/PST function to the DVS-9000 Series Switcher system to configure it as a 1.5/2.5/3.5 M/E system. It can also be used to add two DSKs but without the simple PGM/PST function.

•Offers a simple PGM/PST function; BKGD A/B buses, two simple DSK and FTB •Provides transition type; CUT, MIX, WIPE, SUPER MIX, NAM and PRESET COLOUR MIX •Provides Transition Preview function •DSK supports Luminance Key and Linear Key •DSK provides modifiers such as CLEAN MODE, KEY EDGE POSITION, INVERT, SHOW KEY, AUTO/SELF/SPLIT mode •FTB (FADE TO BLACK) function •Memory system for WIPE SNAPSHOT, KEY SNAPSHOT, SNAPSHOT, EFFECT •Controlled from PGM/PST control area on the CCP-8000/9000 Series control panel •When the BZS-9250 is used to add DSKs (DSK Mode), the additional DSKs are operated from MKS-8034ADK or MKS-8032A

Applicable Models

DVS-9000SF Production Switcher Processor DVS-9000 Production Switcher Processor

BZS-8200 Simple p/p software

Additional software to allow split ME operation on MVS-8000A/G series switchers. This software effectively doubles your ME capability from a single switcher system and gives the operator the ability to produce two independent programmes from a single ME bank.

Applicable Models

MVS-8000G Multi-format production switcher MVS-8000GSF Multi-format production switcher

BZPS-8000 System Management Software

The BZPS-8000 running on a PC enables integrated management of all Sony live production products configured around and networked to the MVS/DVS Series Switchers. A software package for client and server PC.

Features

•System data backup/restore — Setups, effects, images, etc. for MVS/DVS, PFV-SP and Router can be backup and restored at a time. Multiple system data can be handled easily per On-air program, per Event, per Operating clue, etc. •File server — Individual file transfer control. File accessing from MVS/DVS panel. •Status Monitoring/SNMP IF — System status (detected error per equipment) can be displayed on status menu. Convert MVS/DVS status to SNMP for Maintenance Manager. •Server and Client — Server function is fundamental part: Gateway, File Server, SNMP IF, etc. Client function is user interface to operate System manager functions •Launcher — There will be some plug-in application software available: MVS/DVS Setup, PFV-SP Setup, Router Setup, etc.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

The required PC specifications for System Manager Server and Client as follows

Server PC

Model:

Dell PowerEdge 350

CPU:

Celeron® 850 MHz or greater

40 GB or more

Memory:

512 MB or more

Red Hat Linux 7.2

* At the initial setup of PC, VGA Display and PS/2 Keyboard will be required. However, these are no longer required after the initial setup. RS-232C remote access from the other PC can update the software.

* Dell PC Model is current and may be replaced with successor sooner or later. So, we will keep you updated if some changes happen.

Client PC

CPU:

1 GHz or faster

Memory:

256 MB or more

Ethernet:

100Base-Tx

Windows 2000 Professional

* The target schedule to support Windows

XP will be informed later.

BZPS-8001 Switcher Setup Software

The BZPS-8001 for a client PC of the System Manager allows remote setup and control of MVS/DVS Series switchers. A software package for online software and offline software for a client PC.

Features

•Online — Setup MVS/DVS panel menu can be operated on PC remotely (online). •Offline Setup - MVS/DVS setup can be created on PC anytime/anywhere (offline). Source assignment, name settings, etc. on Windows circumstance. •Remote Diagnosis — Remotely control MVS/DVS diagnosis.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

HK-PSU04 Power supply unit

Applicable Models

MVE-9000 Multi-format DME Processor DVS-9000SF Production Switcher Processor DVS-9000 Production Switcher Processor MVS-8000GSF Multi-Format Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000Multi-Format Switcher Processor

Supplied Accessories

Installation Guide

Specifications Power requirements

General

100 to 240 V AC ± 10%, 50/60 Hz Output power 12 V DC ±0.5V Power consumption 10 to 5 A Secondary power supply Max. 60 A Dimensions (W x H x D) 94 x 83 x 396 mm (3 ¾ x 3 ¾ x 15 % inches) Mass

Approx. 3 kg (6 lb 9 oz)

MVE-8000A Multi-Format DME Processor

The MVE-8000A is a multi-format DME processor for the MVS-8000G Series Multi-Format Production Switcher System with its frame size only 2 RU. The MVE-8000A provides a wide variety of effects such as 2D/3D and linear/non-linear transforms in both HDTV and SDTV video formats, which can be easily switched from switcher control panel without swapping the boards. The MVE-8000A is integrated to the MVS-8000G Series switcher processor via dedicated cables without consuming the SDI inputs and outputs on the switcher processor. In conjunction with the MVE-8000A, the MVS-8000G Series system allows DME- Wipes, Processed Key, and a wide variety of attractive effects, which can be controlled from the control panel as if they were a part of the switcher functions.





Applicable Models

MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Supplied Accessories

Operation Manual (1) Installation Manual (1) Switcher VIdeo Interface Cable (3 m) (2)

Optional Accessories

MKE-8021A Input/Output Board (SDI) MKE-8020A MVS Interface Board MKE-8040A Effects Board (MVE-8000A) HK-PSU02 Power Supply Unit

Specifications

General

Power requirements: 100 - 240 V ± 10%, 50/60 Hz Power consumption: 2.5 to 1.0 A Dimensions (W/H/D): 440 mm x 87.5 mm x 520 mm (17 3/8 x 3 1/2 x 20 1/2 inches) (without projection) Mass: 16 kg (35 lb 4 oz) (fully loaded) Operation Temperature: + 5 °C to + 40 °C (+ 41 °F to + 104 °F) Operating humidity: 10% to 90% (non-condensing) Inputs/outputs MKE-8020A: MDR 68-pin x 2 (inputs/outputs: 2 CH x 2). LVDS MKF-8021A: Video inputs-Video/Key: BNC x 8, SDI Video outputs-Video/Key: BNC x 8, SDI Monitor outputs: BNC x 4, SDI BNC x 2, 75 Ω with loop-through output Analogue black burst or HD tri-level sync System interface Control LAN: RJ-45 x 1, 100BASE-TX DATA LAN: RJ-45 x 1, 100BASE-TX Editor: D-sub 9-pin x 4, RS-422A

D-sub 25-pin, TTL level inputs x 8, relay contact outputs x 4, open collector

outputs x 4

MKE-8020A MVS Interface Board

The MKE-8020A is an optional board for the MVE-8000A Multi Format DME Processor. The MVE-8000A requires the MKE-8020A as an interface board to the MVS-8000G series production switcher system.

Applicable Models

MVE-8000A Multi-Format DME Processor

Supplied Accessories

Operation Manual (1)
Dedicated Interface Cable (2)
Installation Guide (1)

Specifications

Video inputs/Video outputs
MVS interface:
MDR 68-pin x 2 (inputs/outputs:
2 CH x 2), LVDS

MKE-8021A Input/Output Board (SDI)

The MKE-8021A is an optional board for the MVE-8000A Multi Format DME Processor. The MKE-8021A has input and output connectors for SDI signals and BNC connectors for monitoring.

Applicable Models

MVE-8000A Multi-Format DME Processor

Supplied Accessories

Operation Manual (1) Installation Guide (1)

Specifications

Video inputs
Video/Key: BNC connector x 8, SDI
Video outputs
Video/Key: BNC connector x 8, SDI
Monitor outputs:
BNC connector x 4, SDI

MKE-8040A Effects Board (MVE-8000A)

The MKE-8040A Effects Board provides excellent 2-channel effects to the MVE-8000A Multi Format DME Processor. The MKE-8040A provides the following stunning effects: Beveled Edge, Glow, Digital SKETCH., Metal, and Mask. Its multi-format capabilities make it suited to both content creation in high-end production and post-production. The MKE-8040A comprises a single board.

Applicable Models

MVE-8000A Multi-Format DME Processor

MVE-9000 Multi-format DME Processor

The MVE-9000 provides high picture quality and a rich set of features for the creation of stunning special effects in live environments and post-production.

Features

•High-quality DME •HD/SD multi-format capability •HDTV: 1080i/50, 59.94, 60, 1080p/23.976, 24, 25, 29.97, 30. 720p/59.94 •SDTV: 480i/59.94. 576i/50 •A variety of effects •3D Linear/Nonlinear, Sparkle, Input Freeze, Defocus, Key Border, Beveled Edge, Glow, Sketch, Metal, Mask, Light, Shadow, Trail and more •Up to four channels of Combine with Intersect and Dim/Fade •Effect data compatible with the MVE-8000 •Y/C/K 10-bit processing •Field/Frame-based processing •High-performance pixel-based anti-alias filter •High-quality multi-point interpolation •Up to four channels can be configured on a channel basis . One of the following video interface boards can be installed - The MKE-9021M for standalone operations or MKE-9020M for dedicated connection to the MVS Series switcher •4U high, less than 15 kg in weight, and less than 500 W consumed when fully loaded with its option boards •Redundant power supply HK-PSU04 can be installed •Four RS-422 interfaces for control from external editor •Each channel can be independently controlled •GPI and Tally interface •100Base-TX network interfaces allow the transfer of files (image, effect, setup, etc.) between equipment connected to the MVS Data LAN, and real time control via the MVS Control LAN



Applicable Models

MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Supplied Accessories

Operation Manual (1) Installation Manual (1) 75 Ω Terminator (1) Mounting Bracket (1) Support Angle (1) Screw (1)

Optional Accessories

BZDM-9050 Texture Lighting Software

Optional Boards MKE-9020M MVS Interface Board Set for the

MVE-9000
MKE-9021M Input/Output Board Set for the
MVE-9000
MKE-9040M Advanced Effects Board for the

MVE-9000

HK-PSU04 Power Supply Unit

Specifications

General

Power requirement:

100 V to 240 V ±10% 50/60 Hz

Power consumption:

500 VA

Operating temperature:

5 °C to 40°C (41 °F to 104 °F)

Storage temperature:

-20 °C to + 60 °C (-4 °F to + 140 °F)

Operating humidity:

10% to 90% RH

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inches)
   Mass:
      Approx. 20 kg (44 lb 1 oz)
   Video inputs (MKE-9021M)
         Video/Key:
            BNC-type connectors x 8
         Ext Video IN:
            BNC-type connectors x 4
      BNC type connectors x 2, 75 \Omega with
      loop-through output
      Analogue black burst or HD tri-level sync
Outputs
   Video outputs (MKS-9021M)
      SDI
         Video/Key:
            BNC-type connectors x 8
         Monitor Out:
            BNC-type connectors x 4
   Video inputs/Video outputs (MKE-9020M)
```

482 x 194 x 520 mm (19 x 7 3/4 x 20 1/2

Dimensions (W x H x D):

MVS interface

LVDS

Control LAN:

RJ-45 x 1, 100Base-TX

RJ-45 x 1, 100Base-TX

D-SUB 9-pin x 4, RS-422

Control signals

Data LAN:

Remote:

GPI:

D-SUB 25-pin x 2, dry contact or open collector inputs x 16, relay contact outputs x 8, open collector outputs x 8

MDR 68-pin x 2 (inputs/outputs: 2 CH x 2),

MKE-9020M MVS Interface Board Set for the MVE-9000

- Provides dedicated Video and Key I/O, SDI External video inputs per channel, and 4 SDI monitor outputs
- Provides a 68-pin multi-connector cables to connect to the MVS-8000 Series switcher

Applicable Models

MVS-8000GSF Multi-Format Switcher Processor MVS-8000G Multi-Format Switcher Processor MVE-9000 Multi-format DME Processor

Supplied Accessories

Operation and Installation Guide

Specifications

Video inputs/Video outputs

MVS interface

MDR 68-pin x 2

(inputs/outputs: 2 CH x 2), LVDS

MKE-9021M Input/Output Board Set for the MVE-9000

- •Provides SDI interfaces for stand alone operations
- Provides Video, Key, and External video inputs per channel, Video and Key outputs per channel and
 4 monitor outputs *Provides SDI connectors to connect
- to the MVS-8000 Series switcher

Applicable Models

MVS-8000GSF Multi-Format Switcher Processor MVS-8000G Multi-Format Switcher Processor MVE-9000 Multi-format DME Processor

Supplied Accessories

Operation and Installation Guide

Specifications

Video inputs/Video outputs

Video/Key

BNC-type connectors x 8, SDI

MKE-9040M Advanced Effects Board for the MVE-9000

•Provides one channel of DME effects; 2D/3D Transform including non-linear effects, sketch, beveled edge and more •Up to four MKE-9040M boards can be installed into an MVE-9000 unit on a channel basis

Applicable Models

MVS-8000GSF Multi-Format Switcher Processor MVS-8000G Multi-Format Switcher Processor MVE-9000 Multi-format DME Processor

Supplied Accessories

Operation and Installation Guide

BZDM-9050 Texture Lighting Software

Texture Lighting Software for the Sony Multi-format DME processor MVE-9000

Features

The BZDM-9050 is Texture Lighting Software for use with the MVE-9000 Multi-format DME processor. Its texture lighting function enables you to map a texture pattern onto a DME effect using the spotlight function. The Real Lighting Function can add more realistic lighting to several Non-linear effect patterns. Up to four light sources are available per DME channel. With its Test Sphere Function, the position and brightness of light sources can be confirmed with ease.

*V3.0 or later software is required in the MVE-9000 to install the BZDM-9050 Texture Lighting Software.

Applicable Models

MVE-9000 Multi-format DME Processor

MKS-8700 Device Control Unit

The MKS-8700 is a device control unit for MVS-8000 Series in conjunction with MKS-8701 Tally/GPI Board and/or MKS-8702 Serial Interface Board. Up to five boards can be installed. One MKS-8700 can provide Tally/GPI port expansion in 3-port increments up to 15 ports (18 channels per one port) in combination with the MKS-8701. It can also provide RS-422A port expansion in 6-port increments up to 30 ports in combination with the MKS-8702.



Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Supplied Accessories

Operation Manual (1) Installation Manual (1) 75 Ω terminator (1) Redundant power supply unit (1)

Optional Boards

MKS-8701 Tally/GPI Output Board MKS-8702 Serial Interface Board

Specifications General

Power-

Power Requirement 100-240 V AC +/- 10% 50/60 Hz Power Consumption max. 250 W Dimensions (W x H x D, without projection): 482 mm x 132 mm x 520 mm (19 x 5 1/4 x 20 1/2 inches)

Mass:

18 kg (39 lb 10 oz) (Fully Loaded) Operation Temperature:

+5 °C to +40 °C (+41°F to +104°F)

Relative Humidity:

Up to 90% (Non-Condensing)

Reference

Reference Input:

BNC connector x 2, Loop-through HD Tri-level Sync (HDTV only) or Analogue Black Burst or Sync

System Interface

Peripheral LAN:

RJ-45, 100BASE-TX

Serial Tally 1:

D-sub 9-pin, RS-422A

Serial Tally 2:

D-sub 9-pin, RS-422A

TALLY/GPI * :

D-sub 37-pin, relay contact outputs 18-ch up to 15 ports in steps of 3 ports in a frame

REMOTE

D-sub 9-pin, RS-422A, various protocols, up to 30 ports in steps of 6 ports in a frame

TALLY/GPI and REMOTE ports are alternatively installed. Mixed configuration of TALLY/GPI and REMOTE ports are possible.

MKS-8701 Tally/GPI Output Board

The MKS-8701 is a tally/GPI output board for MVS-8000 Series in conjunction with MKS-8700 Device Control Unit and/or MKS-8702 Serial Interface Board. Up to five boards can be installed. One MKS-8700 can provide Tally/GPI port expansion in 3-port increments up to 15 ports (18 channels per one port) in combination with the MKS-8701. It can also provide RS-422A port expansion in 6-port increments up to 30 ports in combination with the MKS-8702.

Applicable Models

MKS-8700 Device Control Unit

MKS-8702 Serial Interface Board

The MKS-8702 is a serial interface board for MVS-8000 Series in conjunction with MKS-8700 Device Control Unit and/or MKS-8701 Tally/GPI Interface Board. Up to five boards can be installed. One MKS-8700 can provide RS-422A port expansion in 6-port increments up to 30 ports in combination with the MKS-8702. It can also provide Tally/GPI port expansion in 3-port increments up to 15 ports (18 channels per one port) in combination with the MKS-8701.

Applicable Models

MKS-8700 Device Control Unit

MKS-2700 Device Control Unit

The MKS-2700 Device Control Unit is a compact Device Control Unit for the MVS-8000G series, the DVS-9000 series, and the MFS-2000 production switcher system with its size 1RU. Redundant power supply is supported by using the optional HK-PSU01 Power Supply Unit. The MKS-2700 is suitable for small-scale systems with affordable price.



Applicable Models

MFS-2000 Multi-Format Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor DVS-9000 Switcher Processor DVS-9000SF Switcher Processor

Optional Accessories

HK-PSU01 Power Supply Unit

9.8 kg (21 lb 10 oz)

Specifications

General

Power consumption:
0.7 to 0.5 A

Operating temperature:
5 °C to 40 °C (41 °F to 104 °F)

Storage temperature:
-20 °C to +60 °C (-4 °F to +140 °F)

Operation humidity:
10% to 90% RH

Dimensions (W x H x D):
440 x 43.6 x 520 mm (17 3/8 x 1 3/4 x 20 1/2 inches)

Mass:

Control signals

Preipheral LAN:
RJ-45 x 1, 100BASE-TX
TALLY/GPI inputs:
D-sub 37-pin x 1, TTL level inputs x 34
TALLY/GPI outputs:
D-sub 37-pin x 2, TTL level inputs x 18
each
REMOTE:
D-sub 9-pin x 6, RS-422A, various
protocols

MKS-8010A System Control Unit

The MKS-8010A System Control Unit works as the central control over the CCP-8000Series Center Control Panel. The system control unit provides control functions for the center control panel, supplies power to various panel modules, and stores the whole setup data, effects data, snapshot data and still images.



Features

•The MKS-8010A is a compact system control unit with its size compact 1RU •Redundant power supply is supported by using the optional HK-PSU02 Power Supply Unit

Optional Accessories

HK-PSU02 Power Supply Unit SWC-5002 Control Panel Cable SWC-5005 Control Panel Cable SWC-5010 Control Panel Cable MKS-8075 Extension Adaptor MKS-8076 Memory Card/USB Adaptor

Specifications

General

Power requirements:
100 to 240 V AC +/- 10%, 50/60 Hz
Power consumption:
Max. 250 W (incl. Center Control Panel,
Aux Panel and Menu Panel)
Dimensions (W x H x D, without projection):
440 x 43.6 x 520 mm (17 3/8 x 1 3/4 x
20 1/2 inches)

Mass:

11.5 kg (25 lb 6 oz)
Operating temperature:
5 to 40 °C (41to +104°F)
Operating humidity:
10% to 90% (Non-condensing)

nputs

Reference Input: BNC connector x 2, Loop-through HD Tri-level Sync (HDTV only) or Analogue Black Burst or Sync

System interface Control LAN:

Data LAN: RJ-45, 100BASE-TX Peripheral LAN: RJ-45, 100BASE-TX

RJ-45, 100BASE-TX

GPI

Device:

USB Type A

D-sub 25-pin, TTL level inputs x 8 / relay contact outputs x 4 / open collector outputs x 4 Remote:
BNC connector x 1, S-BUS
LTC:
BNC connector x 1

MKS-8011A Menu Panel

A menu panel is used to select different types of effects, such as transitions, keys, wipes, DME (digital multi effect) functions, etc. and to set up the operational mode and the system setting of peripherals. A 10.4-inch, touch-sensitive colour LCD screen is adopted for the menu panel to give intuitive and speedy operation.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MKS-9011 1 M/E Control Panel MKS-9012 2 M/E Control Panel MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 424 x 220 mm (5 RU) (16 3/4 x 8 3/4 inches)



MKS-8013A 32 Aux Bus Module

The auxiliary module is used to select sources for monitoring and recording, and also to select material to the frame memory and DME. By changing their operational mode, these buses can then select the destinations and sources of a routing switcher. Each auxiliary bus has two crosspoint button rows, the allocation of which can be set independently. For instance, the DME video can be on the upper row and the DME key on the lower row, alternatively both Shifted and Non-shifted sources can be displayed at the same time.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 750 x 132 mm (3 RU) (29 5/8 x 5 1/4 inches)

MKS-8014A 24 Aux Bus Module

The auxiliary bus module is used to select sources for monitoring and recording, and also to select material to the frame memory and DME. By changing their operational mode, these buses can then select the destinations and sources of a routing switcher. Each auxiliary bus has two crosspoint button rows, the allocation of which can be set independently. For instance, the DME video can be on the upper row and the DME key on the lower row, alternatively both Shifted and Non-shifted sources can be displayed at the same time.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

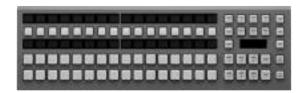
Specifications General

Dimensions (W x H): 598 x 132 mm (3 RU) (23 1/2 x 5 1/4 inches)



MKS-8015A 16 Aux Bus Module

The auxiliary bus module is used to select sources for monitoring and recording, and also to select material to the frame memory and DME. By changing their operational mode, these buses can then select the destinations and sources of a routing switcher. Each auxiliary bus has two crosspoint button rows, the allocation of which can be set independently. For instance, the DME video can be on the upper row and the DME key on the lower row, alternatively both Shifted and Non-shifted sources can be displayed at the same time.



Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 444 x 132 mm (3RU) (17 1/2 x 5 1/4 inches)

MKS-8017A 32 Crosspoint Module

The Crosspoint module is used to select background and key sources for each M/E or PGM/PST bank. These modules provide two rows of key source selection buttons, plus a source name display row and two background source selection rows. On the key source selection rows, Keys 1/3 and Keys 2/4 can be interchanged. On the Background rows, sources can also be selected from the Utility 1/2 busses. Three-colour, backlit LCD displays are used on the source name display row. These enable text and graphics to be displayed in any one of three colours for easy user identification of source type.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 750 x 132 mm (3 RU) (29 5/8 x 5 1/4 inches)



MKS-8018A 24 Crosspoint Module

The crosspoint module is used to select background and key sources for each M/E or PGM/PST bank. These modules provide two rows of key source selection buttons, plus a source name display row and two background source selection rows. On the key source selection rows, Keys 1/3 and Keys 2/4 can be interchanged. On the Background rows, sources can also be selected from the Utility 1/2 bus. Three-colour, backlit LCD displays are used on the source name display row. These enable text and graphics to be displayed in any one of three colours for easy user identification of source type.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 598 x 132 mm (3 RU) (23 1/2 x 5 1/4 inches)



MKS-8019A 16 Crosspoint Module

The crosspoint module is used to select background and key sources for each M/E or PGM/PST bank. These modules provide two rows of key source selection buttons, plus a source name display row and two background source selection rows. On the key source selection rows, Keys 1/3 and Keys 2/4 can be interchanged. On the Background rows, sources can also be selected from the Utility 1/2 bus. Three-colour, backlit LCD displays are used on the source name display row. These enable text and graphics to be displayed in any one of three colours for easy user identification of source type.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 444 x 132 mm (3 RU) (17 1/2 x 5 1/4 inches)



MKS-8020A Standard Transition Module

The standard transition module is used to cut or transition images on each M/E or PGM/PST bank. It consists of a standard transition area equipped with fader lever and four additional dedicated key transition areas, any of which can be used independently for transition selection and execution. This standard transition area allows priority setting of all four keys with transition preview, while the dedicated key transition area provides buttons for key snapshot store and recall operations.



Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 293 x 132 mm (3 RU) (11 5/8 x 5 1/4 inches)

MKS-8024A Flexipad Module

The Flexipad Module has 12 Memory Recall buttons, each with a three-colour backlit LCD. These LCDs provide a text/graphic display showing the effects stored for each operational mode. This module is used in combination with Wipe and DME Wipe, and operations such as M/E or PGM/PST. It can also be used for Effects, Shot Box and Macros, and even has an undo capability.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications General

Dimensions (W x H): 147 x 132 mm (3 RU) (5 7/8 x 5 1/4 inches)



MKS-8025MS Memory Stick /USB Module

The MKS-8025MS Memory Stick/USB module is used to store and load data such as snapshots, effects, set-up data, images, etc. from Memory Stick. It provides a slot for a Memory Stick and has three USB connectors. These connectors provide interfaces for other types of storage media and for menu operating devices such as a mouse, keyboard, and pen/tablet.

*The MKS-8025MS works exclusively with MKS-8010A System Control Unit

Specifications

General

Dimensions (W x H): 220 x 132 mm (3 RU) (8 3/4 x 5 1/4 inches)



MKS-8026A 10 Keypad Module

The 10 keypad module is used to select, store, recall and execute snapshots or effects, and recall and execute Shot Box and Macros. It can also be used to input transition rates. It provides a 12-digit alphanumeric display to show reference region names plus register numbers, depending on its operational mode.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 220 x 132 mm (3 RU) (8 3/4 x 5 1/4 inches)



MKS-8027A Compact Transition Right Module

The compact 1/2 rack-width transition module fits in a small-scale control panel for edit suits require less space. The module is based on the design of the MKS-8020A Standard Transition Module with simple key transition operations.

Features

•Size reduced to 1/2 rack-width to fit in a compact switcher system •Uses the same design as the MKS-8020A Standard Transition Module for common transition part •Key transition part consists of transition button •Using the MKS-8027A and MKS-8028A for adjacent M/Es, the fader levers do not interfere with each other

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General



MKS-8028A Compact Transition Left Module

The compact 1/2 rack-width transition module fits in a small-scale control panel for edit suits require less space. The module is based on the design of the MKS-8020A Standard Transition Module with simple key transition operations.

Features

•Size reduced to 1/2 rack-width to fit in a compact switcher system •Uses the same design as the MKS-8020A Standard Transition Module for common transition part •Key transition part consists of transition button •Using the MKS-8027A and MKS-8028A for adjacent M/Es, the fader levers do not interfere with each other

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications General

Dimensions (W x H): 220 x 132 mm (3 RU) (8 3/4 x 5 1/4 inches)



MKS-8030A Key Frame Module

The key frame module is used to set and edit keyframes and to execute effects. It consists of an effects execution block and a keyframe setting and editing block. The effects execution block is equipped with a fader lever for manual execution of effects.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General



MKS-8031AJS Joy Stick Module

The joy stick module has identical functionality and are used to position wipes, the 3D Transform of the DME, and also to control tape and disc recorder functions. The parameters of control knobs 1-3 on the main menu panel can also be adjusted using the joy stick.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 220 x 132 mm (3 RU) (8 3/4 x 5 1/4 inches)



MKS-8031ATB Track Ball Module

The track ball module has identical functionality and are used to position wipes, the 3D Transform of the DME, and also to control tape and disc recorder functions. The parameters of control knobs 1-3 on the main menu panel can also be adjusted using the track ball.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MKS-9011 1 M/E Control Panel MKS-9012 2 M/E Control Panel

Specifications General



MKS-8032A DSK Fader Module

The DSK fader module is used to set up and execute transitions of the four keyers on the PGM/PST bank. A fader lever is included to execute manual transitions of one or more keyers.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MKS-9011 1 M/E Control Panel MKS-9012 2 M/E Control Panel MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 220 x 132 mm (3RU) (8 3/4 x 5 1/4 inches)



MKS-8033A Utility/Shotbox Module

The 24 memory recall buttons of this module have three-colour, backlit LCDs to display the selection of effects and functions in text or graphics. Any Shot Box or Macro, plus a variety of utility functions, can be allocated to the module and any of these preset effects and functions can be instantly executed at the press of a single button. The delegation of all 24 memory recall buttons can be collectively changed at any one time by pressing the bank buttons.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MKS-9011 1 M/E Control Panel MKS-9012 2 M/E Control Panel MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General



MKS-8034ADK DSK/FTB Module

The DSK/FTB module is used to execute Fade-To-Black, and to conduct preview switching using the Edit Preview BUS. Control of externally connected DSKs (PFV-SP Series) is available from the DSK/FTB module.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 147 x 132 mm (3 RU) (5 7/8 x 5 1/4 inches)



MKS-8034AFB FTB Module

The FTB module is used to execute Fade-To-Black, and to conduct preview switching using the Edit Preview Bus. Control of externally connected DSKs (PFV-SP Series) is available from the DSK/FTB module.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor

Specifications General

Dimensions (W x H): 147 x 132 mm (3 RU) (5 7/8 x 5 1/4 inches)



MKS-8035A Key Control Module

The key control module is used to adjust and modify each keyer on any of the M/E or PGM/PST banks. It is also used to assign the DME keyers. The DME allocation block not only displays the current status of the allocation of each DME channel or which key is on-air, but also outputs desired channels to monitors. It can also change the allocated channel to another keyer in a mandatory way.

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MKS-9011 1 M/E Control Panel MKS-9012 2 M/E Control Panel MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 220 x 132 mm (3 RU) (8 3/4 x 5 1/4 inches)



MKS-8036A Device Control Module

The device control module offers VTR style control of all connected VTR, Servers and PII bus devices. Using the jog/shuttle dial allows operators to easily locate and cue-up the remote devices. It is also possible to jog through an internal frame memory clip using this module.

Supplied Accessories

Operation and Installation Guide (supplied only when the product is purchased separetely) (1)

Specifications

General

Power consumtion
Max. 1 A
Dimensions (W x H):
220 x 132 mm (8 3/4 x 5 1/4 inches)
Mass

Approx. 0.8 kg (1 lb 12 oz)

MKS-8040 Blank Panel

Features

•1/3 rack width size blank panel

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 147 x 132 mm (3 RU) (5 7/8 x 5 1/4 inches)



Digital Video Switchers & Accessories

MKS-8041 Blank Panel

Features

•1/2 rack width size blank panel

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MKS-9011 1 M/E Control Panel MKS-9012 2 M/E Control Panel MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 220 mm x 132 mm (3 RU) (8 3/4 x 5 1/4 inches)



MKS-8042 1/6 width size blank panel

Applicable Models

MKS-8041 Blank Panel



MKS-8075 Extension Adaptor

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MKS-8010A System Control Unit MKS-9011 1 M/E Control Panel MKS-9012 2 M/E Control Panel MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

MKS-8076 Memory Card/USB Adaptor

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MKS-8010A System Control Unit MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Specifications

General

Dimensions (W x H): 220 mm x 132 (3 RU) (8 3/4 x 5 1/4 inches)

MKS-8080 Aux Bus Remote Panel

Features

•Compact 1 RU design •Single destination •32 source select buttons and four re-entry buttons •Provides the same button arrangements as those on the CCP-8000/CCP-9000 Series Center Control Panel for intuitive operation



Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Supplied Accessories

Operational Manual (1) T-Bridge and 75 Ω Terminator (1)

Specifications

General

Power requirements: 100 to 240 V AC, 50/60 Hz
Power consumption: 10 W
Operating temperature: 5 to 40 °C (41to 104 °F)
Storage temperature: - 20 to 60 °C (- 4 to 140 °F)
Operating humidity: 10 to 90%
Dimensions (W x H x D): 440 x 44 x 116.5 mm (17 3/8 x 1 3/4 x 4 5/8 inches)
Mass:
Approx. 1.4 kg (3 lb)

Remote 1 S-BUS

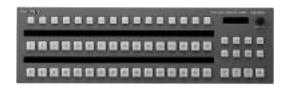
Connector type:

BNC connector (1) Data transfer method: BI-PHASE SPACE Data transfer rate: 312 kb/s / 1250 kb/s Remote 2 RS-422A Connector type: D-sub 9-pin female (1) Data transfer method: Conforming to the EIA RS-422A Data transfer rate: 38 4 kh/s Remote 3 RS-232C Connector type: D-sub 9-pin male (1) Data transfer method: 8 bits, Non parity, No check Data transfer rate: 38.4 kb/s Signal transfer distance: 500 m (75 Ω coaxial cable, BELDEN 8281 or equivalent)

MKS-8082 Aux Bus Remote Panel

Features

•3 RU height •Assignable 16 delegation buttons for immediate access to multiple destinations •32 source select buttons and four re-entry buttons • Provides the same button sizes as those on the CCP-8000/CCP-9000 Series Center Control Panel to offer same touch and feel Provides source name display



Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Supplied Accessories

Operational Manual (1) T-Bridge and 75 Ω Terminator (1)

Specifications

General

Power requirements: 100 to 240 V AC, 50/60 Hz Power consumption: 25 W Operating temperature: 5 to 40 °C (41 to 104 °F) Storage temperature: - 20 to 60 °C (4 to 140 °F) Operating humidity: 10 to 90% Dimensions (W /H /D): 440 x 132 x 120 mm (17 3/8 x 5 1/4 x 4 3/4 inches) Mass: Approx. 2.6 kg (5 lb 12 oz) Remote 1 S-BUS Connector type: BNC connector (1)

Remote

Data transfer method: BI-PHASE SPACE Data transfer rate: 312 kb/s / 1250 kb/s Remote 2 RS-422A Connector type: D-sub 9-pin female (1) Data transfer method: Conforming to the EIA RS-422A Data transfer rate: 38.4 kb/s Remote 3 RS-232C Connector type: D-sub 9-pin male (1) Data transfer method: 8 bits, Non parity, No check Data transfer rate: 38.4 kb/s Signal transfer distance: 500 m (75 Ω coaxial cable, BELDEN

8281 or equivalent)

MKS-9011A 1 M/E Control Panel

The MKS-9011A allows the configuration of a compact 1 ME switcher system that offers the operational convenience and system performance. This compact control panel is well suited for use in small OB VANs and edit suites or as sub remote panels for the MVS-8000/DVS-9000 Series switchers.

Features

•19-inch rack width with 1 M/E, 12 crosspoint buttons, source name display and 1 Key bus row •Built-in SCU (System Control Unit) •Can be used with the MVS-8000 /DVS-9000 Series switchers •Can be used as a sub M/E remote panel for the MVS-8000/DVS-9000 Series switchers



Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSE Multi-Format Switcher Processor

Supplied Accessories

Menu Panel Stand Brackets (1) 75 Ω terminator (1) BNC T-bridge connector (1) Panel Cable (D-sub 50-pin, 0.4 m) (1) Switch cover (1) Key top removing tool (1) CD-R (*) (1) Operation manual (1) Installation manual (1) Maintenance manuar part I (1)

Optional Accessories

HK-PSU11 Redundant PSU SWC-5002 Control Panel Cable SWC-5005 Control Panel Cable SWC-5010 Control Panel Cable

Optional Panels

MKS-8011A Menu Panel MKS-8031ATB Track Ball Module MKS-8032A DSK Fader Module MKS-8033A Utility/Shotbox Module MKS-8035A Key Control Module MKS-8041A Blank Panel

Optional Peripherals

MKS-8075 Extension Adaptor (*) Software and User's guide (E/J)

Specifications General

Power requirement: 100 to 240 V AC, ±10% 50/60 Hz Power consumption: 0.9 to 0.4 A Operating temperature: 5 °C to 40 °C (41 °F to 104 °F) Storage temperature: -20 °C to +60 °C (-4 °F to +140 °F) Operating humidity: 10% to 90 % (Non-condensing)

Dimensions (W x H x D) Main Panel: 440 x 175 x 386 mm (17 3/8 x 7 x 15 1/4 inches) Menu Panel: 424 x 220 x 46 mm (16 3/4 x 8 3/4 x 1 13/16 inches) Mass Main Panel: 10 kg (22 lb) Menu Panel: 2.2 kg (4 lb 13 oz) Control LAN: RJ-45, 100Base-TX Data LAN:

Control

RJ-45, 100Base-TX Peripheral LAN: RJ-45, 100Base-TX D-SUB 25-pin, relay contact outputs x 4, open collector outputs x 4 BNC connector, S-BUS Device: USB type A Main Panel: D-sub 50-pin Menu Panel: D-sub 50-pin Ext Panel:

D-sub 50-pin

MKS-9012A 2 M/E Control Panel

The MKS-9012A allows the configuration of a compact 2 M/E switcher system that offers the operational convenience and system performance. This compact control panel is well suited for use in small OB VANs and edit suites or as sub remote panels for the MVS-8000/DVS-9000 Series switchers.

Features

•19-inch rack width with 2 M/E, 12 crosspoint buttons, source name display and 1 Key bus row •Built-in SCU (System Control Unit) •Can be used with the MVS-8000 /DVS-9000 Series switchers •Can be used as a sub M/E remote panel for the MVS-8000/DVS-9000 Series switchers



Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

Supplied Accessories

Menu Panel Stand Brackets (1) 75 Ω terminator (1) BNC T-bridge connector (1) Panel Cable (D-sub 50-pin, 0.4 m) (1) Switch cover (1) Key top removing tool (1) CD-R (*) (1) Operation manual (1) Installation manual (1) Maintenance manuar part I (1)

Optional Accessories

HK-PSU11 Redundant PSU SWC-5002 Control Panel Cable SWC-5005 Control Panel Cable SWC-5010 Control Panel Cable

Optional Panels

MKS-8011A Menu Panel MKS-8031ATB Track Ball Module MKS-8032A DSK Fader Module MKS-8033A Utility/Shotbox Module MKS-8035A Key Control Module MKS-8041A Blank Panel

Optional Peripherals

MKS-8075 Extension Adaptor
(*) Software and User's guide (E/J)

Specifications

Power requirement:

100 to 240 V AC, ±10% 50/60 Hz
Power consumption:

0.9 to 0.4 A
Operating temperature:

5 °C to 40 °C (41 °F to 104 °F)
Storage temperature:

-20 °C to +60 °C (-4 °F to +140 °F)
Operating humidity:

10% to 90 % (Non-condensing)

Dimensions (W x H x D) Main Panel 440 x 186.6 x 442 mm (17 3/8 x 7 3/8 x 17 1/2 inches) Menu Panel: 424 x 220 x 46 mm (16 3/4 x 8 3/4 x 1 13/16 inches) Mass Main Panel 11.5 kg (25 lb 5 oz) Menu Panel: 2.2 kg (4 lb 13 oz) Control Control LAN: R.J-45, 100Base-TX Data LAN: RJ-45, 100Base-TX Peripheral LAN: RJ-45, 100Base-TX D-SUB 25-pin, relay contact outputs x 4, open collector outputs x 4 Remote: BNC type, S-BUS Device USB type A Main Panel: D-sub 50-pin Menu Panel: D-sub 50-pin Ext Panel:

D-sub 50-pin

SWC-5002 Control Panel Cable

Features

•50-pin •2 m •MKS-8010A <--> CCP-8000 Series,

MKS-8011A, external panel modules

•MKS-9011/9012 <--> MKS-8011A, external panel modules

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MKS-8010A System Control Unit MKS-9011 1 M/E Control Panel MKS-9012 2 M/E Control Panel

SWC-5005 Control Panel Cable

Features

•50-pin •5 m •MKS-8010A <--> CCP-8000 Series, MKS-8011A, external panel modules

•MKS-9011/9012 <--> MKS-8011A, external panel modules

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MKS-8010A System Control Unit MKS-9011 1 M/E Control Panel MKS-9012 2 M/E Control Panel MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

SWC-5010 Control Panel Cable

Features

•50-pin •10 m •MKS-8010A <--> CCP-8000 Series,
MKS-8011A, external panel modules
•MKS-9011/9012 <--> MKS-8011A, external panel modules

Applicable Models

DVS-9000 Production Switcher Processor DVS-9000SF Production Switcher Processor MKS-8010A System Control Unit MKS-9011 1 M/E Control Panel MKS-9012 2 M/E Control Panel MVS-8000G Multi-Format Switcher Processor MVS-8000GSF Multi-Format Switcher Processor

MKS-2050 Editing Keyboard (MVS-8000A, DVS-9000, MFS-2000)

The MKS-2050 Editing Keyboard adds editing functions to the MVS-8000G series, the DVS-9000 series, and MFS-2000 production switcher systems by connecting the MKS-2050 to the MKS-8010A System Control Unit, the MKS-2010, the MKS-2015, or the MKS-2017 Control Panels. The MKS-8010A, the MKS-2010, the MKS-2015. and the MKS-2017 require the BZS-8050 Editing Control Software to be installed.

Supplied Accessories

User Guide (1) 15-pin 10m cable (1)



Optional Accessories

BZS-8050 Editing Control Software (MVS-8000A, DVS-9000, MFS-2000)

MKS-8050 Editing Keyboard (MVS-8000A, DVS-9000, MFS-2000)

The MKS-8050 Editing Keyboard adds editing functions to the MVS-8000G series, the DVS-9000 series, and MFS-2000 production switcher systems by connecting the MKS-8050 to the MKS-8010A System Control Unit, the MKS-2010, the MKS-2015, or the MKS-2017 Control Panels. The MKS-8010A, the MKS-2010, the MKS-2015, and the MKS-2017 require BZS-8050 Editing Control Software to be installed. The MKS-8050 is a QWERTY kevboard.

Supplied Accessories Optional Accessories

User Guide (1) 15-pin 10m cable (1) BZS-8050 Editing Control Software (MVS-8000A, DVS-9000, MFS-2000)



BZS-8050 Editing Control Software (MVS-8000A, DVS-9000, MFS-2000)

The BZS-8050 Editing Control Software adds editing functions to the MVS-8000G series, the DVS-9000 series, and MFS-2000 production switcher systems. The BZS-8050 requires to be installed to the MKS-8010A System Control Unit, the MKS-2010, the MKS-2015, or the MKS-2017 Control Panels. The MKS-8050 or the MKS-2050 Editing Keyboard is required.

Applicable Models

MKS-2050 Editing Keyboard (MVS-8000A, DVS-9000, MFS-2000) MKS-8050 Editing Keyboard (MVS-8000A, DVS-9000, MFS-2000)



SONY

Sony Creative Software

Vegas + DVD 298
Vegas Pro 8 301
Vegas Movie Studio Platinum 8 303
Cinescore
ACID Pro 6
Sound Forge 9 308
CD Architect 5.2

Vegas + DVD Production Suite

Professional HD Video, Audio and DVD creation

The Vegas™+DVD Production Suite combines Vegas 7, DVD Architect™ 4, and Dolby Digital® AC-3 encoding software to offer an integrated environment for all phases of video, audio, DVD, and broadcast production. A must for the professional media producer, this suite lets you edit and process DV, HDV, SD/HD-SDI, and all XDCAM formats in real time, fine-tune audio with unparalleled precision, and author surround sound, dual-layer DVDs.

Video Features

Improved HDV, SD/HD-SDI support XDCAM SD and HD import and export XDCAM Proxy Data support XDCAM iLink FAM and Network support XDCAM browser XDCAM Master to disc

Multitrack video editing on unlimited tracks

3D track motion

Keyframeable Bézier masks

Keyframeable transitions, filters, and track motion 3-wheel primary and secondary color correction filters Waveform, Vectorscope, Parade, and Histogram monitors

Real-time playback of effects, processes and transitions to external monitor

Credit rolls and text animation

Alpha channel support

Flash™ (.swf) format import

Support for any aspect ratio (4:3, 16:9, etc)

Supports multiple file formats and frame rates

24p DV support

Audio Features

Improved multi-processor support Broadcast Wave format multichannel support AAF track volume and pan info support

Cinescore plug-in support

VST plug-in effect support

Tape-style audio scrubbing

Audio recording, editing, and mixing on unlimited tracks

24-bit/192 kHz audio support

5.1 surround mixing tools

On-the-fly punch-in recording

Auto-input record monitoring

5.1 audio plug-in support for the master bus

Film-style 5.1 surround panning

Downmix monitoring

DirectX® plug-in effects automation

ACID™ loop properties support

ASIO driver support

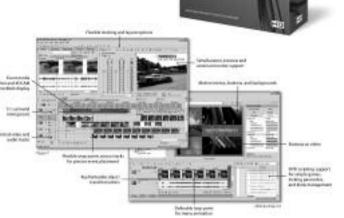
Keyboard event pitch shifting

Fader automation

32 assignable effects and 26 Master and Aux outputs

Bus-to-bus routing

Master, auxiliary, and effects bus tracks



ringas+DWD

Editing/Workflow Features

Save and recall window layouts Flexible window docking

Support for XDCAM essence markers

Envelope brush "painting"

Improved project copy and trim operations

Improved multiprocessor rendering

System-wide media management

AAF Import/Export

A/V synchronization detect and repair

Real-time nondestructive editing

Split-screen A/B previewing

Simple drag-and-drop operations

Network rendering

Envelope automation recording

High Definition editing and output

Searchable Media Pool bins

Media subclips

Trimmer window

Real-time A/V event reverse

Dual monitor support

Customizable keyboard mapping

Dual processor DV rendering support

Keyboard trimming and event shuffling

Edit on 23.976, native 24, 25, 29.97 or 30 fps timelines

Capture/Export/Hardware Features

Export directly to PSP

AVC/AAC support

MPEG-2, Insert I-Frame at markers

ATRAC 3 input and output

Import from DVD camcorder disc

SDI deck insert editing per channel

Render to mxf for XDCAM

Blackmagic Design DeckLink™ board support

External control surface support

Advanced streaming media tools

Application scripting for task automation

Subtitle time/text export to DVD Architect software

Windows Media™ 9 Series support, including surround encoding

RealVideo™ 9 support

QuickTime® format support

VideoCD and multimedia CD burning

Red Book audio CD production

EDL export

MPEG-1&2 support

Supports Windows Media® and RealMedia® commands

Sony DSR-DU1 and DSR-DR1000 disc recorder support

J-H3 HDCAM player support for DV downconverts

3:2 pulldown removal from DV .AVI files

Exports chapter markers and subtitles to DVD Architect™ 4 software

DVD Architect 4 Features

General Features

Scripting support

Random playlist playback

Parental control

Cinescore plug-in integration

Photoshop® (PSD) layer support

Jacket picture creation

Theme export

Integration with Vegas™ software

Menu-based and single movie DVD creation

Media Explorer

Adjustable Project and File Optimization Settings

Multi-monitor support

Multi-processor support

Fully customizable toolbars

DVD Editing and Layout Features

Keyframeable transformations

Keyframeable crop and effects

Graphical subtitles

Title reordering

Snap to I-Frame

4:3 and 16:9 preview settings

DVD Mastering tools: DLT, DDP, CMF

Project playlists

Copy-protection tools (CSS and Macrovision®)

Media effects

Project navigation tool

Still and motion menu creation

Support for multiple video titles

Real-time external monitor preview via i.LINK®/IEEE-1394

Subtitle creation and support

Multiple audio track support

Programmable end actions for menus and media

Project overview window

Enhanced asset behavior control

Multiple menus with up to 36 buttons per menu

Menu object editing, alignment and sizing tools

Text editing and shadow effects

Slide image rotation

Add, edit, and move chapter points

Title and Action safe grid area

Customizable Themes

Menu looping

Video Features

Buttons on video

Crop and adjust dialog

Slideshow animations

Multiangle video selection

DVD movie creation

Picture slideshows

Elementary stream import

24p DVD encoding

No re-encoding of compliant files

NTSC and PAL in normal (4:3) and wide-screen (16:9)

formate

Imports AVI, MPEG-1, MPEG-2, MOV, WMV, and a

variety of still image formats

Audio Features

ATRAC Support

Multiple audio track support

Music compilations

Attach audio files to menus

Media file previewing

Import WAV, MP3, WMA, PCA, AIF, MPEG audio, AC-3

5.1 or stereo into your DVD Architect project

24-bit/192kHz audio support

Testing and Burning Features

Burn mastered folder

8cm to 12cm DVD Copy

Button overlap indication

Smart-project reprepare

Dual-layer burning and authoring support

Real-time project previewing with virtual DVD remote

control or to external monitor

DVD project verification and preparation

Advanced DVD disc optimization with adjustable bitrates

Fit to disc option

Supports a wide variety of DVD burners

Sony Creative Software

Supported Formats:

Imports: AA3, AAF, AIF, ASF, AVI, BMP, BWF, DLX, DV, GIF, JPG, M2T, MOV, Sony MXF, MP3, MP4, M4A, MPEG-1 and MPEG-2 video, OGG, OMA, PCA, PNG, PSD, QT, SFA, SND, SWF*, TIFF, TGA, W64, WAV, WMA, WMV

Renders: AA3, AIF, ATRAC, AVI, MP3, MOV, MP2, MP4, Sony MXF, OGG, PCA, RM, W64, WAV, WMA, WMV

DVD encoding, Video: NTSC 4:3, NTSC Widescreen, PAL 4:3, PAL Widescreen DVD encoding, Audio: AC-3 5.1 or stereo, PCM

*ActionScripting, motion video, and audio not supported.

System Requirements:

Microsoft® Windows® 2000 SP4, XP Home, or XP Professional (Windows XP SP2 required for HDV and XDCAM) 800 MHz processor (2.8 GHz recommended for HDV) 200 MB hard-disk space for program installation 600 MB hard-disk space for optional Sony Sound Series Loops & Samples reference library installation

256 MB RAM, 512 MB recommended for HDV

Windows-compatible sound card

OHCI compatible i.LINK connector/IEEE-1394DV card (for DV and HDV capture and print-to-tape) $\,$

DVD-ROM drive (for installation from a DVD only)
Supported DVD-recordable drive (for DVD burning only)
Supported CD-recordable drive (for CD burning only)
DirectX 9.0c or later (included on DVD-ROM)
Microsoft .NET Framework 2.0 (included on DVD-ROM)
Internet Explorer 5.1 or later (included on DVD-ROM)

Please Note: Product requires online registration within 30 days.

Related Items:

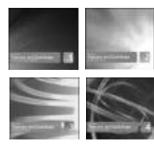
Sony Pictures Sound Effects Series

Sony Pictures Entertainment has opened its audio archives to producers everywhere. These exclusive collections of essential sound effects represent the best in sound design and field-recorded materials. Created by the industry's most respected audio professionals, these effects come from one of the world's leading motion picture studios.



Sony Vision Series: 3D Textures & Backdrops

The Vision Series multimedia creation assets deliver unlimited creative potential. These libraries are packed full of textures, backdrops, and stock footage that provide dynamic, royalty-free solutions to enhance any desktop video production. Vision Series libraries ensure that projects are always broadcast quality. Collect them all to keep your video productions looking distinctive.



Vegas Pro 8

Professional HD Video, Audio, and DVD Creation

Vegas Pro 8 combines Vegas Pro 8, DVD Architect™ Pro 4.5, and Dolby Digital® AC-3 encoding software to offer an integrated environment for all phases of video, audio, DVD, and broadcast production. This suite has all the tools needed to edit and process DV, HDV, AVCHD, SD/HD-SDI, and all XDCAM formats in real time, fine-tune audio, and author surround sound, dual-layer DVDs. Key features include: comprehensive XDCAM support, Cinescore™ software plug-in support, ProType Titling Technology, Multicam, 32 bit floating point video processing, and 5.1-channel AC-3 encoding.

Video Features

NEW! ProType Titler

NEW! Multicamera editing tools

NEW! 32-bit floating point video engine

NEW! Digital signage support

Improved HDV and SD/HD-SDI support

Redeve reduction (stills only)

Comprehensive XDCAM support

Enhanced video monitoring

Superior frame rate conversions

Multitrack video editing on unlimited tracks

3D track motion

Enhanced video compositing

Keyframeable Bézier masks

Keyframeable transitions, filters, and track motion

3-wheel primary and secondary color correction filters

Waveform, Vectorscope, Parade, and Histogram monitors

Real-time playback of effects, processes and transitions

to external monitor

Credit rolls and text animation

Transition progress envelopes

Alpha channel support

Flash™ (.swf) format import

Support for any aspect ratio (4:3, 16:9, etc)

Supports multiple file formats and frame rates

24p DV support

Audio Features

NEW! Audio Mixer Console

Broadcast Wave format multichannel support

AAF track volume and pan info support

Cinescore plug-in support

Gracenote CDDB support for CD extractions

VST plug-in effect support

Tape-style audio scrubbing

Audio recording, editing, and mixing on unlimited tracks

24-bit/192 kHz audio support

5.1 surround mixing tools

On-the-fly punch-in recording

Auto-input record monitoring

5.1 audio plug-in support for the master bus

Film-style 5.1 surround panning

Downmix monitoring





DirectX® plug-in effects automation Includes over 30 DirectX audio effects ACID® loop properties support ASIO driver support

Keyboard event pitch shifting

Fader automation

Real-time record meters

32 assignable effects and 26 Master and Aux outputs

Bus-to-bus routing

Solo or mute tracks

Master, auxiliary, and effects bus tracks

Editing/Workflow Features

NEW! Enhanced video previewing

NEW! Interactive tutorials

NEW! Scripting extensions

Save and recall window layouts

Flexible window docking

Cursor object "snapping"

Support for XDCAM essence markers

Envelope brush "painting"

Improved multiprocessor rendering

Project nesting

System-wide media management

AAF Import/Export

A/V synchronization detect and repair

Real-time nondestructive editing

Split-screen A/B previewing

Simple drag-and-drop operations

Network rendering

Envelope automation recording

High Definition editing and output

Searchable Media Pool bins

Media subclips

Automatic crossfades

Sony Creative Software

Trimmer window

JKL scrub; timeline and keyboard trimming

Real-time A/V event reverse

Dual monitor support

Multiple docking windows

User-definable window layouts

Customizable keyboard mapping

Dual processor DV rendering support

Keyboard trimming and event shuffling

Edit on 23.976, native 24, 25, 29.97 or 30 fps timelines

Unlimited undo/redo

Media Explorer window

Capture/Export/Hardware Features

NEW! Blu-ray burning directly from the timeline

NEW! No-recompress rendering for Long GOP HDV

NEW! XDCAM partial conform for FAM mode

Export directly to PSP

AVC/AAC support

MPEG-2. Insert I-Frame at markers

ATRAC 3 input and output

Import from DVD Camcorder disc

Enhanced capture and print-to-tape tools

SDI deck insert editing per channel

Render to mxf for XDCAM

Blackmagic Design DeckLink™ board support

External control surface support

Advanced streaming media tools

Application scripting for task automation

Subtitle time/text export to DVD Architect software

Windows Media™ 9 Series support, including surround encoding

RealVideo™ 9 support

QuickTime® format support

VideoCD and multimedia CD burning

Red Book audio CD production

Advanced encoding tools

EDL export

MPEG-1&2 support

Supports Windows Media® and RealMedia® commands

Sony DSR-DU1 and DSR-DR1000 disc recorder support

J-H3 HDCAM player support for DV downconverts

3:2 pulldown removal from DV .AVI files

Exports chapter markers and subtitles to DVD Architect[™] 3 software

Supported Formats:

Opens: AA3, AAF, AIF, ASF, AU, AVI, BMP, BWF, CDA, DIG, DLX, DV, FLAC, GIF, IVC, JPG, M2T, M2TS, MOV, Sony MXF, MP3, MP4, M4A, MPEG-1 and MPEG-2 video, OGG, OMA, PCA, PNG, PSD, QT, SFA, SND, SWF1, TIFF, TGA, VOX, W64, WAV, WMA, WMV

Saves: AA3, AC3, AIF, ATRAC, AVC, AVI, FLAC, MOV, MP3, MPEG-1 and MPEG-2 video, MP4, M2T, Sony MXF, OGG, PCA, RM, W64, WAV, WMA, WMV DVD encoding, Video: NTSC 4:3, NTSC Widescreen, PAL 4:3, PAL Widescreen DVD encoding, Audio: AC-3 5.1 or stereo, PCM

System Requirements:

Microsoft® Windows® XP SP2 or Windows Vista™
1 GHz processor (2.8 GHz recommended for HDV)
200 MB hard-disk space for program installation
600 MB hard-disk space for optional Sony Sound Series
Loops & Samples reference library installation
1 GB RAM

OHCI-compatible i.LINK® connector1/IEEE-1394DV card (for DV and HDV capture and print-to-tape)
Windows-compatible sound card

Windows-compatible sound card
DVD-ROM drive (for installation from a DVD only)
Supported CD-recordable drive (for CD burning only)

Supported DVD-recordable drive (for DVD burning only)
Supported Blu-ray recordable drive (for Blu-ray burning only)

Microsoft .NET Framework 3.02

QuickTime 7.1.6 or later

Product requires online registration within 30 days

^{*}ActionScripting, motion video, and audio not supported.

Vegas Movie Studio Platinum 8

Video Editing and DVD Creation Software

Vegas Movie Studio Platinum Edition software provides the power, features, and advanced tools you need to edit video in nearly any format, including HDV and Sony AVCHD. It includes hundreds of built-in video and audio effects as well as integrated tools for professional-level compositing, color correction, and 5.1 surround mixing. Vegas Movie Studio Platinum software gives you complete control over your video and audio projects.

General Features

NEW! Microsoft® Windows Vista™ support NEW! Improved native HDV .m2t playback performance and improved memory handling for HDV long form projects

NEW! Gracenote® MusicID™ technology for extracted audio from CDs.

NEW! Freehand envelope drawing on the timeline.

NEW! Display of media marker names in events.

NEW! Improved snapping — color-coded visual snap indicator and the ability to snap to event edges on other tracks.

Multitrack Video and Audio Editing

Real-time editing of parameters during playback

Support for any aspect ratio (4:3, 16:9, etc)

Supports multiple file formats and frame rates

High Definition editing and output

Simple drag-and-drop operations

Interactive Show Me How tutorials and online help

Explorer view

Project media bins

Track markers and regions

Unlimited undo/redo

Includes 1.001 sound effects

DVD Architect Studio 4.5 software included

Audio Features

NEW! Multithreaded audio engine maximizes performance

NEW! Basic surround support

NEW! Support for multichannel (5.1) source files for Sony

HDV Handycam® camcorders

Gracenote MusicID™

16-bit, 44.1 kHz song quality for exceptional performance

Volume and pan envelopes

Audio time stretching

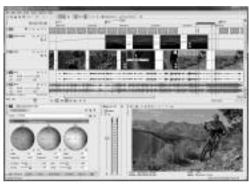
Event normalization

CD audio extraction

Master, auxiliary, and effects bus tracks

Video Features

NEW! Full-screen preview to a secondary Windows display Real-time playback of effects, processes and transitions to external monitor Color Corrections Tools MPEG-1&2 support Movie — Studio



Superior frame rate conversions Credit rolls and text animation Over 500 Video Effects and Transitions External monitor preview Ripple editing across tracks

Capture/Export/Hardware Features

NEW! Sony AVCHD import and edit support
NEW! Import and Export ATRAC3™, ATRAC3plus™,
and ATRAC Advanced Lossless™ files.

NEW! Insert I-frames at marker positions when rendering MPEG-2 (works in conjunction with I-frame viewer in DVD Architect Studio 4.5).

NEW! AC3 Stereo and 5.1 encoding

NEW! MainConcept AVC/AAC, read/write (Templates only) iPod Format

NEW! PSP® (PlayStation®Portable) integration Sony AVC/AAC (Templates only) Connectivity and media transfer facilitation NEW! ATRAC audio plug-in (Templates only)

Third-party added value

NEW! Includes NewBlue® VideoFX MSP, over 100 video effects and transitions Includes over 20 Animattes video masks by FreedomFX

DVD Architect Studio 4.5 Features

General Features

NEW! Microsoft® Windows Vista™ support
Built-in interactive Show Me How tutorials
End actions for menus and media
Project overview window
Customizable user interface
DVD theme export
Project playlists
Smart reprepare

DVD design and authoring

Menu-based and single movie DVD creation Picture slide shows and music compilations Easy to use drag-and drop interface Unlimited number of undo/redo Media Explorer Adjustable Project and file optimization Settings Multi-monitor support Multi-processor support Fully customizable toolbars Get Media from the web **DVD** Editing and Layout Still and motion menu creation Support for multiple video titles Multiple menus with up to 36 buttons per menu Menu object editing, alignment, and sizing tools Text editing and shadow effects Object snapping Slide image rotation Add, edit, and move chapter points Title and Action safe grid area Customizable Themes

Video

Menu looping

Fit to disc compression
DVD movie creation
Picture slide shows
NTSC and PAL in standard (4:3) and widescreen (16:9) formats
Imports AVI, MPEG-1, MPEG-2, MOV, WMV, and a variety of still image formats

Audio

Music compilations
Attach audio files to menus
Media file previewing
Import WAV, MP3, WMA, PCA, AIF, MPEG audio

Testing and Burning

Dual-layer drive support
Real-time project previewing with virtual DVD remote
control or to external monitor
DVD project verification and preparation
Supports a wide variety of DVD burners



Supported Formats:

Opens: AIFF, ATRAC, AVI, BMP, GIF, JPG, MMV, MP3, MPEG-1, MPEG-2, MPEG-4, Sony M2TS, OGG, PCA, PNG, PSD, QuickTime*, SFA, SWF, TGA, TIF, W64, WAV, WMA

Saves: AC-3, ATRAC, AVI, MP3, MPEG-1, MPEG-2, MPEG-4, OGG, PCA, QuickTime, RealAudio*, RealVideo*, W64, WAV, WMA, WMV

System Requirements:

Microsoft* Windows* XP SP2 or Windows Vista™

800 MHz processor (2.8 GHz recommended for HDV)

200 MB hard-disk space for program installation

256 MB RAM (512 MB RAM recommended for HDV)

OHCl-compatible i.LINK* connector1/IEEE-1394DV card (for DV and HDV capture and print-to-tape)

Windows-compatible sound card

DVD-ROM drive (for installation from a DVD only)

Supported CD-Recordable drive (for CD burning only)

Supported DVD- R /- RW /+ R /+ RW drive (for DVD burning only)

Microsoft DirectX* 9.0c or later

Microsoft INFT Framework 2.0

Cinescore

Professional soundtrack creation software

Cinescore™ software is a breakthrough in professional soundtrack creation, generating fully composed, multigenre, royalty-free production music in a matter of seconds. Adjust parameters such as mood, intensity, tempo, and variation to create a virtually unlimited number of musical variations, then save your custom variations for use in future projects. Cinescore software imports a wide range of file formats, including PSD, JPG, SWF, PCA, AVI, MP3, WMV, and WAV. There's no need to use separate applications to transcode your media. Create dynamic and effective musical tracks for movies, slideshows, commercials, radio productions and more with the push of a button.

Features

Automatically generates music to fit project length
•Includes 20 fully customizable Themes in multiple
genres •16-bit, 44.1/48 kHz song quality for high-fidelity
performance •User-defined settings yield unlimited
musical results •Custom variations can be created and
saved •Hint Markers control changes in tempo, mood,
and intensity •Multiple ending types for generated media
•Includes over 300 sound effects and audio transitions

- •Themes sorted based on instruments, keywords, and more •Video scoring track and real-time preview window •Audio sweetening track •Real-time editing during playback •Interactive Show Me How tutorials and online help •Volume and pan envelopes •Audio time stretching
- •Track markers and regions •CD audio extraction
- •External monitor preview •Unlimited undo/redo
- Project media bins

Supported Formats:

Imports: AA3, AIF, ASF, AVI, BMP, DV, GIF, JPG, MOV, MP3, MP4, M4A, MPEG-1 and MPEG-2 video, OGG, OMA, PCA, PNG, PSD, QT, SFA, SND, SWF*, TIFF, TGA, W64, WAV, WMA, WMV

Renders: AA3, AIF, AVI, MP3, MOV, MP2, MP4, OGG, PCA, RM, W64, WAV, WMA, WMV

*ActionScripting, motion video, and audio not supported.

System Requirements:

Microsoft* Windows* 2000 (SP4) or XP

1.5 GHz processor

512 MB RAM (1 GB recommended)

200 MB hard-disk space for program installation

1.7 GB hard-disk space for optional Cinescore Theme installation Windows-compatible sound card

CD-ROM drive (for installation from a CD only)

DVD-ROM drive (for installation of Themes and audio transitions)

DirectX 9.0c or later (included on DVD-ROM)

Internet Explorer 5.1 or later (included on DVD-ROM)

Related Items:

Cinescore Theme Packs: Royalty-Free Production Music

Each Cinescore Theme Pack is a collection of ten Cinescore Themes designed for a general purpose that can be opened and adjusted within Cinescore software. While Theme Packs are geared to provide soundtracks for specific situations, the flexibility of the Themes themselves ensures that Theme Packs will provide perfect musical solutions across an extraordinarily wide range of scenes. Each Theme contains multiple mood and variation presets that you can easily fine-tune to produce an unlimited number of unique, royalty-free compositions that fit perfectly to the length of your video clip.





Cinescore Theme Packs



Pass the Ring



High Tech World



Ideal Vacation



Incredible Vistas

ACID Pro 6

Professional Music Workstation

ACID™ Pro 6 software is a professional music workstation for composing, recording, mixing, and arranging audio and MIDI tracks. New multitrack technologies and full MIDI sequencing join legendary ACID looping functionality to form an incomparable environment for music creation and production. ACID Pro 6 software includes a custom edition of Native Instruments™ Kompakt and over 1,000 loops so you can start making music right out of the box. Native support for VST instruments and plug-ins expands your palette of available sounds.

Features

Fundamentals

Unlimited tracks of audio and MIDI 24-bit, 192 kHz hard disk recording

Real-time nondestructive editing

Over 1,000 music loops in multiple genres

Preview loops in real-time with your project

Alternate time signature support

ASIO driver support

Support for control surfaces including Mackie Control and

Frontier Design TranzPort

Dual/Multi-core processor support

Master, auxiliary, soft synth, and effects bus tracks

System-wide media management

Metronome for playback and record

Customizable UI and keyboard mapping

Multiple file format support

Unlimited undo/redo history

External monitor support

Get Media option to download media from the Web

Integrated disc-at-once and track-at-once CD burning

Sony Net MD format export

ATRAC3™, ATRAC3plus™, and ATRAC Advanced

Lossless™ support

Gracenote MusicID™ CD album identification

CD extraction

One-click music publishing to ACIDplanet.com

Mixing and Editing

Multitrack audio and MIDI recording

Multiple media events per track with automatic crossfades

On-the-fly punch-in recording

Beatmapper remixing tool

Chopper editing tool with loop cloning

Track mute and solo

Tempo, time signature, and key change markers

Tempo and key mapping

Project sections for easy arranging

Freehand envelope drawing on the timeline

5.1 surround film-style panning

Nestable folder tracks

Volume and Pan envelopes





Ripple editing across multiple tracks
Real-time placement of markers during playback
Drop one-shots in real time
Real-time event reverse
Frame-accurate video scoring
Bus-to-bus routing
Downmix monitoring

Attack, Sustain, and Release (ASR) envelopes

MIDI

Inline MIDI editing

MIDI track envelopes and keyframes

Drum grid editing mode with drum key maps

MIDI piano roll snap-to-scale filtering

Real-time MIDI quantization

VSTi soft synth support and parameter automation

DLS 1 & 2 soft synth support

MIDI filtering and processing

MIDI event list editing and step recording

MIDI Time Code (MTC) generation and triggering

MIDI file export

MIDI piano roll editing

MIDI event list editing

MIDI step recording

Audio Control

Includes Native Instruments KOMPAKT Sony ACID Pro edition

Over 20 DirectX audio effects including delay, EQ, compressor, resonant filter, reverb, flange, chorus, and distortion

VST effects support with automation and tempo sync

Envelope automation recording

Record input monitoring

Groove quantization tools

ReWire mixer and device support

Audio plug-in manager

Bypass all effects command

32 assignable effect chains

26 auxiliary busses

Direct links to audio editors

Sony Creative Software

Supported Formats:

Imports: Macintosh® AIFF (uncompressed) (.aif), Adaptive Transform Acoustic Coding (unprotected) (ATRAC), Windows® Video (.avi), Windows® Bitmap (.bmp), CompuServe Graphics Interchange Format (.gif), Joint Picture Experts Group (.jpg), MIDI (.mid), QuickTime® Movie (.mov), MPEG-1 Layer 3 (Audio) (.mp3), MPEG-1 and MPEG-2 Video** (.mpg), OGG Vorbis (.ogg), Perfect Clarity Audio™ (.pca), Portable Network Graphics (.png), Adobe® Photoshop® (.psd), Macromedia Flash*** (.swf), Targa™ File Format (.tga), Tagged Image File Format (.tif), Sony Wave64 (.w64), Microsoft Wave® (uncompressed) (.wav), Windows Media® Audio 9 Series (.wma), Windows Media Video 9 Series (.wmv) Saves: Dolby Digital AC-3 (.ac3)*, Macintosh® AIFF (uncompressed) (.aif), Adaptive Transform Acoustic Coding (unprotected) (ATRAC), Windows® Video (.avi), MIDI (.mid), QuickTime Movie (.mov), MPEG-1 Layer 3 (Audio) (.mp3), MPEG-1 and MPEG-2 Video** (.mpg), OGG Vorbis (.ogg), Perfect Clarity Audio™ (.pca), RealAudio[®] (.rm), RealVideo[®] (.rm), Sony Wave64 (.w64), Microsoft Wave[®] (uncompressed) (.wav), Windows Media® Audio 9 Series (.wma), Windows Media® Video 9 Series (.wmv)

*AC-3 encoding requires separate purchase of the Sony Media Software AC-3 encoder

**MPEG-1&2 support requires the purchase of the MainConcept MPEG plug-in from Sony Media Software.

***ActionScripting, motion video and audio not supported.

System Requirements:

Microsoft® Windows® 2000 (SP4) or XP
1 GHz processor (1.2 GHz if using video)
150MB hard-disk space for program installation
600 MB hard-disk space for optional Sony Sound Series Loops & Samples reference library installation

2.2 GB hard-disk space for installation of Native Instruments Kompakt Sony ACID Pro edition

256 MB RAM, 512 MB recommended
Windows-compatible sound card
DVD-ROM drive (for installation from a DVD only)
Supported CD-Recordable drive (for CD burning only)
DirectX 9.0c or later (included on DVD-ROM)
Microsoft .NET Framework 1.1 SP1 (included on DVD-ROM)
Internet connection (for Gracenote MusicID")
Internet Explorer 5.1 or later (included on DVD-ROM)

Please Note: Some features may require product registration.

Related Items:

Sony Sound Series: Loops & Samples

The Sony Sound Series collection has over 125 CD libraries of loops and samples, with new titles added monthly. Find royalty-free audio content in nearly every music genre and style. Optimized for use in ACID software applications, each loop contains our signature time-stretching and pitch-matching metadata. Now an industry standard, the "ACIDized" loop format is supported by all leading music creation applications.



Global Groove Standard Collection library



Dr. Fink's Funk Factory Premium Collection library



Chicago Fire box set

Sound Forge 9

Professional Digital Audio Production Suite

The Sound Forge™ 9 professional digital audio production suite includes everything you need to quickly get from raw audio to finished master. Use this suite to create and edit stereo and multichannel audio files with speed and precision, efficiently analyze, record and edit audio, digitize and restore old recordings, model acoustic environments, design sound for multimedia, and master replication-ready CDs. Sound Forge 9 new features include multichannel file recording, editing and processing, phase scope metering, and Dolby® Digital AC-3 export. Includes CD Architect™ 5 software, Noise Reduction 2 plug-ins, and Mastering Effects Bundle powered by iZotope™. Works with Windows® Vista™.

Features

Processes

NEW! Channel converter for multichannel files

Auto Trim/Crop

Mute

Normalize peak or RMS Level

Stereo Pan/Expand (supports mid-side mixing)

Graphic, Paragraphic, and Parametric EQ

DC Offset

Resample

Reverse

Graphic Fade with noise-shaping and dithering

Smooth/Enhance

Fade In/Out

Time Compress/Expand

Insert Silence

Volume

Invert/Flip

Bit Depth Converter (to 8-bit, 16-bit, 24-bit, or 32-bit)

Effects

NEW! Includes Mastering Effects Bundle powered by iZotope[™]

New! Wet/dry mix and crossfade options

VST plug-in effect support

DirectX® plug-in effects automation

DirectX Plug-in Manager

Real-time effects previewing

Modeless audio plug-in Chainer

Acoustic Mirror environment simulator

Amplitude Modulation

Chorus

Distortion

Delay/Echo (Simple and Multi-Tap)

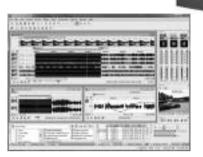
Graphic Dynamics

Multi-Band Dynamics

Envelope

Flange/Wah-Wah/Phaser

Gapper/Snipper



Noise Gate

Pitch Bend/Shift

Reverb

Vibrato

Wave Hammer Compressor/Volume Maximizer

Tools

NEW! Includes Noise Reduction 2.0

NEW! Multichannel capable Spectrum Analysis™ tools

Sound Farge (

NEW! Phase and mono-compatibility meters

NEW! Gracenote® MusicID™ technology

NEW! Access to Sony Music Studios Internet Mastering

(Sony Music SIM)

Includes CD Architect 5.2

Direct file export to CD Architect software

Application scripting

Script editor window

Batch conversion

Copy Statistics to clipboard

Drag-and-drop CD extraction

Clipped peak detection and marking

FM Synthesis with envelope

White, pink, brown and filtered noise generators

Simple synthesis sweep

Auto Region (using beats and measures, or peak detection)

Crossfade Loop

Extract Regions

Find Tool

Preset Manager

Sampler Tool

Statistics Tool (Max, RMS, DC offset, Zero Crossings)

DTMF/MF Tone Synthesis

Editing/Workflow

NEW! Multichannel file editing and processing

NEW! Enhanced user interface with color customization

NEW! Fade in/out curve types

Audio scrubbing tool

JKL keyboard commands for scrub

Sony Creative Software

Customizable keyboard mapping Windows XP theme support Project paths in rendered media Real-time nondestructive editing Simple drag-and-drop operations Multitask background rendering Media Explorer window Undo/redo history Docking windows

Recording/Playback

NEW! Multichannel audio recording
NEW! Hardware meters with output gain control
ASIO driver support
Automated time-based recording
Audio threshold record triggering

Prerecord buffer Auto calibration for DC Offset Generate SMPTE/MIDI Time Code Glitch/Gap Detection

Punch In option
Pre-roll to Cursor

Real-time record/playback meters (VU/PPM and standard)
Remote record function

Regions and Playlists

Updated Regions List and Playlist windows Real-time editing of fields List sorting Nondestructive playlist Name markers, loops, regions Trigger with sequencers Trigger with MIDI event-generating devices

Trigger with time code-generating devices

Sample Editing

Pop-up MIDI keyboard to test samples Sustaining Loop Release Loop Real-time loop tuning window Generate/Receive MIDI Time Code SCSI/SMDI or MIDI/SDS sample transfer Sustaining Loop, Release Loop

Timing Basis

Absolute Frames Measures and Beats Samples, Time, Seconds SMPTE Drop/Non-Drop SMPTE EBU/Film Sync Time and Frames

Encoding/Video Support

NEW! Dolby® Digital AC-3 export
NEW! Multichannel Windows Media format support

Flash™ (.swf) format import

Video saving and render options (fast video resizing, deinterlace, source video resampling, and video stretching)

Windows Media® 9 Series import and export

QuickTime® 6 import and export, RealMedia® 9 export Support for 24fps DV video files

Option to compensate for non-square pixels in Video preview window

Display exact video frame animation above waveform .MOV and MPEG-1 and MPEG-2 format import

Windows Media Video 9 format support

External monitor support using DV and IEEE 1394 devices Maintain perfect sync while working with full NTSC and PAL video

Sound and video synchronization with sub-frame accuracy Various video and audio compression options

Tools for ACID Software

Publish to ACIDplanet.com®
Create loops for ACID software
Loop-editing toolbar

Assign root notes, number of beats, and tempo *MPEG-1&2 support requires the purchase of the MainConcept** MPEG plug-in.

Supported Formats:

Opens: AA3*, AAC, AIF, ASF, AU, AVI*, CDA, DIG, DV, FRG, GIF, IVC, M2T, M4A, MOV, Sony MXF*, MP1, MP3, MP4, M2A, M2P, M2T, M4A, M4B, MPEG, MMV, MPEG-1 and MPEG-2 video, OGG, PCA, QT, RAW, SD, SFA, SND, SWF3, TIF, TIFF, VOB*, VOX, W64*, WAV*, WMA*, WMV *Multichannel formats supported for reading.

Saves: AA3, AC3, AIF, ATRAC, AU, AVI, DIG, FRG, IVC, M1A, M1P, M2T, M2A, M2P, MMV, MOV, MP1, MP2, MP3, MPA, MPG, MPEG-1 and MPEG-2 video, MP4, Sony MXF, OGG, PCA, RAW, RM, VOX, W64, WAV, WMA, WMV

System Requirements:

Microsoft® Windows® Vista™, XP, or 2000 SP4

800 MHz processor
150 MB hard-disk space for program installation
256 MB RAM
Windows-compatible sound card
DVD-ROM drive (for installation)
Supported CD-Recordable drive (for CD burning)
Microsoft DirectX® 9.0c or later (included onDVD-ROM)
Microsoft .NET Framework 2.02 (included on DVD-ROM)
Internet Explorer 5.1 or later (included on DVD-ROM)

PLEASE NOTE: You must provide your registration information to Sony Creative Software, Inc., a US company and subsidiary of Sony Corporation of America, in order to activate the software. Product requires online registration within 30 days.

CD Architect 5.2

Professional Red Book audio CD mastering software

Produce professional audio CDs to Red Book specification with CD Architect™ software. It's everything you need to produce professional CDs from beginning to end. Perform full PQ code editing including track and index positions, ISRC codes, and pause times. With CD Architect software you can apply effects to individual tracks, sections of a track, or the master bus. Create live-style CDs with audio in the time between tracks, apply volume envelopes and event ASR envelopes, and even create hidden tracks. Create custom crossfades and generate disc-at-once premasters suitable for professional replication. CD Architect software uses simple drag-and-drop operations and supports most CD burners.

Features

General Editing

Support for up to 32-bit, 192kHz source audio
High-quality resampling and dithering with noiseshaping
Single or multi-file playlisting
Volume and ASR envelopes for any event
CD Text support
Multiple levels of undo/redo

Multiple levels of undo/redo
Override validation errors option
Mono-to-stereo conversion on the fly
CD transport controls

Direct file open into Sound Forge™ software Track creation from Sound Forge regions

Trimmer window
Media Explorer
Ripple editing

CD Image file rendering

Automatic crossfades

Greater than 1:1 time zoom

Reading and extraction of PQ data along with audio tracks

Complete control over tracks, marker placements, and indices

Preview multiple tracks or ranges of audio before extraction from a supported CD device Stereo master volume fader and adjustable envelope controls for any region.

Media Pool

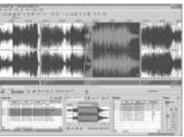
Multiple file format support without conversion

Autosave crash recovery

Undo/redo history list

Supports MP3, AIFF, Ogg Vorbis, Windows Media® Audio, and more





Mastering

Over 20 real-time DirectX® plug-ins
Event and master bus effects model
Audio layering to create complex crossfades
Event Normalization
Real time pitch shift/time stretch
Slip trimming
Audio phase invert
Audio scrubbing
Unlimited volume envelope points

CD Design

Full PQ code editing support, including track and index positions and pause times
Absolute times for replication
Print cue sheets and format CD liner notes
Up to 99 tracks
Up to 99 subindices per track
Smart track reordering
Automatic pause time indication
Relative times for liner notes
Timeline event locking
Adjustable pause times
Audio CD player un-mute fade emulation

Sony Creative Software

CD Writing

Burns disc-at-once premaster CDs for professional replication

USB, FireWire, SCSI and IDE/ATAPI CD-R and CD-RW drive support

Overburn support of 80 minute and other size CD-Rs

Buffer underrun protection

Test burn mode

PQ list verification for Red Book compatibility prior to burn

Burn speed selection

Copy-inhibit flags

Pre-emphasis flags

Audio clipping detection

International Standard Recording Codes (ISRC)

Universal Product Codes (UPC)

Media Catalog Numbers (MCN)

Supported Formats:

Imports: Wave (wav), CD Audio (.cda), CD Architect" 4 or 5 project (.cdp), Audio Interchange File Format (.aif, .aiff), MPEG-1 Layer 3 (.mp3), Windows Media Audio (.wma), Ogg Vorbis (.ogg), OuickTime* audio (.qt, .mov), Perfect Clarity Audio (.pca), Wave64 (.w64), Sony Pictures Digital Audio (.sfa), Dialogic VOX ADPCM (.vox), Intervoice (.ivc), NeXT/Sun (.au, .snd), Sound Designer 1 (.dig, .sd)

Exports: Wave Image (.wav), CD Architect 5 Project (.cdp)

Microsoft® Windows® 2000, XP Home, or XP Professional

System Requirements:

500 MHz processor
40 MB hard-disk space for program installation
128 MB RAM
Windows-compatible sound card
CD-ROM drive
Supported CD-Recordable drive (for CD burning only)
Microsoft DirectX* 8 or later (included on CD-ROM)
Internet Explorer 5.1 or later (included on CD-ROM)

Please Note: Some features may require product registration.

SONY

Audio Mixer & Consoles

Audio Mixer & Consoles

DMX-P01						314
SRP-X700P						315
SRP-X500P						316

DMX-P01 Portable digital mixer

Features

·Portable, digital field-mixer designed for ENG/EFP application •Compact (266 x 68 x 206 mm) and lightweight (Approx. 2.2 kg) •24-bit A/D and D/A converters and internal 32-bit DSP for excellent sound quality •4 microphone/line inputs with +48 V mic power (on/off) •2 channels of balanced analogue output and AES/EBU digital output (stereo) via XLR-type connectors •Digital cascade input with phono connector •Coaxial output connector for mix-bus output or S/PDIF digital output •Selectable sampling rate: 48 kHz or 96 kHz •Full control of every parameter from the front panel using physical and menu-driven controls •Digital limiters on both inputs and outputs, and digital compressors on outputs •A scene memory recall feature to instantly recall up to ten different user-defined parameter settings or factory default settings •A power-on memory function recalls parameters in three different ways: default factory settings, the last used settings or parameters of one specific scene memory •Easy-to-read backlit LCD panel displays output levels and setup menus, and allows various parameter settings •Meter calibrations can be selected from six types: VU, BBC type, DIN type, NORDIC type, IEC type1, and dBFS •Camera-audio return-level check via 12-pin connector •Panel lock and parameter lock function •Adjustable HPF with two user settings •Operates on eight AA-size alkaline (LR6) batteries or external DC 10 to 15 V power ·Spare battery-compartment for quick battery change



PDW-510 XDCAM Camcorder (DVCAM Recording) PDW-510P XDCAM Camcorder (DVCAM Recording) PDW-530 XDCAM Camcorder (MPEG IMX/DVCAM Recording) PDW-530P XDCAM Camcorder (MPEG IMX/DVCAM Recording)

Supplied Accessories

Spare battery compartment (1) Meter scale sheets (6) Ferrite clamp filters (2) 12-pin male connector (1) Rubber foot (4)







SRP-X700P Digital Powered Mixer (220/230V)

Features

•Ideal for conference rooms, lecture theatres and other presentation applications . Contains the functions of a high-quality digital audio mixer, power amplifier, wireless mic receiver, RGB/video switcher, feedback reducer and equalizer in a compact 3U high unit •Accepts 3 RGB/ component, 3 composite and 3 S-video inputs, and selects 1 RGB/component, 1 composite, and 1 S-video for outputs •High-quality component signals (480p/1080i) and RGB signals with 150 MHz frequency response (1280x1024 pixels, SXGA) • Mixes wireless mic and wired mic inputs with audio from video/DVD players for 10 outputs •24-bit AD/DA conversion at 48kHz sampling frequency •6 mic inputs with phantom powering, 2 wireless mic (or line) inputs, and 2 line inputs •Wireless mic slots for storing 2 WRU-806A/806B tuner modules •200W+200W(4Ω)/150W+150W(8Ω)/max.150W (70V Line) digital power amp •Feedback reducer, parametric EQ, LCF (100Hz), compressor/limiter, delay, automatic mixing and flexible signal routing all performed in a digital domain •20 scene memories with quick memory recall capacity •Remote control of SRP-X700P via USB, RS-232C or parallel ports from a PC, a system controller or a control panel •RS-232C output port for remote control of a projector/plasma display unit Control-S ports for remote control of VCRs. DVD/CD/MD players and video/data projectors • Parallel output port for remote control of environment devices •Supplied software for comprehensive set-up and controls of SRP-X700P





Supplied Accessories

AC power cord (1)
IR Transmitter (1)
Foot (4)
Control software disc* (1)
Operation manual (1)

Optional Peripherals

WRU-806A UHF Synthesized Tuner Unit (64U)
WRU-806A UHF Synthesized Tuner Unit (66U)
WRU-806A UHF Synthesized Tuner Unit (68U)
WRU-806B UHF Synthesized Tuner Unit (6264U)
WRU-806B UHF Synthesized Tuner Unit (6668U)
AN-820A UHF Antenna

*System requirements PC: Windows 98SE, Windows 2000, Windows ME, or Windows XP

SRP-X500P Digital Powered Mixer/Switcher (220V)

Features

- •Same as the flagship model SRP-X700P, the SRP-X500P integrates the functionality of the following seven devices to prepare for the scenes of today's modern presentations requiring a wide range of A/V sources, in its compact 3U height, 19-inch rack-mountable chassis •Ideal for conference rooms, lecture theatres and other presentation applications •Contains the functions of a high-quality digital audio mixer •RGB Switcher •Video Switcher
- •Wireless Tuner Base Unit •Audio Mixer •Power Amplifier
- •Feedback Reducer •Equalizer •All-In-One Design
- •High Quality Digital Processor •Versatile Interface
- •Integrated Wireless Tuner Unit Slots •Comprehensive Remote Control •Built-in Four-Channel Digital Power Amplifier



Power cord (1)
Feet (4)
CD-ROM (1)
Operating Instructions (1)
Antenna (2)

Optional Peripherals

AN-820A UHF Antenna UWP-X1/X2 Wireless Microphone Package WRU-806A UHF Synthesizer Tuner Unit RM-AV3000 series Universal Remote Commander





Wired Microphones

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DC-78 Power Supply Unit

Features

- •Designed for use with Sony lavalier microphones equipped with a Sonv 4-pin (SMC9-4P) connector
- •Two-way powering: battery operation (using an AA-size (LR6) alkaline battery) or external DC operation (12 to 48 V) • Supplied with an SMC9-4S input connector and an XLR 3-pin output connector

Applicable Models

ECM-88 Lavalier Microphone

Specifications

Power requirements:

Internal battery: DC 1.5 V (AA-size (LR6)

alkaline battery)

External battery: DC 12 to 48 V

Battery life:

Approx. 6000 h

Input connector:

Sony 4-pin (SMC9-4S)

Output connector:

XLR-3-12C type

Dimensions:

20.0 dia. x 144.0 (h) mm

(13/16 x 5 3/4 inches)

Approx. 130 g (4.59 oz) including batteries



ECM-166BC Lavalier Microphone

- ·Uni-directional, electret condenser microphone
- ·Resistant to howling by rejecting indirect sound
- ·Ideal for institutional uses and sound contracting applications such as speeches, lectures and conferences
- •Microphone head: 12.5 mm dia x 23.5 mm (1/2 inch dia.
- x 15/16 inch), 3.5 g (0.12 oz, microphone only)
- •SMC9-4P type connector for use with WRT-822A/822B/ 860A

Supplied Accessories

Urethane wind screen (1)

Holder clip (1)

Specifications

Capsule type:

Electret Condenser

Directivity:

Uni-directional

Frequency response:

100 Hz to 10 kHz

Sensitivity (0 dB = 1 V/Pa, at 1 kHz):

-45 dB (5.6 mV)

Output impedance (at 1 kHz):

 $2.5 \text{ k}\Omega \pm 30\%$ (unbalanced)

Dynamic range:

96 dB or more

Signal-to-noise ratio (A-weighted, 1 kHz, 1

Pa.):

60 dB or more Inherent noise:

34 dB SPL or less

Max. input sound pressure level:

130 dB SPL

Normal operating voltage:

DC 3 V (supply range: DC 3 to 10 V)

Current drain:

0.4 mA or less

Output connector: SMC9-4P type

Cable length:

1.2 m (3.9 feet)

Dimensions (microphone head):

12.5 mm dia. x 23.5 mm

(1/2 inch dia. x 15/16 inch)

Mass (microphone head):

3.5 g (0.12 oz)

*0 dB SPL = 2E-5 Pa.



ECM-166BMP Lavalier Microphone

Features

- •Uni-directional, electret condenser microphone
- •Resistant to howling by rejecting indirect sound
- •Ideal for institutional uses and sound contracting applications such as speeches, lectures and conferences
- •Microphone head: 12.5 mm dia x 23.5 mm (1/2 inch dia.
- x 15/16 inch), 3.5 g (0.12 oz, microphone only) •3-pole mini plug with a stable lock mechanism for use with WRT-805A/805B

Supplied Accessories

Urethane wind screen (1) Holder clip (1) Operation manual (1)

Specifications

Capsule type: Electret condenser

Directivity:

Uni-directional

Frequency response:

100 Hz to 10 kHz

Sensitivity (0 dB = 1 V/Pa, at 1 kHz):

-45 dB (5.6 mV)

Output impedance (at 1 kHz):

 $2.5 \text{ k}\Omega \pm 30\%$ (unbalanced)

Dynamic range:

96 dB or more

Signal-to-noise ratio (A-weighted, 1 kHz, 1 Pa.):

60 dB or more

Inherent noise:

34 dB SPL or less

Max. input sound pressure level:

130 dB SPL

Normal operating voltage:

DC 3 V (supply range: DC 3 to 10 V)

Current drain:

0.4 mA or less

Output connector:

3.5 mm dia., 3-pole mini plug

Cable length:

1.2 m (3.9 feet)

Dimensions (microphone head):

12.5 mm dia. x 23.5 mm

(1/2 inch dia. x 15/16 inch)

Mass (microphone head):

3.5 g (0.12 oz)



ECM-322BC Electret Condenser Microphone

Features

- •Supplied with a Sony 4-pin connector (SMC9-4P) for use with the WRT-8B/822B bodypack transmitter
- •Optimum sound pickup •Ear-clip style •Adjustable microphone position •Secure and comfortable fit
- ·Compact and lightweight design

Supplied Accessories

Operating instructions (1) Carrying case (1)

Specifications

Capsule type

Electret Condenser

Frequency response

70 Hz to 15 kHz

Directivity

Omni-directional

Sensitivity (0 dB=1 V/Pa, at 1 kHz)

-43 dB (7.1 mV) ±3dB

Output impedance at 1 kHz

1.8 k Ω ±30% (unbalanced)

Maximum input sound pressure level

(0 dB SPL=2E-5 Pa)

110.2 dB SPL

Connector type

SMC9-4P Cable length

1.4 m (4.5 feet)

Dimensions Boom:

ø3 x 140 mm (5 5/8 inches)

Mass

15 g (0.5 oz) excluding cable



ECM-322BMP Electret Condenser Microphone

Features

•Supplied with 3-pole mini-jack with a stable lock mechanism for use with the UWP series bodypack transmitter •Optimum sound pickup •Ear-clip style

•Adjustable microphone position •Secure and comfortable

fit •Compact and lightweight design

Supplied Accessories

Operating instructions (1) Carrying case (1)

Specifications

Capsule type

Electret Condenser

Frequency response

70 Hz to 15 kHz

Directivity

Omni-directional

Sensitivity (0 dB=1 V/Pa, at 1 kHz)

-43 dB (7.1 mV) ±3dB

Output impedance at 1 kHz

1.8 k Ω ±30% (unbalanced)

Maximum input sound pressure level

(0 dB SPL=2E-5 Pa)

110.2 dB SPL

Connector type

3-pole mini-jack

Cable length

1.4 m (4.5 feet)

Dimensions Boom:

ø3 x 140 mm (5 5/8 inches)

Mass

15 g (0.5 oz) excluding cable



ECM-44B Lavalier Microphone

Features

- •Omni-directional, electret condenser microphone
- ·Superior sound quality ·Complete with in-line battery unit
- •Microphone head: 8.5 mm dia. x 14.5 mm (11/32 inch dia. x 19/32 inch), 2g (0.07 oz) •Microphone cable length: 3.0 m (9.8 feet)

Supplied Accessories

Holder clip (single/horizontal type) (1) Urethane wind screen (1) Microphone case (1)

Optional Accessories

SAD-H44B Lavalier-Microphone Holder Clip AD-R44B Urethane Windscreen

Specifications

Capsule type:

Electret condenser

Frequency response:

40 Hz to 15 kHz

Directivity:

Omni-directional

Sensitivity (0 dB = 1 V/Pa, at 1 kHz):

-53.0 dB ±3 dB

Output impedance (at 1 kHz):

250 Ω ±20% (balanced)

Dynamic range:

90 dB or more

Signal-to-noise ratio (A-weighted, 1 kHz,

1 Pa.):

62 dB or more

Inherent noise:

32 dB SPL or less

Wind noise (with wind screen, at 2 m/s):

40 dB SPL or less

Induction noise from external magnetic field

(dB SPL/(1E-7) T):

5 dB SPL or less

Max. input sound pressure level:

122 dB SPL

Output connector:

XLR-3-12C type

Cable length:

3.0 m (9.8 feet)

Power supply:

R6 (1.5V) (R6P battery life: approx. 5,000

h)

Normal operating voltage:

DC 1.5 V

Current drain:

0.3 mA or less

Dimensions:

Microphone head:

8.5 mm dia. x 14.5 mm

(11/32 inch dia. x 19/32 inch)

Power unit:

20.0 mm dia. x 126 mm

(13/16 inch dia. x 5 inches)

Mass:

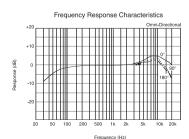
Microphone head:

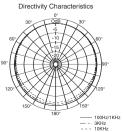
2 g (0.07 oz)

Total:

121 g (4.3 oz)







ECM-44BC Lavalier Microphone

Features

- •Omni-directional, electret condenser microphone
- •Superior sound quality •SMC9-4P type connector for use with WRT-822A/822B/860A •Microphone head: 8.5 mm dia. x 14.5 mm (11/32 inch dia. x 19/32 inch),

2g (0.07 oz) •Microphone cable length: 1.2 m (3.9 feet)

Applicable Models

WRT-8B UHF Synthesised Transmitter (6668U)

Supplied Accessories

Holder clip (single/horizontal type) (1) Urethane wind screen (1) Microphone case (1)

Optional Accessories

SAD-H44B Lavalier-Microphone Holder Clip AD-R44B Urethane Windscreen

Specifications

Capsule type:

Electret condenser

Frequency response:

40 Hz to 15 kHz

Directivity:

Omni-directional

Sensitivity (0 dB = 1 V/Pa, at 1 kHz):

-40 dB (10 mV)

Dynamic range:

90 dB or more

Signal-to-noise ratio (A-weighted, 1 kHz,

1 Pa.):

62 dB or more

Inherent noise:

32 dB SPL or less

Wind noise (with wind screen, at 2 m/s):

40 dB SPL or less

Induction noise from external magnetic field

(dB SPL/(1E-7) T):

5 dB SPL or less

Max. input sound pressure level:

122 dB SPL

Output connector:

SMC9-4P type

Cable length:

1.2 m (3.9 feet)

Normal operating voltage:

DC 3 V (supply range: DC 3 to 10 V)

Current drain:

0.3 mA or less

Dimensions (microphone head):

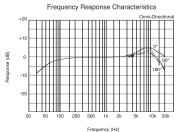
8.5 mm dia. x 14.5 mm

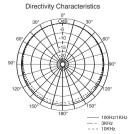
(11/32 inch dia. x 19/32 inch)

Mass (microphone head):

2 g (0.07 oz)







ECM-44BMP Lavalier Microphone

Features

- •Omni-directional, electret condenser microphone
- •Superior sound quality •3.5 mm dia., 3-pole mini plug for use with WRT-805A/805B •Microphone head: 8.5 mm dia. x 14.5 mm (11/32 inch dia. x 19/32 inch), 2g (0.07 oz)
- •Microphone cable length: 1.2 m (3.9 feet)

Supplied Accessories

Holder clip (single/horizontal type) (1) Urethane wind screen (1) Microphone case (1)

Optional Accessories

SAD-H44B Lavalier-Microphone Holder Clip AD-R44B Urethane Windscreen

Specifications

Capsule type:

Electret condenser

Frequency response:

40 Hz to 15 kHz

Directivity:

Omni-directional

Sensitivity (0 dB = 1 V/Pa, at 1 kHz):

-40 dB (10 mV)

Dynamic range:

90 dB or more

Signal-to-noise ratio (A-weighted, 1 kHz,

1 Pa.):

62 dB or more

Inherent noise:

32 dB SPL or less

Wind noise (with wind screen, at 2 m/s):

40 dB SPL or less

Induction noise from external magnetic field

(dB SPL/(1E-7) T):

5 dB SPL or less

Max. input sound pressure level:

122 dB SPL

Output connector:

3.5 mm dia., 3-pole mini plug

Cable length:

1.2 m (3.9 feet)

Normal operating voltage:

DC 3 V (supply range: DC 3 to 10 V)

Current drain:

0.3 mA or less

Dimensions (microphone head):

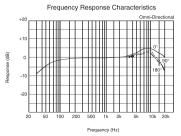
8.5 mm dia. x 14.5 mm

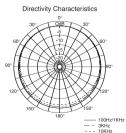
(11/32 inch dia. x 19/32 inch)

Mass (microphone head):

2 g (0.07 oz)







ECM-530 Electret Condenser Microphone

Features

- •Compact and high-quality table-top microphone
- •Goose-neck and extendable stem allow flexible microphone positioning for precise voice pick-up
- •2-way powering: internal AA-size battery or external power supply (DC 12 to 48 V)

Supplied Accessories

Operation manual (1) Wind screen (1)

Specifications

Capsule type:

Electret condenser

Frequency response:

70 Hz to 18 kHz

Directivity:

Uni-directional

Effective output level at 1 kHz

(0 dBm = 1 mW/1 Pa.):

-46.8 dBm

Sensitivity (0 dB = 1 V/1 Pa., at 1 kHz):

-49.0 dB ±3.0 dB

Output impedance at 1 kHz (balanced):

150 Ω ±20%

Dynamic range:

95 dB or more

Signal-to-noise ratio (A-weighted, 1 kHz,

1 Pa.):

63 dB or more

Inherent noise:

31 dB SPL or less

Induction noise from external magnetic field

(dB SPL/(1E-7) T):

5 dB SPL or less

Wind noise:

55 dB SPL or less

Max. Input sound pressure level:

126 dB SPL

Microphone connector:

XLR-3-12C type

Cable length:

2 m

Available receptacle:

XLR-3-11C type

Power supply:

Battery power (R6 or LR6) or external

power supply (AC-148F or equivalent)

Recommended Sony battery:

R6P (R6P battery life: approx. 5,000 h)

Standard operating voltage:

Battery: 1.5 V

External power: DC 24 to 48 V

Current drain:

Battery: 0.23 mA or less

AC power: 2 mA or less

Dimensions:

12 dia. x 326 to 448 mm

86 dia. mm (Table Stand)

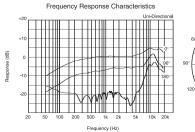
(1/2 dia. x 12 7/8 to 17 3/8 inches)

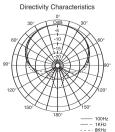
(Table stand: 3 1/2 dia. inches)

Mass (without battery):

325 g (11.5 oz)







ECM-55B Lavalier Microphone

Features

- •Omni-directional, electret condenser microphone
- •Complete with in-line battery unit for 2-way powering (AA-size battery or external power supply (DC 12 to 48 V)) •Frequency response tailored for enhanced presence and improved voice quality in lavalier applications •Microphone head: 10.6 mm dia. x 21 mm (7/16 inch dia. x 27/32 inch), 6.5 g (0.2 oz) •Mic cable length: 3.0 m (9.8 feet)



Supplied Accessories

Holder clip (single/horizontal type) (1) Holder clip (single/vertical type) (1) Metal wind screen (1) Microphone case (1)

Optional Accessories

AD-R55B Metal Windscreen SAD-H55B Lavalier-Microphone Holder Clip

Specifications

Capsule type: Electret condenser

Frequency response:

30 Hz to 18 kHz

Directivity:

Omni-directional

Sensitivity (0 dB=1 V/Pa, at 1 kHz):

-52.0 dB ±2 dB

Output impedance (at 1 kHz):

100 Ω ±20% (balanced)

Dynamic range:

98 dB or more

Signal-to-noise ratio (A-weighted, 1 kHz,

1 Pa.):

66 dB or more

Inherent noise:

28 dB SPL or less

Wind noise (with wind screen, at 2 m/s):

40 dB SPL or less

Induction noise from external magnetic field

(dB SPL/(1E-7) T):

5 dB SPL or less

Max. input sound pressure level:

126 dB SPL

Output connector:

XLR-3-12C type

Cable length:

3.0 m (9.8 feet)

Power supply:

Battery:

R6 (1.5 V) (R6P battery life: approx.

5,000 h)

Ext. power:

DC 12 to 48 V

Normal operating voltage:

DC 1.5 V

Current drain:

3.5 mA or less

Dimensions:

Microphone head:

10.6 mm dia. x 21 mm

(7/16 inch dia. x 27/32 inch)

Power unit:

20.0 mm dia. x 133 mm (13/16 inch dia. x 5 1/4 inches)

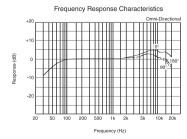
Mass:

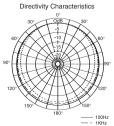
Microphone head:

6.5 g (0.23 oz)

Total (without power unit):

127 g (4.5 oz)





ECM-66B Lavalier Microphone

Features

•Designed for instrumental applications •Uni-directional electret condenser microphone •Complete with in-line battery unit for 2-way powering (AA-size battery or external power supply (DC 24 to 48 V)) •Max. 130 dB SPL input sound pressure level •Microphone head: 10.6 mm dia. x 24.3 mm (7/16 inch dia. x 31/32 inch), 7 g (0.24 oz) • Mic cable length: 3.0 m (9.8 feet)



Supplied Accessories

Holder clip (single/horizontal type) (1) Holder clip (single/vertical type) (1) Urethane wind screen (1) Microphone case (1)

Optional Accessories

AD-R66B Urethane Windscreen SAD-H55B Lavalier-Microphone Holder Clip

Specifications

Capsule type:

Electret condenser

Directivity:

Uni-directional

Frequency response:

70 Hz to 14 kHz

Sensitivity (0 dB=1 V/Pa, at 1 kHz):

-50.0 dB ±2 dB

Output impedance (at 1 kHz):

100 Ω ±20% (balanced)

Dynamic range:

101 dB or more

Signal-to-noise ratio (A-weighted, 1 kHz,

1 Pa.):

65 dB or more

Inherent noise:

29 dB SPL or less

Wind noise (with wind screen, at 2 m/s):

50 dB SPL or less

Induction noise from external magnetic field

(dB SPL/(1E-7) T):

5 dB SPL or less

Max. input sound pressure level:

130 dB SPL

Output connector:

XLR-3-12C type

Cable length:

3.0 m (9.8 feet) Power supply:

Battery:

R6 (1.5 V) (R6P battery life: approx.

300 h)

Ext. power:

DC 24 to 48 V

Normal operating voltage:

DC 1.5 V

Current drain:

0.3 mA or less

Dimensions:

Microphone head:

10.6 mm dia. x 24.2 mm

(7/16 inch dia. x 31/32 inch)

Power unit:

20.0 mm dia. x 163 mm (13/16 inch dia. x 6 2/1 inches)

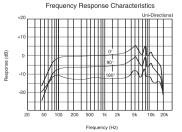
Mass:

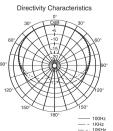
Microphone head:

7 g (0.25 oz)

Total (without power unit):

167 g (5.9 oz)





ECM-673 Electret Condenser Microphone

Features

- •Shotgun-type electret condenser microphone
- Super-cardioid microphone with minimum sensitivity to ambient noise •Compact and light weight design
- ·Suitable for mounting on Sony cameras and camcorders
- •External power supply (DC 40 to 52 V)

Supplied Accessories

Wind screen (1) Microphone holder (1) Microphone spacer (1) Microphone cable (1)

Operating instructions (1)

Specifications Capsule type Electret condenser Directivity Uni-directional (super-cardioid) Frequency response 40 Hz to 20 kHz Sensitivity (at 1 kHz) -36 dB⁻¹ ±3 dB Output impedance (at 1 kHz)

 $220 \Omega \pm 20\%$ Dynamic range 107 dB or more Signal-to-noise ratio

77 dB or more (IEC179 A-weighted,

1 kHz, 1Pa) Inherent noise

17 dB SPL² or less

Wind noise

45 dB SPL² or less (with windscreen), 50 dB SPL^{*2} (without windscreen) Induction noise from external magnetic field

0 dB SPL² or less Maximum input sound pressure level

124 dB SPL⁻²

Power requirements

DC 40 to 52 V

Dimensions

ø20 x 200 mm

(ø13/16 x 7 7/8 inches)

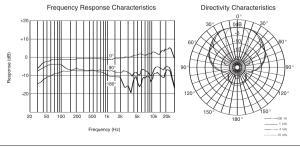
Mass Approx.

135 g (4.76 oz)

*1 0 dB=1 V/Pa, at 1 kHz

*2 0 dB=20µ Pa





ECM-674 Electret Condenser Microphone

Features

•Superior sound quality with a newly developed microphone capsule •Excellent sensitivity of -36 dB (0 dB=1 V/Pa.) •Low inherent-noise level of less than 17 dB SPL •Flat-and-wide frequency response (40 Hz to 20 kHz) •Compact and lightweight design - 268 mm in length and 185 g weight •Two-way powering - Internal AA-size battery operation or External DC (40 to 52 V) operation •Built-in low cut filter switch (M, V) for reducing undesired ambient nose •Built-in battery liquid leakage protection circuit



Supplied Accessories

Windscreen (1)
Microphone holder (1)
Microphone spacer (1)
Microphone cable (1)
Operating instructions (1)

Applicable Models

DVW-970P Digital Betacam Camcorder DVW-970 Digital Betacam Camcorder MSW-970P MPEG IMX Camcorder MSW-970 MPEG IMX Camcorder

SpecificationsCapsule type

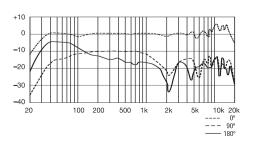
Electret condenser Directivity Uni-directional (super-cardioid) Frequency response 40 Hz to 20 kHz Sensitivity (at 1 kHz) 36 dB(*1) ±3 dB Output impedance (at 1 kHz) 220 Ω ±20% Dynamic range Phantom: 107 dB or more, Battery: 98 dB or more Signal-to-noise ratio 77 dB or more (IEC179 A-weighted, 1 kHz, 1Pa.) Inherent noise 17 dB SPL(*2) or less Wind noise 50 dB SPL(12) or less (with windscreen) Induction noise from external magnetic field 0 dB SPL(12) or less Maximum input sound pressure level Phantom: 124 dB SPL (12), Battery: 115 dB SPL (*2) Power requirements

External: DC 40 to 52 V, Battery: 1.5 V

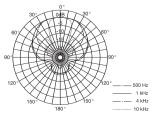
Approx. 185 g (6.5 oz) without battery

Approx. 208 g (7.3 oz) with battery

Frequency Reponse Characteristics



Directivity Characteristics



20 dia. x 268 mm

(13/16 dia. x 10 5/8 inches)

(*2) 0 dB=20µ Pa.

Dimensions

Mass

ECM-678 Electret Condenser Microphone

Features

- •Shotgun-type electret condenser microphone •Superior sound quality •Flat and wide frequency response
- •Compact design •Built-in low cut filter •High durability and reliability •Suitable for mounting on Sony cameras and camcorders

Supplied Accessories

Windscreen (x1) Microphone holder (x1) Microphone spacer (x1) Carrying case (x1) Operating instructions (x1)

Specifications

Capsule type Electret condenser Directivity

Uni-directional (Super-cardioid)

Frequency response 40 Hz to 20 kHz Sensitivity (at 1 kHz) -28 dB⁻¹ ±3 dB Output impedance (at 1 kHz) 200 Ω ±20% Dynamic range

111 dB or more Signal-to-noise ratio

78 dB or more (IEC179 A-weighted, 1 kHz, 1Pa.) Inherent noise

16 dB SPL² or less Wind noise

60 dB SPL² or less

Induction noise from external magnetic field 0 dB SPL² or less

Maximum input sound pressure level 127 dB SPL²

Power requirements External, DC 48 V ±4 V

Dimensions

ø20 x 250 mm (ø13/16 x 9 7/8 inches) Mass

200 g (7 oz)

*1 0 dB=1 V/Pa., at 1 kHz *2 0 dB SPL=20µ Pa.



ECM-680S Electret Condenser Microphone

Features

•Excellent sound quality •Superb sensitivity of -28 dB (stereo)/-32 dB (monaural)(*2) •Extremely low inherent noise of less than 20 dB SPL (stereo/monaural) •Stereo and monaural switchable •Flat-and-Wide frequency response (50 Hz to 20 kHz (stereo)/40 Hz to 20 kHz (monaural)) •Built-in low cut filter (M, V) •Compact and lightweight design: 250 mm (9 7/8 inches) in length and weighs less than 140 g (4.9 oz)

*2 0 dB=1 V/Pa

Supplied Accessories

Windscreen 1

Microphone holder 1

Microphone spacer 1

Microphone cable (XLR-5-pin to XLR-5-pin) 1

Stand screw adaptor (PF1/2 thread - NS5/8 thread) 1

Stand screw adaptor (PF1/2 thread - W3/8 thread) 1

Carrying case 1

Operating instructions 1

Applicable Models

HDW-790P HDCAM Camcorder

HDW-F900R HDCAM Camcorder

HDW-790 HDCAM Camcorder

PDW-F330L XDCAM HD Camcorder (without lens)

PDW-F330K XDCAM HD Camcorder (with lens)

PDW-F350L XDCAM HD Camcorder (without lens)

Specifications

Capsule type

Electret condenser

Stereo type

MS (Mid-Side) stereo microphone

Directivity

Uni-directional

Frequency response

Stereo: 50 Hz to 20 kHz

Monaural: 40 Hz to 20 kHz

Sensitivity (at 1 kHz)

Stereo: -28 dB(*1) ±3 dB

Monaural: -32 dB(*1) ±3 dB

Output impedance (at 1 kHz)

100 ø ±20%

Dynamic range

Stereo: 104 dB or more Monaural: 106 dB or more

Signal-to-noise ratio (IEC179 A-weighted, 1 kHz, 1Pa)

Stereo: 74 dB or more

Monaural: 76 dB or more

Inherent noise

20 dB SPL(*2) or less

Wind noise

60 dB SPL(*2) or less (with windscreen), 55 dB

SPL(*2) (without windscreen)

Induction noise from external magnetic field

0 dB SPL(*2) or less

Maximum input sound pressure level

124 dB SPL(*2)

Power requirements

DC 40 to 52 V

Power consumption

Stereo: 4 mA or less x 2ch

Monaural: 4 mA or less

Dimensions

ø20 x 250 mm (ø13/16 x 9 7/8 inches)

Mass

Approx. 140 g (4.9 oz)





ECM-77B Lavalier Microphone

Features

- •High performance, ultra miniature microphone
- •Omni-directional, electret condenser microphone
- •Microphone head: approx. 5.6 mm dia. x 12.5 mm (1/4 inch dia. x 1/2 inch), 1.5 g (0.04 oz) •Frequency response: 40 Hz to 20 kHz •Complete with in-line battery unit for 2-way powering (AA-size battery or external power supply (DC 12 to 48 V)) •Mic cable length: 3.0 m (9.8 feet)



Supplied Accessories

Holder clip (single/horizontal type) (1) Holder clip (single/vertical type) (1) Metal wind screen (1) Microphone case (1)

Optional Accessories

AD-KIT77 Lavalier-Microphone Accessory Kit SAD-H77B Lavalier-Microphone Holder Clip SAD-W77B Lavalier-Microphone Holder Clip SAD-V77B Lavalier-Microphone Holder Clip AD-C77B Urethane Windscreen AD-R77B Metal Windscreen AD-C77 Colour Urethane Windscreen

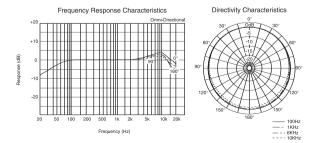
Specifications Capsule type: Electret condenser Directivity: Omni-directional Frequency response: 40 Hz to 20 kHz Sensitivity (0 dB=1 V/Pa, at 1 kHz): -52.0 dB ±2 dB Output impedance (at 1 kHz): 150 Ω ±20% (balanced) Dynamic range: 90 dB or more Signal-to-noise ratio (A-weighted, 1 kHz, 1 Pa.): 64 dB or more Inherent noise: 30 dB SPL or less Wind noise (with wind screen, at 2 m/s): 40 dB SPL or less Induction noise from external magnetic field (dB SPL/(1E-7) T): 5 dB SPL or less Max. input sound pressure level: 120 dB SPL Output connector: XLR-3-12C type Cable length: 3.0 m (9.8 feet) Power supply:

R6 (1.5 V) (R6P battery life: approx.

Battery:

5,000 h)
Ext. power:
DC 12 to 48 V
Normal operating voltage:
DC 1.5 V

Current drain:
0.4 mA or less
Dimensions:
Microphone head:
ø5.6 mm x 12.5 mm
(ø1/4 inch x 1/2 inch)
Power unit:
20.0 mm dia. x 133 mm
(13/16 inch dia. x 5 1/4 inches)
Mass:
Microphone head:
1.5 g (0.05 oz)
Total:
122 g (4.3 oz)



ECM-77BC Lavalier Microphone

Features

- ·High performance, ultra miniature microphone
- ·Omni-directional, electret condenser microphone
- •Frequency response: 40 Hz to 20 kHz •Microphone head: approx. 5.6 mm dia. x 12.5 mm (1/4 inch dia. x 1/2 inch), 1.5 g (0.04 oz) •1.2 m (3.9 feet) cable terminating in a SMC9-4P type connector for use with WRT-822A/822B/860A

40

Applicable Models

WRT-8B UHF Synthesised Transmitter

Supplied Accessories

Holder clip (single/horizontal type) (1)
Holder clip (single/vertical type) (1)
Metal wind screen (1)
Microphone case (1)

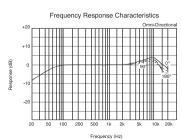
Optional Accessories

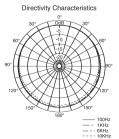
AD-KIT77 Lavalier-Microphone Accessory Kit SAD-H77B Lavalier-Microphone Holder Clip SAD-W77B Lavalier-Microphone Holder Clip SAD-V77B Lavalier-Microphone Holder Clip AD-C77B Urethane Windscreen AD-R77B Metal Windscreen AD-C77 Colour Urethane Windscreen

Specifications Capsule type: Electret condenser Directivity: Omni-directional Frequency response: 40 Hz to 20 kHz Sensitivity (0 dB=1 V/Pa, at 1 kHz): -39.0 dB (11.2 mV) Dynamic range: 90 dB or more Signal-to-noise ratio (A-weighted, 1 kHz, 1 Pa.): 64 dB or more Inherent noise: 30 dB SPL or less Wind noise (with wind screen, at 2 m/s): 40 dB SPL or less Induction noise from external magnetic field (dB SPL/(1E-7) T): 5 dB SPL or less

Max. input sound pressure level:
120 dB SPL
Output connector:
SMC9-4P type
Cable length:
1.2 m (3.9 feet)
Normal operating voltage:
DC 3 V (supply range: 3 to 10 V)
Current drain:
0.4 mA or less
Dimensions:

Microphone head: 5.6 mm dia. x 12.5 mm (1/4 inch dia. x 1/2 inch) Mass (microphone head): 1.5 g (0.05 oz)





ECM-77BMP Lavalier Microphone

Features

- ·High performance, ultra miniature microphone
- •Omni-directional, electret condenser microphone
- Frequency response: 40 Hz to 20 kHz Microphone head: approx. 5.6 mm dia. x 1/2 mm (1/4 inch dia. x 1/2

inch), 1.5 g (0.04 oz) •1.2 m (3.9 feet) cable terminating in a 3.5 mm dia., 3-pole mini plug for use with WRT-805A/805B

Supplied Accessories

Holder clip (single/horizontal type) (1)
Holder clip (single/vertical type) (1)
Metal wind screen (1)
Microphone case (1)

Optional Accessories

AD-KIT77 Lavalier-Microphone Accessory Kit SAD-H77B Lavalier-Microphone Holder Clip SAD-W77B Lavalier-Microphone Holder Clip SAD-V77B Lavalier-Microphone Holder Clip AD-C77B Urethane Windscreen AD-R77B Metal Windscreen AD-C77 Colour Urethane Windscreen

Specifications

Capsule type:

Electret condenser

Directivity:

Omni-directional

Frequency response:

40 Hz to 20 kHz

Sensitivity (0 dB=1 V/Pa, at 1 kHz):

-39.0 dB (11.2 mV)

Dynamic range:

90 dB or more

Signal-to-noise ratio (A-weighted, 1 kHz,

1 Pa.):

64 dB or more

Inherent noise:

30 dB SPL or less

Wind noise (with wind screen, at 2 m/s):

40 dB SPL or less

Induction noise from external magnetic field

(dB SPL/(1E-7) T):

5 dB SPL or less

Max. input sound pressure level:

120 dB SPL

Output connector:

3.5 mm dia., 3-pole mini plug

Cable length:

1.2 m (3.9 feet)

Normal operating voltage:

DC 3 V (supply range: 3 to 10 V)

Current drain:

0.4 mA or less

Dimensions:

Microphone head:

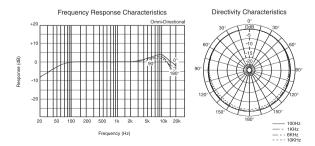
5.6 mm dia. x 12.5 mm

(1/4 inch dia. x 1/2 inch)

Mass (microphone head):

1.5 g (0.05 oz)





ECM-77BPT Lavalier Microphone

Features

- ·High performance, ultra miniature microphone
- •Omni-directional, electret condenser microphone
- •Frequency response: 40 Hz to 20 kHz •Pigtail connection, without battery unit or connector
- •Microphone head: approx. 5.6 mm dia. x 12.5 mm

(1/4 inch dia. x 1/2 inch), 1.5 g (0.04 oz)

•Mic cable length: 3.0 m (9.8 feet)

Supplied Accessories

Holder clip (single/horizontal type) (1)
Holder clip (single/vertical type) (1)
Metal wind screen (1)
Microphone case (1)

Optional Accessories

AD-KIT77 Lavalier-Microphone Accessory Kit SAD-H77B Lavalier-Microphone Holder Clip SAD-W77B Lavalier-Microphone Holder Clip SAD-V77B Lavalier-Microphone Holder Clip AD-C77B Urethane Windscreen AD-R77B Metal Windscreen AD-C77 Colour Urethane Windscreen

Specifications

Capsule type:

Electret condenser

Directivity:

Omni-directional

Frequency response:

40 Hz to 20 kHz

Sensitivity (0 dB=1 V/Pa, at 1 kHz):

-39.0 dB (11.2 mV)

Dynamic range:

90 dB or more

Signal-to-noise ratio (A-weighted, 1 kHz,

1 Pa.):

64 dB or more

Inherent noise:

30 dB SPL or less

Wind noise (with wind screen, at 2 m/s):

40 dB SPL or less

Induction noise from external magnetic field

(dB SPL/(1E-7) T):

5 dB SPL or less

Max. input sound pressure level:

120 dB SPL

Cable length:

3.0 m (9.8 feet)

Normal operating voltage:

DC 3 V (supply range: 3 to 10 V)

Current drain:

0.4 mA or less

Dimensions:

Microphone head:

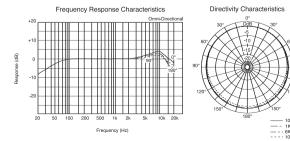
5.6 mm dia. x 12.5 mm

(1/4 inch dia. x 1/2 inch)

Mass (microphone head):

1.5 g (0.05 oz)





ECM-88B Lavalier Microphone

Features

The ECM-88B is an extremely miniature, omni-directional electret condenser microphone ideal for quality-critical applications in broadcasting, theatre, and field productions.

- Dual-diaphragm mechanism contributes to its high sensitivity and low inherent noise characteristics
- •Water-resistant architecture •Flat-and-wide frequency response: 20 Hz to 20 kHz •Ultra-compact microphone capsule: 3.5 x 3.5 x 16.8 mm (5/32 x 5/32 x 11/16 inches)
- •Supplied DC-78 DC Power Supply Unit enables two-way powering internal AA-size (LR6) alkaline-battery operation or DC (12 to 48 V) operation •Mic cable length: 2.5 m (8.2 feet)



Single/horizontal type tie clip (1)
Single/vertical type tie clip (1)
Double/horizontal type tie clip (1)
Urethane windscreen (1)
DC-78 (1)
Microphone case (1)
Ferrite clamp (1)
Operating instructions (1)





ECM-88BC Lavalier Microphone

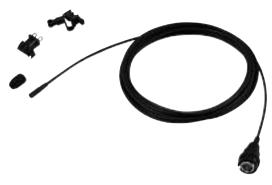
Features

•Ultra miniature, omni-directional electret condenser microphone •Designed for use in broadcasting, theatre. and field production applications • Dual-diaphragm mechanism contributes to its high sensitivity and low inherent noise characteristics •Water-resistant architecture •Flat-and-wide frequency response: 20 Hz to 20 kHz •Microphone head: 3.5 mm x 3.5 mm x 16.8 mm (5/32 x 5/32 x 11-16 inch) •2.5 m (8.2 feet) cable with a Sony 4-pin connector (SMC9-4P) for connection to the optional DC-78 power supply unit or the WRT-8B/822A/822B bodypack transmitter

Supplied Accessories

Carrying case (1) Microphone holder (double-pin type) (1) Microphone holder (tie-clip type) (1) Urethane windscreen (1)

*10 dB = 1V/Pa., at 1 kHz **0 dB SPL = 20µ Pa



ECM-88 with supplied accessories

Optional Accessories

AD-KIT88 Lavalier-Microphone Accessory Kit AD-C88 Colour Urethane Windscreen AD-R88B Urethane Windscreen SAD-88B Lavalier-Microphone Holder Clip SAD-P88 Lavalier-Microphone Holders SAD-W88B Lavalier-Microphone Holder Adaptor DC-78 Power Supply Unit

Specifications Capsule type: Electret condenser Directivity: Omni-directional Frequency response: 20 Hz to 20 kHz Sensitivity (at 1 kHz): -52 dB* ±2 dB (when used in combination with the DC-78) -38 dB* (12.6 mV) Output impedance (at 1 kHz): 100 Ω ±20% (when used in combination with the DC-78) $2.5 \text{ k}\Omega \pm 30\%$ Dynamic range: 99 dB or more Signal-to-noise ratio: 68 dB or more (A-weighted, 1 kHz, 1Pa.) Inherent noise: 26 dB SPL** or less (A-weighted, 1 kHz, 1Pa.) Wind noise: 45 dB SPL** or less (when using the supplied

with the DC-78) Maximum input sound pressure level:

Induction noise from external magnetic field: 5 dB SPL** or less (when used in combination

125 dB SPL**

windscreen)

Cable length:

2.5 m (8.2 feet)

Output connector:

Sony SMC9-4P

Power requirements:

DC 1.1 to 10.0 V

Dimensions (microphone capsule):

3.5 x 3.5 x 16.8 (h) mm

(5/32 x 5/32 x 11/16 inch)

32 g (including microphone cable)

ECM-88BPT Lavalier Microphone

Features

•Ultra miniature, omni-directional electret condenser microphone •Designed for use in broadcasting, theatre. and field production applications • Dual-diaphragm mechanism contributes to its high sensitivity and low inherent noise characteristics •Water-resistant architecture •Flat-and-wide frequency response: 20 Hz to 20 kHz •Microphone head: 3.5 mm x 3.5 mm x 16.8 mm (5/32 x 5/32 x 11-16 inch) •2.5 m (8.2 feet) cable without a connector (pig tail)



Microphone holder (double-pin type) (1) Microphone holder (tie-clip type) (1) Urethane windscreen (1) Operating instructions (1)

Optional Accessories

AD-KIT88 Lavalier-Microphone Accessory Kit SAD-88B Lavalier-Microphone Holder Clip SAD-P88 Lavalier-Microphone Holders SAD-W88B Lavalier-Microphone Holder Adaptor

AD-C88 Colour Urethane Windscreen AD-R88B Urethane Windscreen

Specifications

Capsule type: Electret condenser Directivity: Omni-directional

Frequency response:

20 Hz to 20 kHz Sensitivity (at 1 kHz): -38 dB* (12.6 mV)

Output impedance (at 1 kHz):

 $2.5 \text{ k}\Omega \pm 30\%$ Dynamic range:

99 dB or more Signal-to-noise ratio:

68 dB or more (A-weighted, 1 kHz, 1Pa.) Inherent noise:

26 dB SPL** or less (A-weighted, 1 kHz, 1Pa.)

Wind noise:

45 dB SPL** or less (when using the supplied windscreen)

Induction noise from external magnetic field: 5 dB SPL** or less (when used in combination with the DC-78)



Maximum input sound pressure level: 125 dB SPL**

Cable length:

2.5 m (8.2 feet)

Output connector:

No connector (pig tail)

Power requirements: DC 1.1 to 10.0 V

Dimensions (microphone capsule):

3.5 x 3.5 x 16.8 (h) mm (5/32 x 5/32 x 11/16 inch)

Mass:

20 g (including microphone cable)

*10 dB = 1V/Pa., at 1 kHz ** 0 dB SPL = 20µ Pa.

ECM-88FPT Lavalier Microphone

•Ultra miniature, omni-directional electret condenser microphone •Designed for use in broadcasting, theatre, and field production applications • Dual-diaphragm mechanism contributes to its high sensitivity and low inherent noise characteristics •Water-resistant architecture •Flat-and-wide frequency response: 20 Hz to 20 kHz •Beige colour •Microphone head: 3.5 mm x 3.5 mm x 16.8 mm (5/32 x 5/32 x 11-16 inch) •2.5 m (8.2 feet) cable without a connector



Specifications

Capsule type: Electret condenser Directivity: Omni-directional

Frequency response: 20 Hz to 20 kHz Sensitivity (at 1 kHz): -38 dB* (12.6 mV)

Output impedance (at 1 kHz):

 $2.5 \text{ k}\Omega \pm 30\%$ Dynamic range: 99 dB or more

Signal-to-noise ratio: 68 dB or more (A-weighted, 1 kHz, 1Pa.)

Inherent noise:

26 dB SPL** or less (A-weighted, 1 kHz, 1Pa.)

Wind noise

45 dB SPL** or less (when using the supplied windscreen)

Induction noise from external magnetic field: 5 dB SPL** or less (when used in combination with the DC-78)

Maximum input sound pressure level: 125 dB SPL**

Cable length:

2.5 m (8.2 feet) Output connector:

DC 1.1 to 10.0 V

No connector (pigtail) Power requirements:

Dimensions (microphone capsule): 3.5 x 3.5 x 16.8 (h) mm

(5/32 x 5/32 x 11/16 inch)

32 g (including microphone cable)

*10 dB = 1V/Pa., at 1 kHz **0 dB SPL = 20µ Pa.

F-112 Dynamic Microphone

Features

•Superior sound quality •Flat-and-wide frequency response •Robust and sophisticated design

Supplied Accessories

Operating instructions (1)

Optional Accessories

UWP-C3 UHF Synthesised Wireless Microphone Package (62CE7) UWP-C3 UHF Synthesised Wireless Microphone Package (67CE7)

Specifications

Capsule type

Dynamic

Directivity

Omni-directional

Frequency response

60 Hz to 18 kHz Sensitivity (at 1 kHz)

52 dB (*1) ±3 dB

Output impedance (at 1 kHz)

400 Ω ±20%

Dimensions

22/41.4 dia. x 190 mm (% dia. (handle),

1 11/16 dia. (head) x 8 ¾ inches))

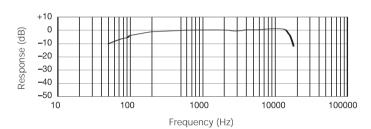
Mass

Approx. 215 g (7.6 oz)

(*1) 0 dB=1 V/Pa., at 1 kHz



Frequency Response Characteristics



F-710 Dynamic Microphone

Features

•For multi-purpose applications •Built-in TALK switch

•High sensitivity with the Neodymium magnet •XLR-3-12C type connector •Frequency response: 70 Hz to

15 kHz •Dimensions (diameter x length): 54 x 177 mm (2 1/4 x 7 inches) • Mass: approx. 250 g (8.8 oz)



Supplied Accessories

Microphone holder (1) Stand adaptor (N5/8) (1) Stand adaptor (W3/8) (1)

Optional Accessories

SAD-700 Microphone Holder

A-12 Table Stand A-25 Table Stand A-25N Table Stand

CRS-3P Cradle Suspension

Specifications

Capsule type: Dynamic Frequency response:

70 Hz to 15 kHz

Directivity:

Uni-directional

Effective output level at 1 kHz (0 dBm =

1 mW/1 Pa.): -56.0 dBm

Sensitivity (0 dB = 1 V/1 Pa., at 1 kHz):

-54.0 dB ±3.0 dB

Output impedance at 1 kHz (balanced): $400\Omega \pm 20\%$

Induction noise from external magnetic field

(dB SPL/(1E-7) T):

5 dB SPL or less

Wind noise:

55 dB SPL or less

Microphone connector:

XLR-3-12C type Available receptacle:

XLR-3-11C type

Stand screw/mic holder screw:

PF1/2-inch thread

Dimensions (diameter x length):

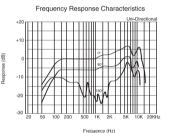
54 x 177 mm (2 1/4 x 7 inches)

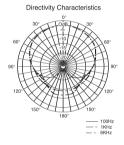


* 0 dB SPL = 2E-5 Pa

250 g (8.8 oz)

Mass:





F-720 Dynamic Microphone

Features

•For multi-purpose applications •Convenient TALK switch for turning on and off the microphone •Vibration proof capsule suspension •XLR-3-12C type connector

•Frequency response: 50 Hz to 13 kHz •Dimensions: 37.6 dia. x 160 mm (1 1/2 dia. x 6 3/8 inches)

•Mass: approx. 260 g (9.2 oz)

Supplied Accessories

Microphone holder (1) Stand adaptor (NS5/8) (1) Stand adaptor (W3/8) (1)

Optional Accessories

A-12 Table Stand A-25 Table Stand A-25N Table Stand CRS-3P Cradle Suspension

Specifications

Capsule type:

Dynamic

Frequency response:

50 Hz to 13 kHz

Directivity:

Uni-directional

Effective output level at 1 kHz (0 dBm =

1 mW/1 Pa.):

-60.0 dBm

Sensitivity (0 dB = 1 V/1 Pa., at 1 kHz):

-57.0 dB ±3.0 dB

Output impedance at 1 kHz (balanced): $500\Omega \pm 20\%$

Induction noise from external magnetic field (dB SPL/(1E-7) T):

10 dB SPL or less

Wind noise:

55 dB SPL or less

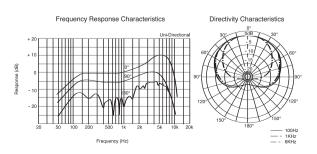
Microphone connector:

XLR-3-12C type

Available receptacle:

XLR-3-11C type

Stand screw/mic holder screw: PF1/2-inch thread Dimensions (diameter x length): 37.6 x 160 mm (1 1/2 x 6 3/8 inches) Mass: 260 g (9.2 oz)



F-780 Dynamic Microphone

Features

•Designed specifically for critical vocal reproduction in music recording and live performance •Rugged capsules in a resilient body structure •Special AlNiCo Magnet

•High quality edgewise winding CCAW (Copper Clad Alminium Wire) voice coil •XLR-3-12C type connector

•Frequency response: 50 Hz to 18 kHz •Dimensions: 51 dia. x 165 mm (2 1/8 dia. x 6 1/2 inches)

•Mass: approx. 290 g (10.2 oz)

Supplied Accessories

Microphone holder (1) Stand adaptor (NS5/8) (1) Stand adaptor (W3/8) (1)

Specifications

Capsule type:

Dynamic

Frequency response:

50 Hz to 18 kHz

Directivity:

Uni-directional

Effective output level at 1 kHz (0 dBm =

1 mW/1 Pa.):

-55.0 dBm

Sensitivity (0 dB = 1 V/1 Pa., at 1 kHz):

-53.0 dB ±2.0 dB

Output impedance at 1 kHz (balanced):

 $400\Omega \pm 20\%$

Induction noise from external magnetic field

(dB SPL/(1E-7) T):

5 dB SPL or less

Wind noise:

50 dB SPL or less

Microphone connector:

XLR-3-12C type

Available receptacle:

XLR-3-11C type

Stand screw/mic holder screw:

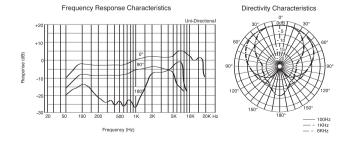
PF1/2-inch thread

Dimensions (diameter x length):

51 x 165 mm (11/8 x 6 1/2 inches) Mass:

290 g (10.2 oz)





AD-KIT88B Microphone Accessory Kit

Features

The AD-KIT88B is a lavalier microphone accessory kit for the ECM-88 Series.

Includes four types of microphone clips (single/horizontal, single/vertical, double/horizontal, and safety-pin type tie clip) and six urethane windscreens (red, yellow, green, blue, gray, and black)

Applicable Models

ECM-88B Lavalier Microphone ECM-88BC Lavalier Microphone ECM-88BPT Lavalier Microphone



SAD-H88B Lavalier-Microphone Holder Clip

Features

The SAD-H88B is a horizontal type lavalier microphone holder clip for the ECM-88 Series.

•Single/horizontal holder clip for the ECM-88 Series lavalier microphones •Black colour •Six pieces are included

Applicable Models

ECM-88B Lavalier Microphone ECM-88BC Lavalier Microphone ECM-88BPT Lavalier Microphone



SAD-V88B Lavalier-Microphone Holder Clip

Features

The SAD-V88B is a vertical type lavalier microphone holder clip for the ECM-88 Series.

•Single/vertical holder clip for the ECM-88 Series lavalier microphones •Black colour •Six pieces are included

Applicable Models

ECM-88B Lavalier Microphone ECM-88BC Lavalier Microphone ECM-88BPT Lavalier Microphone



SAD-W88BL Lavalier-Microphone Holder Clip

Features

The SAD-W88BL is a double/horizontal type lavalier microphone holder clip for the ECM-88 Series.

 Double/horizontal holder clip for the ECM-88 Series lavalier microphones
 Black colour
 Six pieces are included

Applicable Models

ECM-88B Lavalier Microphone ECM-88BC Lavalier Microphone ECM-88BPT Lavalier Microphone



SAD-S88B Lavalier-Microphone Holder Clip

Features

The SAD-S88B is a safety-pin type lavalier microphone holder clip for the ECM-88 Series.

•Safety-pin type holder clip for the ECM-88 Series lavalier microphones •Black colour •Six pieces are included

Applicable Models

ECM-88B Lavalier Microphone ECM-88BC Lavalier Microphone ECM-88BPT Lavalier Microphone



AD-KIT88 Lavalier-Microphone Accessory Kit

Features

- •Designed for ECM-88 Series Lavalier microphones
- •Includes two types of microphone holders (double-pin and tie-clip), a holder adaptor for dual-microphone operation, and six urethane windscreens (red, yellow, green, blue, gray, and black)

Applicable Models

ECM-88 Lavalier Microphone ECM-88FPT Lavalier Microphone ECM-88PT Lavalier Microphone



SAD-88B Lavalier-Microphone Holder Clip

Features

Single, tie-clip type microphone holder for ECM-88
 Series lavalier microphones *Black colour *Six pieces are included.

Applicable Models

ECM-88 Lavalier Microphone ECM-88FPT Lavalier Microphone ECM-88PT Lavalier Microphone



SAD-P88 Lavalier-Microphone Holders

Features

 Double-pin type microphone holder for ECM-88 Series lavalier microphones
 Black colour
 Six pieces are included.

Applicable Models

ECM-88 Lavalier Microphone ECM-88FPT Lavalier Microphone ECM-88PT Lavalier Microphone



SAD-W88B Lavalier-Microphone Holder Adaptor

Features

•Microphone holder adaptor for dual-microphone operation •Used in combination with SAD-P88 or SAD-88B microphone holder •Six pieces are included.

Applicable Models

ECM-88 Lavalier Microphone ECM-88FPT Lavalier Microphone ECM-88PT Lavalier Microphone



AD-R88B Urethane Windscreen

Features

 Single/horizontal holder clip for the ECM-77 Series lavalier microphones •Black colour •10 pieces are included.

Applicable Models

ECM-88 Lavalier Microphone ECM-88B Lavalier Microphone ECM-88BC Lavalier Microphone ECM-88BPT Lavalier Microphone ECM-88FPT Lavalier Microphone ECM-88PT Lavalier Microphone



AD-C88 Colour Urethane Windscreen

Features

- •Designed for ECM-88 Series Lavalier microphones
- •Two sets of the six colours (red, yellow, green, blue, gray, and black) are included.

Applicable Models

ECM-88 Lavalier Microphone ECM-88FPT Lavalier Microphone ECM-88PT Lavalier Microphone



AD-KIT77 Lavalier-Microphone Accessory Kit

Features

- •Designed for ECM-77 Series Lavalier microphones
- •Includes three types of microphone holders (horizontal/single type, vertical/single type, and horizontal/dual type) and six urethane windscreens (red, yellow, green, blue, gray, and black)

Applicable Models

ECM-77BC Lavalier Microphone ECM-77BPT Lavalier Microphone



SAD-H77B Lavalier-Microphone Holder Clip

Features

•Single/horizontal holder clip for the ECM-77 Series lavalier microphones •Black colour •10 pieces are included.

Applicable Models

ECM-77B Lavalier Microphone ECM-77BC Lavalier Microphone ECM-77BMP Lavalier Microphone ECM-77BPT Lavalier Microphone ECM-88PT Lavalier Microphone



SAD-V77B Lavalier-Microphone Holder Clip

Features

•Single/vertical holder clip for the ECM-77 Series lavalier microphones •Black colour •10 pieces are included.

Applicable Models

ECM-77B Lavalier Microphone ECM-77BC Lavalier Microphone ECM-77BMP Lavalier Microphone ECM-77BPT Lavalier Microphone



SAD-W77B Lavalier-Microphone Holder Clip

Features

•Double/vertical holder clip for the ECM-77 Series lavalier microphones •Black colour •Six pieces are included.

Applicable Models

ECM-77B Lavalier Microphone ECM-77BC Lavalier Microphone ECM-77BMP Lavalier Microphone ECM-77BPT Lavalier Microphone



SAD-S77 Lavalier-Microphone Holder Clip

Features

•Safety pin-type holder clip for the ECM-77 Series lavalier microphones •Silver type •Six pieces are included.



AD-R77B Metal Windscreen

Features

- •Designed for ECM-77 Series lavalier microphones
- •Black colour •Six pieces are included.

Applicable Models

ECM-77B Lavalier Microphone ECM-77BC Lavalier Microphone ECM-77BMP Lavalier Microphone ECM-77BPT Lavalier Microphone



AD-C77B Urethane Windscreen

Features

- •Designed for ECM-77 Series lavalier microphones
- •Black colour •12 pieces are included.

Applicable Models

ECM-77BC Lavalier Microphone ECM-77BPT Lavalier Microphone



AD-C77 Colour Urethane Windscreen

Features

- •Designed for ECM-77 Series lavalier microphones
- •Two sets of the six colours (red, yellow, green, blue, gray, and black) are included.

Applicable Models

ECM-77B Lavalier Microphone ECM-77BC Lavalier Microphone ECM-77BMP Lavalier Microphone ECM-77BPT Lavalier Microphone



AD-R66B Urethane Windscreen

Features

- •Designed for ECM-66 Series lavalier microphones
- •Black colour •12 pieces are included

Applicable Models

ECM-66B Lavalier Microphone ECM-66BPT Lavalier Microphone

SAD-H55B Lavalier-Microphone Holder Clip

Features

•Single/horizontal holder clip for the ECM-55 Series and ECM-66 Series lavalier microphones •Black colour

•10 pieces are included.

Applicable Models

Applicable model
ECM-55B Lavalier Microphone
ECM-55BPT Lavalier Microphone
ECM-66B Lavalier Microphone
ECM-66BPT Lavalier Microphone



AD-R55B Metal Windscreen

Features

- •Designed for ECM-55 Series lavalier microphones
- ·Black colour ·Six pieces are included.

Applicable Models

ECM-55B Lavalier Microphone ECM-55BPT Lavalier Microphone



SAD-H44B Lavalier-Microphone Holder Clip

Features

 Single/horizontal holder clip for the ECM-44 Series lavalier microphones •Black colour •10 pieces are included.

Applicable Models

ECM-44B Lavalier Microphone ECM-44BC Lavalier Microphone ECM-44BMP Lavalier Microphone ECM-44BPT Lavalier Microphone



AD-R44B Urethane Windscreen

Features

- •Designed for ECM-44 Series lavalier microphones
- •Black colour •12 pieces are included.

Applicable Models

ECM-44B Lavalier Microphone
ECM-44BC Lavalier Microphone
ECM-44BMP Lavalier Microphone
ECM-44BPT Lavalier Microphone



Digital PCM Recorder

Digital PCM Recorder

PCM-D1								348
XI R-1								340

PCM-D1 Portable Linear PCM Recorder

Features

•96 kHz-24 bit, virtually noise-free, recording quality
•Built-in, X-Y configuration electret condenser
microphones for superb stereo sound •4GB internal Flash
Memory, free of drive mechanisms •Slot for removable
Memory Stick PRO (High Speed) storage •Built-in USB
2.0 port, compatible with Macintosh® and Windows®/PC
operating systems •Four rechargeable nickel metal
hydride AA batteries (battery charger included) •Rugged
titanium body with portable, lightweight design•Built-in
Electret Condenser Microphones •Superb Audio Signal
Path •Outstanding Construction Quality •Simple
Uploading to Computer •High Quality Signal Processing



Power Consumption

2.1W

Power Requirements

DC IN 6V (AC 220-240V, 50Hz); Four AA size nickel metal hydride rechargeable batteries NH-AA (supplied); or Four AA size alkaline batteries (not supplied)
Dimensions

2 7/8" x 7 5/8" x 1 5/16" (w x h x d) not including projecting parts and controls

Mass

18.52 oz (including batteries)

Approximate Battery Life

Battery Type 96kHz 24-bit 44.1kHz 16-bit Nickel Metal Hydride 4.0 hrs 5.0 hrs Alkaline 2.0 hrs 2.0 hrs

Built in Microphones

Electret condenser microphones mounted in X-Y configuration.

High sensitivity (-32.0 dB /Pa 1 kHz); Maximum input level 130 dB SPL; Self noise level 20 dBSPL(A)

Recording Media

Built-in flash memory 4 GB, Memory Stick PRO (High Speed) media (Not Supplied), Stereo Recording

Sampling Rates

22.05 kHz, 44.1 kHz, 48 kHz and 96 kHz Quantization

16-bit linear, 24-bit linear

Frequency Response (Line Input to Line Output) For Fs = 22.05 kHz: Frequency Response

= 20 Hz to 10 kHz;

For Fs = 44.1 kHz: Frequency Response = 20 Hz to 20 kHz;

For Fs = 48 kHz: Frequency Response = 20 Hz to 22 kHz:

For Fs = 96 kHz: Frequency Response = 20 to 44 kHz

Signal-to-Noise Ratio (Line Input to Line Output) 96 dB or greater (1 kHz IHF-A) when set to 24-bit Total Harmonic Distortion

(Line Input to Line Output)

0.008% or below (1 kHz, 22 kHz LPF)

Wow and Flutter

Below measurable limit (less than +/-0.001% W.Peak)

Mic Input (Stereo Mini Jack)

Input impedance: 22 k Ω , Rated input level:

2.5 mV; Minimum input level: 0.7 mV

Headphone Output (Stereo Mini Jack)
Rated output level: 400 mV; Maximum

output level: 30 mW + 30 mW or more;

Load impedance: 16 Ω

Line Input (Stereo Mini Jack)

Input impedance: 47 K ohms;

Rated input level: 2.0V;

Minimum input level: 570 mV

Line Out/Optical Digital Output

For Line Output Use =

Output impedance: 220 Ω;

(Combination Stereo Mini and Optical

Output Jack)

Rated output level: 1.8V;

Load impedance: 22 k Ω

For Optical Digital Output Use = Output

level: -21dBm to -15 dBm;

Emission wavelength: 630 nm to 690 nm

DC Input Jack

6V

USB Connection

Hi-speed USB, Mass Storage Class; System requirements: Macintosh* OS Version 10.2.8 or later; Windows*/PC OS Windows XP Media Center Edition 2005 and 2004, Windows XP Professional,

Windows XP Home Edition, Windows 2000

Professional (SP3 or later)

Memory Stick Slot

Memory Stick PRO (High Speed) media;

Note: Standard Memory Stick media not supported



XLR-1 Microphone Adapter

Features

Two balanced XLR inputs Switchable 48 V phantom power Can be mounted onto the bottom of the PCM-D1 or on the side (using supplied mounting hardware).



Applicable Models

PCM-D1 Portable Linear PCM Recorder

Specifications

Frequency range 20 to 50,000 Hz (+0, -2dB)

Input connectors

XLR-31-11C type connector (3-pin) x 2

Input impedance

600 Ω

Rated input level

-50dBm

Maximum input level

+4dBm

Output connector

Stereo mini jack

Output load impedance

 $600~\Omega$

Phantom power supply

DC 48V +/- 0.5V; 10 mA maximum

Battery requirements

Four AA alkaline batteries (supplied) or four AA nickel metal hydride rechargeable

batteries (not supplied)

Battery life

Approximately 40 hours (when using 2 mA + 2mA microphones and alkaline

AA batteries)

Dimensions

2.8" x 1.5" x 5.2" (w/h/d) not including projecting parts and controls

Weigh

Approximately 18.5 oz (for XLR-1 main unit, including 4 AA batteries); approximately 6.5 oz (for base plate and spacer plate)



SONY

Wireless Microphones

AN-820A352
CU-E672352
CU-E700
CU-F117353
CU-F780
CU-G780354
EC-1.5CF
K-1334355
MB-X6
MB-8N357
UTX-P1/62 358
LITY D1/67 250
UWP-C1/62
UWP-C1/67362
UWP-C2/62
UWP-C2/67365
UWP-C3/62366
UWP-C3/67
UWP-S1/62 368
UWP-S1/67
UWP-S2/62 370
UWP-S2/67
UWP-X1/62 372
UWP-X1/67 373
UWP-X2/62 374
UWP-X2/67 375
WD-850A
WRR-855B/62377
WRR-855B/67378
WRR-862B/62379
WRR-862B/67380
WRT-807B/62
WRT-807B/67
WRT-822B/62
WRT-822B/67383
WRT-847B/62
WRT-847B/67
WRT-8B/62
WRT-8B/67
WRU-806B/62
WRU-806B/67388
WRU-8N/62
WRU-8N/67

AN-820A UHF Antenna

Features

•Built-in RF amplifier (10 dB gain) •Easy installation on a wall or in a microphone stand with the supplied stand adaptor •Used in pairs for diversity reception •LED indication for installation check •External power supply provided from the MB-806A, WRR-850A/840A/820A or the WD-820A/880A via coaxial cable

Applicable Models

MB-806A UHF Tuner Base Unit (758 MHz to 862 MHz)

Supplied Accessories

Wall Bracket (1) Microphone Stand Bracket (1)





CU-E672 Capsule Unit

Features

Hyper cardioid electret condenser microphone capsule
A wide variety of applications in news-gathering, sports events and interviews
The supplied windscreen reduces wind noise and popping

Applicable Models

WRT-847B/62 UHF Synthesized Transmitter Unit WRT-847B/67 UHF Synthesized Transmitter Unit

Supplied Accessories

Urethane windscreen (1)

Specifications

Directivity:

Uni-directional (hyper cardioid)

Frequency response:

50 Hz to 16 kHz

Max. sound pressure level:

120 dB

Dimensions:

37 x 172 mm

(ø1 1/2 x 6 7/8 inches)

Mass:

150 g (5.3 oz)



CU-E700 Capsule Unit

Features

•Electret condenser microphone capsule with super cardioid polar pattern •Smooth frequency response for natural sound re-production •Suitable for critical vocal and speech applications

Applicable Models

WRT-847B/62 UHF Synthesized Transmitter Unit WRT-847B/67 UHF Synthesized Transmitter Unit

Specifications

170 g (6 oz)

Directivity:
Uni-directional (super cardioid)
Frequency response:
50 Hz to 18 kHz
Max. sound pressure level:
150 dB
Dimensions:
ø51 x 98 mm (ø2 1/8 x 3 7/8 inches)
Mass:



CU-F117 Capsule Unit

Features

•Dynamic microphone capsule with omni-directional polar pattern •Superb rejection for wind noise and popping

Designed for interview applications

Applicable Models

WRT-847B/62 UHF Synthesized Transmitter Unit WRT-847B/67 UHF Synthesized Transmitter Unit

Supplied Accessories

Urethane windscreen (1)

Specifications

Directivity:

Omni-directional

Frequency response:

50 Hz to 15 kHz

Dimensions:

ø44 x 105 mm (ø1 3/4 x 4 1/4 inches)

Mass:

170 g (6 oz)



CU-F780 Capsule Unit

Features

•Dynamic microphone capsule with super cardioid polar pattern •Uses the same high quality edgewise winding CCAW voice coil that is employed in the acclaimed Sony F-780 wired microphone •Designed for vocal applications including live music performance

Applicable Models

WRT-847B/62 UHF Synthesized Transmitter Unit WRT-847B/67 UHF Synthesized Transmitter Unit

Specifications

180 g (6.3 oz)

Directivity:
Uni-directional (super cardioid)
Frequency response:
50 Hz to 18 kHz
Dimensions:
ø51 x 90 mm (ø2 1/8 x 3 5/8 inches)



CU-G780 Capsule Unit

Features

•Dynamic microphone capsule with super cardioid polar pattern •Special design, based on the capsule of F-780 microphone, to cope with high sound pressure level vocals and incorporating outstanding feedback rejection •Designed for vocal use

200.g..00 .0. 100a. 0

Applicable ModelsWRT-847B/62 UHF Synthesized Transmitter
Unit
WRT-847B/67 UHF Synthesized Transmitter

Specifications

Directivity:

Uni-directional (super cardioid)

Frequency response:

50 Hz to 20 kHz

Dimensions:

ø51 x 90 mm (ø2 1/8 x 3 5/8 inches)

Mass:

180 g (6.3 oz)



EC-1.5CF Microphone Cable

Features

•Fitted with an XLR-3-11 connector and SMC9-4P connector •Allows a microphone with a 3-pin male XLR output connector to be connected to the WRT-822A/822B/8B bodypack transmitter •Cable length: 1.5 m (4.9 feet)



K-1334 BMP-XLR Conversion Cable (balanced)

Features

- •3.5 mm dia. (5/32 inch dia.), 3-pole mini phone jack with a lock mechanism to XLR-3-12C type connector
- •Designed for use with WRR-805A wireless portable tuner
- •Cable length: 460 mm (1.5 feet)



MB-X6 UHF Tuner Base Unit (798 MHz to 822 MHz)

Features

•Modular design, 1U height 19-inch rack •Accommodates up to six tuner modules for up to six simultaneous channels of operation •Use of WD-850A allows further multi-channel operation •Balanced XLR output connectors for each tuner and mix output •RF input attenuator switch (10 dB/0 dB) •Selectable output level: -58 dBm (for MIC) or -20 dBm (for LINE) at ±5 kHz deviation at 1kHz modulation •Auto channel assignment of additional receiver modules for instant programming of interference-free multi-channel operation. Automatically skips unusable channels and assigns clear channels. •Supplied passive antennas for rear mounting (with provision for front mounting)



(Tuner modules are not included)



Supplied Accessories

Antenna (2) AC power cord (1)

Optional Instructions

WD-850A UHF Antenna Divider

Specifications

Receiving frequency range: 798 MHz to 822 MHz Audio output level: -20 dBm/-58 dBm at reference deviation Audio output connector:

XLR-3-32 (x 7, balanced)

Antenna attenuator level:

0 dB or 10 dB

Antenna connector:

BNC-R type (x 2), 50Ω

Power requirements:

AC 230, 50/60 Hz

Power consumption:

30 W when accommodating six

uner modules

Power supply for antenna boosters:

DC 9 V (max. 100 mA)

mensions:

482 (W) x 44 (H) x 285 (D) mm

(19 x 1 3/4 x 11 1/4 inches)

Mass:

5.5 kg (12 lb 2 oz)

MB-8N Tuner Base Unit (CED)

Features

- •Uses a moduler design to accommodate up to four WRU-8N receiver modules. The built-in antenna divider allows up to four MB-8N tuner base units to be daisy-chained to form a 16-channel system. •Wide system dynamic range: 116 dB (typical) •PLL (Phase Locked Loop) frequency synthesized system •Space diversity reception for dependable RF reception
- •Advanced control settings from MB-8N front panel
- •Headphone monitor jack on MB-8N front panel
- •Selectable output level: Mic or Line level •A D-sub 15-pin connector (unbalanced) for sub audio output
- •Computer-based control over a simple Ethernet environment using supplied software •Auto channel assignment of additional receiver modules for instant programming of interference-free multi-channel operation. Automatically skips unusable channels and assigns open channels. •AC/DC (auto switch) operation •Use of WD-880A antenna divider allows further multi-channel operation •1U high 19-inch rack mountable



(The WRU-8N tuner module is not included.)



Supplied Accessories

AC power code (1)

CD-ROM (contains operation instructions and supplied software) (1)

Optional Accessories

WRU-8N UHF Synthesized Tuner Unit (6264U) WRU-8N UHF Synthesized Tuner Unit (6668U)

Specifications

MB-8N Tuner Base Unit

System dynamic range:

116 dB (typical)

Frequency response:

40 Hz to 20 kHz

Distortion:

Distortion:

1.0 % or less

Audio output level:

-20 dBm (LINE)/-58 dBm (MIC) at

reference deviation

Audio output connector:

XLR-3-32 type (x 4), balanced

Sub-audio output connector:

D-sub 15-pin female, unbalanced

Antenna attenuator level:

0 dB, 5 dB, 10 dB or 15 dB

Antenna connector:

Inputs: BNC-R type (x 2), 50 Ω (nominal) Outputs (for cascade connection): BNC-R

type (x 2), 50 Ω (nominal)

Monitor output connector:

6.3 mm dia. stereo mini jack (x 1)

Monitor output level:

12 mW

Network connector:

RJ-45 (x 1), 10BASE-T

Power requirements:

AC 120 V, 50/60 Hz

DC 10 to 24 V

Power available for connected AN-820A

antennas:

9 V, max. 100 mA

Power consumption:

50 W when accommodating four WRU-8N tuner units

Dimensions (W x H x D):

482 x 44 x 300 mm

(19 x 1 3/4 x 11 7/8 inches)

Mass

3.7 kg (8 lb 6 oz)

Supplied software for computer-based

System requirements:

PC:

IBM PC/AT compatible

OS:

Windows 98SE/Windows 2000/

Windows Me/Windows NT 4.0 (ST6a)

Memory capacity:

128 MB RAM or more

CPU:

Intel Pentium 400 MHz or faster

Display:

1024 x 768 screen resolution or higher,

256 color display or higher

Network interface:

10/100 BASE-T Network interface card

Hard disc drive:

200 MB or more remaining, after MB-8N

supplied software and other

applications are installed

UTX-P1/62 UHF Synthesized Transmitter (62CE7)

Features

•Plug-on transmitter designed for use with the UWP Series tuners • Operates over a wide 24 MHz frequency band within the range of 798 MHz to 822 MHz •Converts a wired microphone to a wireless microphone via an XLR connector •Compact and lightweight body provides balanced handling •Attenuator function allows adjustment of the microphone-input level •Durable connecting mechanism with a microphone for dependable operation •50 mW RF power output for stable and long-distance transmission •MIC/LINE input level switchable •A backlit LCD provides extensive information, including the operating channel number and frequency in MHz, attenuator level, audio-input status, RF-output status, transmitter battery status, and accumulated operating time •An LED indicator for audio-input status •Approximately six hours of continuous operation with two AA-size alkaline (LR6) batteries •Supplied with a soft case



Supplied Accessories

Softcase (1)

Specifications

Oscillator

Crystal-controlled PLL synthesiser

Type of emission

F3E

Carrier frequencies

798 MH to 822 MHz

(TV channels 62 to 64)

RF power output

50 mW

Antenna

Integral type

Pilot tone signal

32 kHz

Frequency response

50 Hz to 18 kHz (typical)

Reference deviation

±10 kHz (-60 dBV, 1kHz input)

Signal-to-noise ratio

60 dB or more (±10 kHz deviation at

1 kHz modulation, A-weighted)

Audio attenuator adjustment range 0 to 21 dB (in 3 dB steps)

Audio input level

MIC input position: -60 dBV

(at 0 dB attenuator level),

LINE input position: +4 dBu

Audio input connector

XLR-3-11C type

Indicators

Operating channel number/frequency, attenuator level, audio input status,

RF-output status, transmitter battery status, and accumulated operating time

LED

Audio-input status

Power requirements

DC 3.0 V (with two AA-size batteries)

Rattery life

Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F) at 50 mW

output

Dimensions (W x H x D)

44 x 99 x 36 mm

(1 3/4 x 4 x 1 7/6 inches)

Mass

Approx. 185 g (6.5 oz) including batteries

UTX-P1/67 UHF Synthesized Transmitter (67CE7)

Features

•Plug-on transmitter designed for use with the UWP Series tuners • Operates over a wide 24 MHz frequency band within the range of 838 MHz to 864 MHz •Converts a wired microphone to a wireless microphone via an XLR connector •Compact and lightweight body provides balanced handling •Attenuator function allows adjustment of the microphone-input level •Durable connecting mechanism with a microphone for dependable operation •50 mW RF power output for stable and long-distance transmission •MIC/LINE input level switchable •A backlit LCD provides extensive information, including the operating channel number and frequency in MHz, attenuator level, audio-input status, RF-output status, transmitter battery status, and accumulated operating time •An LED indicator for audio-input status •Approximately six hours of continuous operation with two AA-size alkaline (LR6) batteries •Supplied with a soft case



Supplied Accessories

Softcase (1)

Specifications

Oscillator

Crystal-controlled PLL synthesiser

Type of emissionF

F3F

Carrier frequencies

838 MH to 864 MHz

(TV channels 67 to 69)

RF power output

50 mW

Antenna

Integral type

Pilot tone signal

32 kHz

Frequency response

50 Hz to 18 kHz (typical)

Reference deviation

±10 kHz (-60 dBV, 1kHz input)

Signal-to-noise ratio

60 dB or more (±10 kHz deviation at

1 kHz modulation, A-weighted)

Audio attenuator adjustment range 0 to 21 dB (in 3 dB steps)

Audio input level

MIC input position: -60 dBV

(at 0 dB attenuator level),

LINE input position: +4 dBu

Audio input connector

XLR-3-11C type

Indicators

Operating channel number/frequency, attenuator level, audio input status,

RF-output status, transmitter battery status, and accumulated operating time

LED

Audio-input status

Power requirements

DC 3.0 V (with two AA-size batteries)

Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F) at 50 mW

output

Dimensions (W x H x D)

44 x 99 x 36 mm

(1 3/4 x 4 x 1 7/6 inches)

Mass

Approx. 185 g (6.5 oz) including batteries

UWP-C1/62 UHF Synthesized Wireless Microphone Package (62CE7)

Features

· Consists of an omni-directional lavalier microphone, bodypack transmitter and portable tuner . Suitable for a wide range of applications, from news gathering and interviews to talk shows and conferences . The transmitter and tuner operate over a wide 24 MHz frequency band within the range of 798 MHz to 822 MHz •The bodypack transmitter incorporates selectable RF-output level (5 mW or 30 mW), and adjustable audio-attenuator level •The portable tuner employs a space diversity reception system, angle-adjustable antennas, an RF squelch function and headphone-monitoring facility • Approx. six hours of continuous operation with two AA-size (LR6) alkaline batteries on both the transmitter and tuner •An LCD screen on the transmitter provides extensive information: operating channel/frequency, attenuator level, RF-output level setting (Low/High), audio-input status, RF-output status, transmitter-battery status and accumulated operating time •An LCD screen on the tuner provides extensive information: operating channel/frequency, audio-output status, RF-input level, tuner-battery status and accumulated operating time . The bodypack transmitter is equipped with a 3.5 mm dia., 3-pole mini-jack input connector with lock mechanism, which accepts the output of any lavalier microphone equipped with a 3.5 mm dia. mini plug, as well as the output of the supplied lavalier microphone

Applicable Models

DSR-PD170P DVCAM Camcorder

Supplied Accessories

Windscreen (1)
Microphone-holder clip (1)
Belt clip (for the bodypack transmitter) (1)
Belt clip (for the portable tuner) (1)
Microphone stand adaptor (for the portable tuner) (1)
Screw adaptor (for use in combination with the microphone stand adaptor) (1)
Shoe-mount adaptor (1)
Output cable (3-pole mini-plug/XLR-type) (1)



Wireless Microphones

Specifications

- Lavalier Microphone

Microphone capsule:

Omni-directional, electret condenser type

Bodypack Transmitter

Oscillator:

Crystal-controlled PLL synthesizer

Type of emission:

F3F

Carrier frequencies:

798 MHz to 822 MHz (TV channels 62

to 64)

RF power output:

30 mW or 5 mW (selectable)

Antenna:

 $1/4 \lambda$ wave length wire

Pilot tone signal:

32 kHz

System frequency response:

50 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (-60 dBV*, 1kHz input)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz

modulation, A-weighted)

Audio attenuator adjustable range:

0 to 21 dB (in 3 dB steps)

Audio input level:

-60 dBV* (at 0 dB attenuator level)

Audio input connector:

3.5 mm (5/32 inch) dia., 3-pole mini jack

Indicators

LCD: Operating channel

number/frequency, attenuator level,

RF-output level (High/Low), audio input status, RF-output status, transmitter battery

status, and accumulated operating time

LED: Power status

Power requirements:

DC 3.0 V

(with two AA-size alkaline (LR6) batteries)

Battery life:

Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F) at 30 mW

output

Dimensions:

63 (W) x 100 (H) x 27 (D) mm

(2 1/2 x 4 x 1 1/8 inches)

Mass

Approx. 140 g (4.9 oz) including batteries

Portable Tuner

Oscillator

Crystal-controlled PLL synthesizer

Type of reception:

Space diversity

Receiving frequencies:

798 MHz to 822 MHz (TV channels 62

to 64)

Antenna:

 $1/4 \ \lambda$ wave length wire

Pilot-tone signal:

32 kHz

RF squelch level:

15 dBµ

System frequency response:

50 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (at 1kHz modulation)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz

modulation, A-weighted)

Audio output connector:

3.5 mm (5/32 inch) dia., 3-pole mini jack

(x 1), unbalanced

Audio output level:

-58 dBm

Monitor output connector:

3.5 mm (5/32 inch) dia., stereo mini jack

(x 1)

Monitor output level:

5 mW (at 16 Ω)

Indicators

LCD: Operating channel

number/frequency, audio-output status,

RF-input level, tuner battery status, and

accumulated operating time

LED: RF-input status

Power requirements: DC 3.0 V

(Two AA-size alkaline (LR6) batteries)

Battery life:

Approx. 6 hours with Sony AA-size alkaline

(LR6) batteries at 25 °C (77 °F)

Dimensions:

63.0 (W) x 100.0 (H) x 30.0 (D) mm

(2 1/2 x 4 x 1 3/16 inches)

Mass.

Approx. 180 g (6 oz) including batteries

UWP-C1/67 UHF Synthesized Wireless Microphone Package (67CE7)

Features

· Consists of an omni-directional lavalier microphone, bodypack transmitter and portable tuner . Suitable for a wide range of applications, from news gathering and interviews to talk shows and conferences •The transmitter and tuner operate over a wide 24 MHz frequency band within the range of 838 MHz to 862 MHz • The bodypack transmitter incorporates selectable RF-output level (5 mW or 30 mW), and adjustable audio-attenuator level •The portable tuner employs a space diversity reception system, angle-adjustable antennas, an RF squelch function and headphone-monitoring facility •Approx. six hours of continuous operation with two AA-size (LR6) alkaline batteries on both the transmitter and tuner •An LCD screen on the transmitter provides extensive information: operating channel/frequency, attenuator level, RF-output level setting (Low/High), audio-input status, RF-output status, transmitter-battery status and accumulated operating time •An LCD screen on the tuner provides extensive information: operating channel/frequency, audio-output status, RF-input level, tuner-battery status and accumulated operating time •The bodypack transmitter is equipped with a 3.5 mm dia.. 3-pole mini-jack input connector with lock mechanism, which accepts the output of any lavalier microphone equipped with a 3.5 mm dia. mini plug, as well as the output of the supplied lavalier microphone



Applicable Models

DSR-PD170 DVCAM Camcorder

Supplied Accessories

Windscreen (1)
Microphone-holder clip (1)
Belt clip (for the bodypack transmitter) (1)
Belt clip (for the portable tuner) (1)
Microphone stand adaptor (for the portable tuner) (1)
Screw adaptor (for use in combination with the microphone stand adaptor) (1)
Shoe-mount adaptor (1)
Output cable (3-pole mini-plug/XLR-type) (1)

Wireless Microphones

Specifications

- Lavalier Microphone

Microphone capsule:

Omni-directional, electret condenser type

Bodypack Transmitter

Oscillator:

Crystal-controlled PLL synthesizer

Type of emission:

F3F

Carrier frequencies:

838 MHz to 862 MHz (TV channels 67

to 69)

RF power output:

30 mW or 5 mW (selectable)

Antenna:

 $1/4 \lambda$ wave length wire

Pilot tone signal:

32 kHz

System frequency response:

50 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (-60 dBV*, 1kHz input)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz

modulation, A-weighted)
Audio attenuator adjustable range:

0 to 21 dB (in 3 dB steps)

Audio input level:

-60 dBV* (at 0 dB attenuator level)

Audio input connector:

3.5 mm (5/32 inch) dia., 3-pole mini jack

Indicators

LCD: Operating channel

number/frequency, attenuator level,

RF-output level (High/Low), audio input status, RF-output status, transmitter battery

status, and accumulated operating time

LED: Power status

Power requirements:

DC 3.0 V

(with two AA-size alkaline (LR6) batteries)

Battery life:

Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F) at 30 mW output

Dimensions:

63 (W) x 100 (H) x 27 (D) mm

(2 1/2 x 4 x 1 1/8 inches)

Mass

Approx. 140 g (4.9 oz) including batteries

Portable Tuner

Oscillator

Crystal-controlled PLL synthesizer

Type of reception:

Space diversity

Receiving frequencies:

838 MHz to 862 MHz (TV channels 67

to 69)

Antenna:

 $1/4 \ \lambda$ wave length wire

Pilot-tone signal:

32 kHz

RF squelch level:

15 dBµ

System frequency response:

50 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (at 1kHz modulation)

System signal-to-noise ratio:

60 dB or more (± 5 kHz deviation at 1 kHz

modulation, A-weighted)

Audio output connector:

3.5 mm (5/32 inch) dia., 3-pole mini jack

(x 1), unbalanced

Audio output level:

-58 dBm

Monitor output connector:

3.5 mm (5/32 inch) dia., stereo mini jack

(v 1)

Monitor output level:

5 mW (at 16 Ω)

Indicators

LCD: Operating channel

number/frequency, audio-output status,

RF-input level, tuner battery status, and

accumulated operating time

LED: RF-input status

Power requirements:

DC 3.0 V

(Two AA-size alkaline (LR6) batteries)

Battery life:

Approx. 6 hours with Sony AA-size alkaline

(LR6) batteries at 25 °C (77 °F)

Dimensions:

63.0 (W) x 100.0 (H) x 30.0 (D) mm

(2 1/2 x 4 x 1 3/16 inches)

Mass:

Approx. 180 g (6 oz) including batteries

UWP-C2/62 UHF Synthesized Wireless Microphone Package (62CE7)

Features

- ·Consists of a handheld microphone and portable tuner
- Suitable for news gathering and for use in PA systems
- •The microphone and tuner operate over a wide 24 MHz frequency band within the range of 798 MHz to 822 MHz
- •The uni-directional, dynamic microphone incorporates selectable RF-output level (5 mW or 30 mW), and adjustable audio-attenuator level •The portable tuner employs a space diversity reception system and angle-adjustable antennas, an RF squelch function and headphone-monitoring facility •Approx. six hours of continuous operation with two AA-size (LR6) alkaline batteries on both the microphone and tuner •An internal LCD screen on the microphone provides extensive information: operating channel/frequency, attenuator level, RF-output level setting (Low/High), audio-input status, RF-output status, transmitter-battery status and accumulated operating time •An LCD screen on the tuner provides extensive information: operating channel/ frequency, audio-output status, RF-input level, tuner-battery status and accumulated operating time





Supplied Accessories

Shoe-mount adaptor (1)

Microphone holder (1)

Screw adaptor (for use in combination with the microphone holder) (1)

Microphone stand adaptor (for the portable

tuner) (1) Screw adaptor (for use in combination with

the microphone stand adaptor) (1) Belticlip (1)

Output cable (3-pole mini plug/XLR-type) (1)

Specifications

Handheld microphone

Oscillator

Crystal-controlled PLL synthesizer

Type of emission:

Carrier frequencies:

798 MHz to 822 MHz (TV channels 62 to 64)

RF power output:

30 mW or 5 mW (selectable)

1/4 λ wave length wire

Pilot tone signal:

32 kHz

System frequency response:

100 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (94 dB SPL*, 1kHz input)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz modulation, A-weighted)

Microphone capsule:

Dynamic capsule (uni-directional)

Audio attenuator adjustable range: 0 to 21 dB (in 3 dB steps)

Max. input sound pressure level:

151 dB SPL* (at 21 dB attenuator level)

Indicators

LCD: Operating channel

number/frequency, attenuator level, RF-output level (High/Low), audio input status, RF-output status, transmitter battery status, and accumulated operating time

LED: Power status

Power requirements:

DC 3.0 V

(with two AA-size alkaline (LR6) batteries)

Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F) at 30 mW output

Dimensions

52 dia. x 240 mm

(2 1/8 dia. x 9 1/2 inches)

Approx. 300 g (10.6 oz) including batteries

Portable Tuner

Crystal-controlled PLL synthesizer

Type of reception:

Space diversity

Receiving frequencies:

798 MHz to 822 MHz (TV channels 62

to 64)

1/4 λ wave length wire

Pilot-tone signal:

32 kHz

RF squelch level:

15 dBu

System frequency response: 100 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (at 1kHz modulation)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz modulation, A-weighted)

Audio output connector:

3.5 mm (5/32 inch) dia., 3-pole mini jack (x 1), unbalanced

Audio output level:

-58 dBm

Monitor output connector:

3.5 mm (5/32 inch) dia., stereo mini jack (x 1)

Monitor output level:

5 mW (at 16 Ω)

Indicators

LCD: Operating channel

number/frequency, audio-output status. RF-input level, tuner battery status, and

accumulated operating time LED: RF-input status

Power requirements:

DC 3.0 V

(Two AA-size alkaline (LR6) batteries)

Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F)

Dimensions:

63.0 (W) x 100.0 (H) x 30.0 (D) mm (2 1/2 x 4 x 1 3/16 inches)

Mass:

Approx. 180 g (6 oz) including batteries

*0 dB SPL = 20µ Pa.

UWP-C2/67 UHF Synthesized Wireless Microphone Package (67CE7)

Features

- ·Consists of a handheld microphone and portable tuner
- Suitable for news gathering and for use in PA systems
- •The microphone and tuner operate over a wide 24 MHz frequency band within the range of 838 MHz to 862 MHz
- •The uni-directional, dynamic microphone incorporates selectable RF-output level (5 mW or 30 mW), and adjustable audio-attenuator level •The portable tuner employs a space diversity reception system and angle-adjustable antennas, an RF squelch function and headphone-monitoring facility •Approx. six hours of continuous operation with two AA-size (LR6) alkaline batteries on both the microphone and tuner •An internal LCD screen on the microphone provides extensive information: operating channel/frequency, attenuator level, RF-output level setting (Low/High), audio-input status, RF-output status, transmitter-battery status and accumulated operating time •An LCD screen on the tuner provides extensive information: operating channel/frequency, audio-output status, RF-input level, tuner-battery status and accumulated operating time





Supplied Accessories

Shoe-mount adaptor (1)

Microphone holder (1)

Screw adaptor (for use in combination with the microphone holder) (1)

Microphone stand adaptor (for the portable tuner) (1)

Screw adaptor (for use in combination with the microphone stand adaptor) (1)

Belt clip (1)

Output cable (3-pole mini plug/XLR-type) (1)

Specifications

Handheld microphone

Oscillator

Crystal-controlled PLL synthesizer

Type of emission:

Carrier frequencies:

838 MHz to 862 MHz (TV channels 67

to 69)

RF power output:

30 mW or 5 mW (selectable)

1/4 λ wave length wire

Pilot tone signal:

32 kHz

System frequency response:

100 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (94 dB SPL*, 1kHz input)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz

modulation, A-weighted)

Microphone capsule:

Dynamic capsule (uni-directional)

Audio attenuator adjustable range:

0 to 21 dB (in 3 dB steps)

Max. input sound pressure level:

151 dB SPL* (at 21 dB attenuator level)

Indicators

LCD: Operating channel

number/frequency, attenuator level, RF-output level (High/Low), audio input status, RF-output status, transmitter battery status, and accumulated operating time

LED: Power status

Power requirements:

DC 3.0 V

(with two AA-size alkaline (LR6) batteries)

Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F) at 30 mW

output

Dimensions:

52 dia. x 240 mm

(2 1/8 dia. x 9 1/2 inches)

Approx. 300 g (10.6 oz) including batteries

Portable Tuner

Crystal-controlled PLL synthesizer

Type of reception:

Space diversity

Receiving frequencies:

838 MHz to 862 MHz (TV channels 67

to 69)

1/4 λ wave length wire

Pilot-tone signal:

32 kHz

RF squelch level:

15 dBu

System frequency response:

100 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (at 1kHz modulation)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz modulation, A-weighted)

Audio output connector:

3.5 mm (5/32 inch) dia., 3-pole mini jack

(x 1), unbalanced

Audio output level:

-58 dBm

Monitor output connector:

3.5 mm (5/32 inch) dia., stereo mini jack (x 1)

Monitor output level:

5 mW (at 16 Ω)

Indicators

LCD: Operating channel

number/frequency, audio-output status. RF-input level, tuner battery status, and

accumulated operating time

LED: RF-input status

Power requirements:

DC 3.0 V

(Two AA-size alkaline (LR6) batteries)

Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F)

Dimensions:

63.0 (W) x 100.0 (H) x 30.0 (D) mm (2 1/2 x 4 x 1 3/16 inches)

Mass:

Approx. 180 g (6 oz) including batteries

*0 dB SPL = 20µ Pa

UWP-C3/62 UHF Synthesized Wireless Microphone Package (62CE7)

Features

•The transmitter and tuner operate over a wide 24 MHz frequency band within the range of 798 MHz to 822 MHz •The plug-on transmitter converts a wired microphone to a wireless microphone via an XLR connection •Attenuator function of the transmitter allows adjustment of the microphone-input level •50 mW RF power output for stable and long-distance transmission •MIC/LINE input level switchable (Plug-on transmitter) • The portable tuner employs a space diversity reception system and angleadjustable antennas, an RF squelch function and headphone-monitoring facility •The tuner is equipped with a stereo mini jack with monitor-volume control · Approximately six hours of continuous operation with two AA-size batteries on both the transmitter and tuner • A backlit LCD on the transmitter provides extensive information, including the operating channel number and frequency in MHz, attenuator level, audio-input status, RF-output status, transmitter-battery status, and accumulated operating time •An LCD screen on the tuner

provides extensive information, including the operating channel number and its frequency in MHz, audio-output status, RF-input level, tuner-battery status, and





Supplied Accessories

accumulated operating time

Shoe-mount adaptor (1)
Belt clip (1)
Output cable (3-pole mini-plug/
XLR-type) (1)
Output cable (3-pole mini-plug/
stereo mini-plug) (1)
Softcase (1)

Operating instructions (1) **Applicable Models**

F-112 Dynamic Microphone

Specifications Plug-on Transmitter

Oscillator

Crystal-controlled PLL synthesiser

Type of emission

F3E

Carrier frequencies

798 MHz to 822 MHz

(TV channels 62 to 64)

RF power output

50 mW

Antenna

Integral type

Pilot-tone signal

32 kHz

Frequency response

50 Hz to 18 kHz (typical)

Reference deviation

±10 kHz (-60 dBV, 1kHz input)

± 10 KHZ (-60 dB) Signal-to-noise ratio

60 dB or more (±10 kHz deviation at 1 kHz modulation, A-weighted)

Audio attenuator adjustment range 0 to 21 dB (in 3 dB steps)

Audio input level

MIC input position: -60 dBV (at 0 dB attenuator level)

LINE input position: +4 dBu

Audio input connector

XLR-3-11C type

Indicators

LCD: operating channel number/frequency,

attenuator level, audio-input status, RF-output status, transmitter battery status.

and accumulated operating time

LED: audio-input status

Power requirements

DC 3.0 V (two AA-size batteries)

attory life

Approx. 6 hours with Sony AA-size alkaline

(LR6) batteries at 25 °C (77 °F)

at 50 mW output

Dimensions (W x H x D)

44 x 99 x 35 mm

(1 3/4 x 4 x 1 7/16 inches)

Mass

Approx. 185 g (6.5 oz) including batteries

Portable Tuner

Oscillator

Crystal-controlled PLL synthesiser

Type of reception

Space diversity

Receiving frequencies

798 MH to 822 MHz (TV channels 62 to 64)

Antenna

 $1/4 \lambda$ wave length wire

Pilot-tone signal

32 kHz

RF squelch level

15 dBµ

Frequency response

50 Hz to 18 kHz (typical)

Reference deviation

±5 kHz (at 1kHz modulation)

Signal-to-noise ratio

60 dB or more (±5 kHz deviation at

1 kHz modulation, A-weighted)

Audio output connector

3.5 mm (5/32 inch) dia.,

3-pole mini jack, unbalanced

Audio output level

-58 dBm

Monitor output connector

3.5 mm (5/32 inch) dia., stereo mini jack

Monitor output level

5 mW (at 16 Ω)

Indicators

LCD: operating channel number/frequency, audio-output status, RF-input level, tuner-

battery status, and accumulated operating time

LED: RF-input status

Power requirements

DC 3.0 V (two AA-size batteries)

Battery life

Approx. 6 hours with Sony

AA-size batteries at 25 °C (77 °F)

Dimensions (W x H x D)

63 x 100 x 30 mm

(2 1/2 x 4 x 1 3/16 inches)

Mass

Approx. 180 g (6 oz) including batteries

UWP-C3/67 UHF Synthesized Wireless Microphone Package (67CE7)

Features

•The transmitter and tuner operate over a wide 24 MHz frequency band within the range of 838 MHz to 864 MHz •The plug-on transmitter converts a wired microphone to a wireless microphone via an XLR connection •Attenuator function of the transmitter allows adjustment of the microphone-input level •50 mW RF power output for stable and long-distance transmission •MIC/LINE input level switchable (Plug-on transmitter) • The portable tuner employs a space diversity reception system and angleadjustable antennas, an RF squelch function and headphone-monitoring facility •The tuner is equipped with a stereo mini jack with monitor-volume control · Approximately six hours of continuous operation with two AA-size batteries on both the transmitter and tuner •A backlit LCD on the transmitter provides extensive information, including the operating channel number and frequency in MHz, attenuator level, audio-input status, RF-output status, transmitter-battery status, and accumulated operating time •An LCD screen on the tuner

provides extensive information, including the operating channel number and its frequency in MHz, audio-output status, RF-input level, tuner-battery status, and





Supplied Accessories

accumulated operating time

Shoe-mount adaptor (1) Belt clip (1) Output cable (3-pole mini-plug/ XLR-type) (1) Output cable (3-pole mini-plug/ stereo mini-plug) (1) Softcase (1)

Operating instructions (1) Applicable Models

F-112 Dynamic Microphone

Specifications Plug-on Transmitter

Oscillator

Crystal-controlled PLL synthesiser Type of emission

F3E

Carrier frequencies

838 MHz to 864 MHz

(TV channels 67 to 69)

RF power output

50 mW

Antenna

Integral type

Pilot-tone signal

32 kHz

Frequency response

50 Hz to 18 kHz (typical)

Reference deviation

±10 kHz (-60 dBV, 1kHz input)

Signal-to-noise ratio

60 dB or more (±10 kHz deviation at 1 kHz modulation, A-weighted)

Audio attenuator adjustment range 0 to 21 dB (in 3 dB steps)

Audio input level

MIC input position: -60 dBV (at 0 dB attenuator level). LINE input position: +4 dBu

Audio input connector

XLR-3-11C type

Indicators

LCD: operating channel number/frequency, attenuator level, audio-input status, RF-output status, transmitter battery status.

and accumulated operating time

LED: audio-input status

Power requirements

DC 3.0 V (two AA-size batteries)

Approx. 6 hours with Sony AA-size alkaline

(LR6) batteries at 25 °C (77 °F)

at 50 mW output

Dimensions (W x H x D)

44 x 99 x 35 mm

(1 3/4 x 4 x 1 7/16 inches)

Mass

Approx. 185 g (6.5 oz) including batteries

Portable Tuner

Oscillator

Crystal-controlled PLL synthesiser

Type of reception

Space diversity

Receiving frequencies

838 MHz to 864 MHz

(TV channels 67 to 69)

1/4 \(\lambda\) wave length wire

Pilot-tone signal

32 kHz

RF squelch level

15 dBu

Frequency response

50 Hz to 18 kHz (typical)

Reference deviation

±5 kHz (at 1kHz modulation)

Signal-to-noise ratio

60 dB or more (±5 kHz deviation at

1 kHz modulation, A-weighted)

Audio output connector

3.5 mm (5/32 inch) dia.,

3-pole mini jack, unbalanced

Audio output level

-58 dBm

Monitor output connector

3.5 mm (5/32 inch) dia., stereo mini jack

Monitor output level

5 mW (at 16 Ω)

Indicators

LCD: operating channel number/frequency, audio-output status, RF-input level, tunerbattery status, and accumulated operating time

LED: RF-input status

Power requirements

DC 3.0 V (two AA-size batteries)

Battery life

Approx. 6 hours with Sony AA-size batteries at 25 °C (77 °F)

Dimensions (W x H x D)

63 x 100 x 30 mm

(2 1/2 x 4 x 1 3/16 inches)

Approx. 180 g (6 oz) including batteries

UWP-S1/62 UHF Synthesized Wireless Microphone Package (62CE7)

Features

· Consists of a uni-directional lavalier microphone, bodypack transmitter and half-rack-size tuner •Suitable for use in PA systems •The transmitter and half-rack-size tuner operate over a wide 24 MHz frequency band within the range of 798 MHz to 822 MHz •The bodypack transmitter incorporates selectable RF-output level (5 mW or 30 mW), and adjustable audio-attenuator level

- •The half-rack-size tuner employs a space diversity reception system, angle-adjustable antennas, an RF squelch function and headphone-monitoring facility
- •Approx. six hours of continuous operation with two AA-size (LR6) alkaline batteries on the transmitter
- •An LCD screen on the transmitter provides extensive information: operating channel/frequency, attenuator level, RF-output level setting (Low/High), audio-input status, RF-output status, transmitter-battery status and accumulated operating time •An LCD screen on the tuner provides extensive information: operating channel/ frequency, audio-output status and RF-input level
- •The bodypack transmitter is equipped with a 3.5 mm dia, 3-pole mini-jack input connector with a lock mechanism, which accepts the output of any lavalier microphone equipped with a 3.5 mm dia, mini plug, as well as the output of the supplied lavalier microphone
- •The half-rack-size tuner is equipped with both XLR (balanced) and 1/4-inch phone (unbalanced) type output connectors. The output level on the XLR-type connector can be switched between MIC and LINE level.



Supplied Accessories

Windscreen (1) Microphone-holder clip (1) Belt clip (1) AC/DC adaptor (1)

Specifications

Lavalier Microphone

Microphone capsule:

Uni-directional, electret condenser type

Bodypack Transmitter

Crystal-controlled PLL synthesizer

Type of emission:

F3F

Carrier frequencies:

798 MHz to 822 MHz (TV channels 62 to 64)

RF power output:

30 mW or 5 mW (selectable)

Antenna:

 $1/4 \ \lambda$ wave length wire

Pilot tone signal:

32 kHz

Frequency response:

50 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (-60 dBV*, 1kHz input)

Signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz

modulation, A-weighted)

Audio attenuator adjustable range:

0 to 21 dB (in 3 dB steps)

Audio input level:

-60 dBV* (at 0 dB attenuator level)

Audio input connector:

3.5 mm (5/32 inch) dia., 3-pole mini jack Indicators

LCD: Operating channel number/frequency, attenuator level, RF-output level (High/Low), audio input status, RF-output status,

transmitter battery status, and accumulated

operating time

LED: Power status

Power requirements:

DC 3.0 V

(with two AA-size alkaline (LR6) batteries)

Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F) at 30 mW output

63 (W) x 100 (H) x 27 (D) mm (2 1/2 x 4 x 1 1/8 inches)

Approx. 140 g (4.9 oz) including batteries

Half 19-inch Rack-Size Tuner

Crystal-controlled PLL synthesizer

Type of reception:

Space diversity

Receiving frequencies:

798 MHz to 822 MHz (TV channels 62 to 64)

1/4 λ wave length wire

Pilot tone signal:

32 kHz

RF squelch level:

25 dBµ

Frequency response:

50 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (at 1kHz modulation)

Signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz modulation, A-weighted)

Audio output connector:

XLR-3-32 type (balanced) or 1/4-inch phone iack (unbalanced)

Audio output level:

XLR-3-32: -28 dBm (LINE level) or -58 dBm (MIC level)

1/4-inch phone jack: -30 dBm

Monitor output connector:

1/4-inch stereo mini jack (1)

Monitor output level:

5 mW (at 16 Ω)

LCD: Operating channel number/frequency, audio-output status, RF-input level

LED: RF-input status

Power requirements: DC 9.0 V

Dimensions:

212.0 (W) x 44.0 (H) x 209.0 (D) mm (8 3/8 x 1 3/4 x 8 1/4 inches)

Approx. 1.3 kg (2 lb 14 oz)

UWP-S1/67 UHF Synthesized Wireless Microphone Package (67CE7)

Features

•Consists of a uni-directional lavalier microphone, bodypack transmitter and half-rack-size tuner •Suitable for use in PA systems •The transmitter and half-rack-size tuner operate over a wide 24 MHz frequency band within the range of 838 MHz to 862 MHz •The bodypack transmitter incorporates selectable RF-output level (5 mW or 30 mW), and adjustable audio-attenuator level

•The half-rack-size tuner employs a space diversity reception system, angle-adjustable antennas, an RF squelch function and headphone-monitoring facility

• Approx. six hours of continuous operation with two AA-size (LR6) alkaline batteries on the transmitter

•An LCD screen on the transmitter provides extensive information: operating channel/frequency, attenuator level, RF-output level setting (Low/High), audio-input status, RF-output status, transmitter-battery status and accumulated operating time •An LCD screen on the tuner provides extensive information: operating channel/frequency, audio-output status and RF-input level

- •The bodypack transmitter is equipped with a 3.5 mm dia, 3-pole mini-jack input connector with a lock mechanism, which accepts the output of any lavalier microphone equipped with a 3.5 mm dia. mini plug, as well as the output of the supplied lavalier microphone
- •The half-rack-size tuner is equipped with both XLR (balanced) and 1/4-inch phone (unbalanced) type output connectors. The output level on the XLR-type connector can be switched between MIC and LINE level.



Supplied Accessories

Windscreen (1) Microphone-holder clip (1)

Belt clip (1) AC/DC adaptor (1)

Specifications

Lavalier Microphone

Microphone capsule:

Uni-directional, electret condenser type

Bodypack Transmitter

Oscillator:

Crystal-controlled PLL synthesizer

Type of emission:

F3E

Carrier frequencies:

838 MHz to 862 MHz (TV channels 67 to 69)

RF power output:

30 mW or 5 mW (selectable)

Antenna:

 $1/4 \ \lambda$ wave length wire

Pilot tone signal:

32 kHz

Frequency response:

50 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (-60 dBV*, 1kHz input)

Signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz

modulation, A-weighted)

Audio attenuator adjustable range:

0 to 21 dB (in 3 dB steps)

Audio input level:

-60 dBV* (at 0 dB attenuator level)

Audio input connector:

3.5 mm (5/32 inch) dia., 3-pole mini jack Indicators

LCD: Operating channel number/frequency, attenuator level, RF-output level (High/Low), audio input status, RF-output status,

transmitter battery status, and accumulated operating time

perating time

LED: Power status

Power requirements:

DC 3.0 V

(with two AA-size alkaline (LR6) batteries)

Battery life

Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F) at 30 mW output

Dimensions

63 (W) x 100 (H) x 27 (D) mm (2 1/2 x 4 x 1 1/8 inches)

Mass

Approx. 140 g (4.9 oz) including batteries

Half 19-inch Rack-Size Tuner

Occillator:

Crystal-controlled PLL synthesizer

Type of reception:

Space diversity

Receiving frequencies:

838 MHz to 862 MHz (TV channels 67 to 69)

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1/4 λ wave length wire

Pilot tone signal:

32 kHz

RF squelch level:

25 dBµ

Frequency response: 50 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (at 1kHz modulation)

Signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz

modulation, A-weighted)

Audio output connector:

XLR-3-32 type (balanced) or 1/4-inch phone jack (unbalanced)

Audio output level:

XLR-3-32: -28 dBm (LINE level) or -58 dBm (MIC level)

1/4-inch phone jack: -30 dBm

Monitor output connector:

1/4-inch stereo mini jack (1)

Monitor output level: 5 mW (at 16 Ω)

Sillivi (at 10 2

ndicators

LCD: Operating channel number/frequency, audio-output status, RF-input level LED: RF-input status

Power requirements:

DC 9.0 V

Dimensions:

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212.0 (W) x 44.0 (H) x 209.0 (D) mm (8 3/8 x 1 3/4 x 8 1/4 inches)

Mass:

Approx. 1.3 kg (2 lb 14 oz)

UWP-S2/62 UHF Synthesized Wireless Microphone Package (62CE7)

Features

•Consists of a handheld microphone and half-rack-size tuner •Suitable for use in PA systems •The microphone and half-rack-size tuner operate over a wide 24 MHz frequency band within the range of 798 MHz to 822 MHz •The uni-directional, dynamic microphone incorporates selectable RF-output level (5 mW or 30 mW), and adjustable audio-attenuator level •The half-rack-size tuner employs a space diversity reception system, angle-adjustable antennas, an RF squelch function and headphone-monitoring facility •Approx. six hours of continuous operation with two AA-size (LR6) alkaline batteries on the microphone •An internal LCD screen on the microphone provides extensive information: operating channel/frequency, attenuator level, RF-output level setting (Low/High), audio-input status, RF-output status, transmitter-battery status and accumulated operating time •An LCD screen on the tuner provides extensive information: operating channel/frequency, audio-output status and RF-input level •The half-rack-size tuner is equipped with both XLR (balanced) and 1/4-inch phone (unbalanced) type output connectors. The output level on the XLR-type connector can be switched between MIC and LINE level.





Supplied Accessories

Microphone holder (1) Screw adaptor (for use in combination with the microphone holder) (1) AC/DC adaptor (1)

SpecificationsHandheld Microphone

Oscillator

Crystal-controlled PLL synthesizer Type of emission:

F3E

Carrier frequencies:

798 MHz to 822 MHz (TV channels 62 to 64)

RF power output:

30 mW or 5 mW (selectable)

Antenna

1/4 λ wave length wire

Pilot tone signal:

32 kHz

System frequency response:

100 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (94 dB SPL*, 1kHz input)

±5 KHZ (94 dB SPL*, TKH).

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz modulation, A-weighted)

Microphone capsule:

Dynamic capsule (uni-directional)

Audio attenuator adjustable range:

0 to 21 dB (in 3 dB steps)

Max. input sound pressure level:

151 dB SPL* (at 21 dB attenuator level)

Indicators

LCD: Operating channel number/frequency, attenuator level, RF-output level (High/Low), audio input status, RF-output status, transmitter battery status, and accumulated operating time LED: Power status

Power requirements:

DC 3.0 V

(with two AA-size alkaline (LR6) batteries)

Battery life:

Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F) at 30 mW output

Dimensions:

52 dia. x 240 mm

(2 1/8 dia. x 9 1/2 inches)

Mass:

Approx. 300 g (10.6 oz) including batteries

Half 19-inch Rack-Size Tuner

Oscillator:

Crystal-controlled PLL synthesizer

Type of reception:

Space diversity

Receiving frequencies:

798 MHz to 822 MHz (TV channels 62

to 64)

Antenna:

 $1/4~\lambda$ wave length wire

Pilot tone signal:

32 kHz

RF squelch level:

25 dBu

System frequency response:

100 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (at 1kHz modulation)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz modulation, A-weighted)

Audio output connector:

XLR-3-32 type (balanced) or 1/4-inch phone jack (unbalanced)

Audio output level:

XLR-3-32: -28 dBm (LINE level) or -58 dBm (MIC level)

1/4-inch phone jack: -30 dBm

Monitor output connector:

1/4-inch stereo mini jack (1)

Monitor output level:

5 mW (at 16 Ω)

Indicators

LCD: Operating channel

number/frequency, audio-output status,

RF-input level

LED: RF-input status Power requirements:

DC 9.0 V

DC 9.0 V

Dimensions:

212.0 (W) x 44.0 (H) x 209.0 (D) mm (8 3/8 x 1 3/4 x 8 1/4 inches)

Mass:

Approx. 1.3 kg (2 lb 14 oz)

*0 dB SPL = 20µ Pa.

UWP-S2/67 UHF Synthesized Wireless Microphone Package (67CE7)

Features

•Consists of a handheld microphone and half-rack-size tuner •Suitable for use in PA systems •The microphone and half-rack-size tuner operate over a wide 24 MHz frequency band within the range of 838 MHz to 862 MHz •The uni-directional, dynamic microphone incorporates selectable RF-output level (5 mW or 30 mW), and adjustable audio-attenuator level •The half-rack-size tuner employs a space diversity reception system, angle-adjustable antennas, an RF squelch function and headphone-monitoring facility • Approx. six hours of continuous operation with two AA-size (LR6) alkaline batteries on the microphone •An internal LCD screen on the microphone provides extensive information: operating channel/frequency, attenuator level, RF-output level setting (Low/High), audio-input status, RF-output status, transmitter-battery status and accumulated operating time •An LCD screen on the tuner provides extensive information: operating channel/frequency, audio-output status and RF-input level •The half-rack-size tuner is equipped with both XLR (balanced) and 1/4-inch phone (unbalanced) type output connectors. The output level on the XLR-type connector can be switched between MIC and LINE level.





Supplied Accessories

Microphone holder (1) Screw adaptor (for use in combination with the microphone holder) (1) AC/DC adaptor (1)

Specifications Handheld Microphone

Oscillator:

Crystal-controlled PLL synthesizer Type of emission:

F3E

Carrier frequencies:

838 MHz to 862 MHz (TV channels 67 to 69)

RF power output:

30 mW or 5 mW (selectable)

1/4 λ wave length wire

Pilot tone signal:

32 kHz

System frequency response:

100 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (94 dB SPL*, 1kHz input)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz modulation, A-weighted)

Microphone capsule:

Dynamic capsule (uni-directional)

Audio attenuator adjustable range:

0 to 21 dB (in 3 dB steps)

Max. input sound pressure level:

151 dB SPL* (at 21 dB attenuator level)

Indicators

LCD: Operating channel number/frequency, attenuator level, RF-output level (High/Low), audio input status, RF-output status, transmitter battery status, and accumulated operating time LED: Power status

Power requirements:

DC 3.0 V

(with two AA-size alkaline (LR6) batteries)

Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F) at 30 mW output

Dimensions:

52 dia. x 240 mm

(2 1/8 dia. x 9 1/2 inches)

Mass

Approx. 300 g (10.6 oz) including batteries

Half 19-inch Rack-Size Tuner

Crystal-controlled PLL synthesizer

Type of reception:

Space diversity

Receiving frequencies:

838 MHz to 862 MHz (TV channels 67

to 69)

Antenna:

1/4 \(\lambda\) wave length wire

Pilot tone signal:

32 kHz

RF squelch level:

25 dBu

System frequency response:

100 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (at 1kHz modulation)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz modulation, A-weighted)

Audio output connector:

XLR-3-32 type (balanced) or 1/4-inch phone jack (unbalanced)

Audio output level:

XLR-3-32: -28 dBm (LINE level) or -58 dBm (MIC level)

1/4-inch phone jack: -30 dBm Monitor output connector:

1/4-inch stereo mini jack (1)

Monitor output level:

5 mW (at 16 Ω)

Indicators

LCD: Operating channel

number/frequency, audio-output status,

RF-input level

LED: RF-input status

Power requirements:

DC 9 0 V

Dimensions:

212.0 (W) x 44.0 (H) x 209.0 (D) mm (8 3/8 x 1 3/4 x 8 1/4 inches)

Approx. 1.3 kg (2 lb 14 oz)

*0 dB SPL = 20µ Pa.

UWP-X1/62 UHF Synthesized Wireless Microphone Package (62CE7)

Features

· Consists of a uni-directional lavalier microphone, bodypack transmitter and tuner module •Suitable for use in PA systems •Tuner modules can be installed into the SRP-X700P/X351P presentation mixer (max. two units), and a maximum of six modules can be installed in the MB-806A tuner base unit •The transmitter and tuner module operate over a wide 24 MHz frequency band within the range of 798 MHz to 822 MHz • The bodypack transmitter incorporates selectable RF-output level (5 mW or 30 mW), and adjustable audio-attenuator level •The tuner module incorporates a space diversity reception system and an RF squelch function · Approx. six hours of continuous operation with two AA-size (LR6) alkaline batteries on the transmitter •An LCD screen on the transmitter provides extensive information: operating channel/frequency, attenuator level, RF-output level setting (Low/High), audio-input status, RF-output status, transmitter-battery status and accumulated operating time •An LCD screen on the tuner provides extensive information: operating channel/frequency, audio-output status and RF-input level •The bodypack transmitter is equipped with a 3.5 mm dia.. 3-pole mini-jack input connector with a lock mechanism, which accepts the output of any lavalier microphone equipped with a 3.5 mm dia. mini plug, as well as the output of the supplied lavalier microphone



Supplied Accessories

Windscreen (1)

Microphone-holder clip (1)

Belt clip (1)

Specifications

Lavalier Microphone

Microphone capsule:

Uni-directional, electret condenser type

Bodypack Transmitter

Oscillator:

Crystal-controlled PLL synthesizer

Type of emission:

F3F

Carrier frequencies:

798 MHz to 822 MHz (TV channels 62

to 64)

RF power output:

30 mW or 5 mW (selectable)

 $1/4 \lambda$ wave length wire

Pilot tone signal:

32 kHz

System frequency response:

50 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (-60 dBV*, 1kHz input)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz

modulation, A-weighted)

Audio attenuator adjustable range:

0 to 21 dB (in 3 dB steps)

Audio input level:

-60 dBV* (at 0 dB attenuator level)

Audio input connector:

3.5 mm (5/32 inch) dia., 3-pole mini jack

Indicators

LCD: Operating channel

number/frequency, attenuator level,

RF-output level (High/Low), audio input

status, RF-output status, transmitter battery status, and accumulated operating time

LED: Power status Power requirements:

DC 3.0 V

(with two AA-size alkaline (LR6) batteries)

Battery life:

Approx. 6 hours with Sony AA-size alkaline

(LR6) batteries at 25 °C (77 °F) at 30 mW

output

Dimensions:

63 (W) x 100 (H) x 27 (D) mm

(2 1/2 x 4 x 1 1/8 inches)

Approx. 140 g (4.9 oz) including batteries

Tuner Module

Oscillator

Crystal-controlled PLL synthesizer

Type of reception:

Space diversity

Receiving frequencies:

798 MHz to 822 MHz (TV channels 62

to 64)

1/4 λ wave length wire

Pilot-tone signal:

32 kHz

RF squelch level:

25 dBµ

System frequency response:

50 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (at 1kHz modulation)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz

modulation, A-weighted)

Indicators

LCD: Operating channel

number/frequency, audio-output status,

RF-input level

LED: RF-input status

Power requirements:

DC 9.0 V

Dimensions:

56.6 (W) x 25.5 (H) x 121.0 (D) mm (2 1/2 x 1 1/16 x 4 7/8 inches)

Approx. 150 g (5.3 oz)

UWP-X1/67 UHF Synthesized Wireless Microphone Package (67CE7)

Features

· Consists of a uni-directional lavalier microphone, bodypack transmitter and tuner module •Suitable for use in PA systems •Tuner modules can be installed into the SRP-X700P/X351P presentation mixer (max. two units), and a maximum of six modules can be installed in the MB-806A tuner base unit •The transmitter and tuner module operate over a wide 24 MHz frequency band within the range of 838 MHz to 862 MHz •The bodypack transmitter incorporates selectable RF-output level (5 mW or 30 mW), and adjustable audio-attenuator level •The tuner module incorporates a space diversity reception system and an RF squelch function · Approx. six hours of continuous operation with two AA-size (LR6) alkaline batteries on the transmitter •An LCD screen on the transmitter provides extensive information: operating channel/frequency, attenuator level, RF-output level setting (Low/High), audio-input status, RF-output status, transmitter-battery status and accumulated operating time •An LCD screen on the tuner provides extensive information: operating channel/ frequency, audio-output status and RF-input level •The bodypack transmitter is equipped with a 3.5 mm dia.. 3-pole mini-jack input connector with a lock mechanism, which accepts the output of any lavalier microphone equipped with a 3.5 mm dia. mini plug, as well as the output of the supplied lavalier microphone



Supplied Accessories

Windscreen (1) Microphone-holder clip (1)

Belt clip (1)

Specifications Lavalier Microphone

Microphone capsule:

Uni-directional, electret condenser type

Bodypack Transmitter

Oscillator:

Crystal-controlled PLL synthesizer

Type of emission:

F3E

Carrier frequencies:

838 MHz to 862 MHz (TV channels 67

to 69)

RF power output:

30 mW or 5 mW (selectable)

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1/4 λ wave length wire

Pilot tone signal:

32 kHz

System frequency response:

50 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (-60 dBV*, 1kHz input)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz

modulation, A-weighted)

Audio attenuator adjustable range:

0 to 21 dB (in 3 dB steps)

Audio input level:

-60 dBV* (at 0 dB attenuator level)

Audio input connector:

3.5 mm (5/32 inch) dia., 3-pole mini jack

Indicators

LCD: Operating channel

number/frequency, attenuator level,

RF-output level (High/Low), audio input status, RF-output status, transmitter battery

status, and accumulated operating time

LED: Power status

Power requirements:

DC 3.0 V

(with two AA-size alkaline (LR6) batteries)

Battery life:

Approx. 6 hours with Sony AA-size alkaline

(LR6) batteries at 25 °C (77 °F) at 30 mW

output

Dimensions:

63 (W) x 100 (H) x 27 (D) mm

(2 1/2 x 4 x 1 1/8 inches)

Mass

Approx. 140 g (4.9 oz) including batteries

Tuner Module

Oscillator

Crystal-controlled PLL synthesizer

Type of reception:

Space diversity

Receiving frequencies:

838 MHz to 862 MHz (TV channels 67

to 69)

Antenna:

1/4 λ wave length wire

Pilot-tone signal:

32 kHz

RF squelch level:

 $25 \text{ dB}\mu$

System frequency response:

50 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (at 1kHz modulation)

System signal-to-noise ratio:

60 dB or more (± 5 kHz deviation at 1 kHz

modulation, A-weighted)

Indicators

LCD: Operating channel

number/frequency, audio-output status,

RF-input level

LED: RF-input status

Power requirements:

DC 9.0 V

Dimensions:

56.6 (W) x 25.5 (H) x 121.0 (D) mm

(2 1/2 x 1 1/16 x 4 7/8 inches)

Mass:

Approx. 150 g (5.3 oz)

UWP-X2/62 UHF Synthesized Wireless Microphone Package (62CE7)

Features

- ·Consists of a handheld microphone and tuner module
- Suitable for use in PA systems
 Tuner modules can be installed into the SRP-X700P/X351P presentation mixer (max. two units), and a maximum of six modules can be installed in the MB-806A tuner base unit
- •The microphone and tuner module operate over a wide 24 MHz frequency band within the range of 798 MHz to 822 MHz •The uni-directional, dynamic microphone incorporates selectable RF-output level (5 mW or 30 mW), and adjustable audio-attenuator level
- •The tuner module incorporates a space diversity reception system and an RF squelch function
- · Approx. six hours of continuous operation with two AA-size (LR6) alkaline batteries on the microphone
- ·An internal LCD screen on the microphone provides extensive information: operating channel/frequency, attenuator level, RF-output level setting (Low/High), audio-input status, RF-output status, transmitter-battery status and accumulated operating time •An LCD screen on the tuner provides extensive information: operating channel/frequency, audio-output status and RF-input level





Supplied Accessories

Microphone holder (1)

Screw adaptor (for use in combination with the microphone holder) (1)

Specifications

Handheld Microphone

Oscillator

Crystal-controlled PLL synthesizer

Type of emission:

Carrier frequencies:

798 MHz to 822 MHz (TV channels 62 to 64)

RF power output:

30 mW or 5 mW (selectable)

Antenna:

1/4 \(\lambda\) wave length wire

Pilot tone signal:

32 kHz

System frequency response:

100 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (94 dB SPL*, 1kHz input)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz

modulation, A-weighted)

Microphone capsule:

Dynamic capsule (uni-directional)

Audio attenuator adjustable range:

0 to 21 dB (in 3 dB steps)

Max. input sound pressure level: 151 dB SPL* (at 21 dB attenuator level)

LCD: Operating channel number/frequency, attenuator level, RF-output level (High/Low), audio input status, RF-output status, transmitter battery status, and accumulated operating time

LED: Power status

Power requirements: DC 3.0 V

(with two AA-size alkaline (LR6) batteries)

Battery life:

Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F) at 30 mW output

52 dia. x 240 mm

(2 1/8 dia. x 9 1/2 inches)

Approx. 300 g (10.6 oz) including batteries

Tuner Module

Oscillator

Crystal-controlled PLL synthesizer

Type of reception:

Space diversity

Receiving frequencies:

798 MHz to 822 MHz (TV channels 62 to 64)

 $1/4 \lambda$ wave length wire

Pilot-tone signal:

32 kHz

RF squelch level:

25 dBu

System frequency response:

100 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (at 1kHz modulation)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz

modulation, A-weighted)

Indicators

LCD: Operating channel number/frequency,

audio-output status, RF-input level

LED: RF-input status

Power requirements:

DC 9.0 V

Dimensions:

56.6 (W) x 25.5 (H) x 121.0 (D) mm (2 1/2 x 1 1/16 x 4 7/8 inches)

Mass

Approx. 150 g (5.3 oz)

UWP-X2/67 UHF Synthesized Wireless Microphone Package (67CE7)

Features

- ·Consists of a handheld microphone and tuner module
- Suitable for use in PA systems
 Tuner modules can be installed into the SRP-X700P/X351P presentation mixer (max. two units), and a maximum of six modules can be installed in the MB-806A tuner base unit
- •The microphone and tuner module operate over a wide 24 MHz frequency band within the range of 838 MHz to 862 MHz •The uni-directional, dynamic microphone incorporates selectable RF-output level (5 mW or 30 mW), and adjustable audio-attenuator level
- •The tuner module incorporates a space diversity reception system and an RF squelch function
- · Approx. six hours of continuous operation with two AA-size (LR6) alkaline batteries on the microphone
- •An internal LCD screen on the microphone provides extensive information: operating channel/frequency, attenuator level, RF-output level setting (Low/High), audio-input status, RF-output status, transmitter-battery status and accumulated operating time •An LCD screen on the tuner provides extensive information: operating channel/frequency, audio-output status and RF-input level





Supplied Accessories

Microphone holder (1)

Screw adaptor (for use in combination with the microphone holder) (1)

Specifications

Handheld Microphone

Oscillator

Crystal-controlled PLL synthesizer

Type of emission:

Carrier frequencies:

838 MHz to 862 MHz (TV channels 67 to 69)

RF power output:

30 mW or 5 mW (selectable)

Antenna:

1/4 \(\lambda\) wave length wire

Pilot tone signal:

32 kHz

System frequency response:

100 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (94 dB SPL*, 1kHz input)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz

modulation, A-weighted)

Microphone capsule:

Dynamic capsule (uni-directional)

Audio attenuator adjustable range:

0 to 21 dB (in 3 dB steps)

Max. input sound pressure level:

151 dB SPL* (at 21 dB attenuator level)

Indicators

LCD: Operating channel number/frequency, attenuator level, RF-output level (High/Low), audio input status, RF-output status, transmitter battery status, and accumulated operating time

LED: Power status

Power requirements: DC 3.0 V

(with two AA-size alkaline (LR6) batteries)

Battery life:

Approx. 6 hours with Sony AA-size alkaline (LR6) batteries at 25 °C (77 °F) at 30 mW output

52 dia. x 240 mm

(2 1/8 dia. x 9 1/2 inches)

Approx. 300 g (10.6 oz) including batteries

Tuner Module

Oscillator

Crystal-controlled PLL synthesizer

Type of reception:

Space diversity

Receiving frequencies:

838 MHz to 862 MHz (TV channels 67 to 69)

 $1/4 \lambda$ wave length wire

Pilot-tone signal:

32 kHz

RF squelch level:

25 dBu

System frequency response:

100 Hz to 18 kHz (typical)

Reference deviation:

±5 kHz (at 1kHz modulation)

System signal-to-noise ratio:

60 dB or more (±5 kHz deviation at 1 kHz

modulation, A-weighted)

Indicators

LCD: Operating channel number/frequency,

audio-output status, RF-input level

LED: RF-input status

Power requirements:

DC 9.0 V

Dimensions:

56.6 (W) x 25.5 (H) x 121.0 (D) mm

(2 1/2 x 1 1/16 x 4 7/8 inches)

Mass

Approx. 150 g (5.3 oz)

WD-850A UHF Antenna Divider (758 MHz to 862 MHz)

Features

- •Provides diversity output for up to four receivers
- •Multi-channel operation by combination with tuners such as the MB-8N and WRU-8N, or MB-806A and WRU-806/806B •Cascade output can be used for an additional antenna divider or receiver •Two pairs of antenna input connectors for up to four AN-820A antennas to expand the operating area of a wireless microphone system •DC 9V power supply for the AN-820A UHF antennas via coaxial cable



Supplied Accessories

50 ohms BNC terminators (6)

Specifications

Frequency range: 758 MHz to 862 MHz Channel distribution: Inputs: 2 pairs Outputs: 4 pairs Input/output Impedance: $50~\Omega$

Cascade output:

Power supply for antenna booster (supplied from antenna input connectors):

DC 9 V
Power consumption:
6 W +outlet 300 W max.

Dimensions (W x H x D): 482 x 44 x 300 mm (19 x 1 3/4 x 11 7/8 inches) Mass: 4.2 kg (9 lb 4 oz)

WRR-855B/62 UHF Synthesized Diversity Tuner (62CE7)

Features

·Slot-in type space diversity tuner designed for use with Sony Betacam SX camcorders and HDCAM camcorder (HDW-750 only) •Weatherproof structure •Compact design and lightweight design; 280 g (9.9 oz) •A D-sub 15-pin connector for audio output to a Sony professional camcorder and for receiving its power supply from the HDCAM camcorder (HDW-750 only) or Betacam SX camcorder •Operates in the 798 MHz to 822 MHz (TV channels 62 to 64) UHF frequency band •LED indicators for AF/RF conditions •LCD indicator for operating channel •Switchable RF muting; ON (10 dBµ) or OFF •Use of the CA-WR855 (optional camera adaptor) allows the WRR-855B to be mounted on Sony DSR-300/500WS DVCAM camcorders and powered from the camcorder.

Supplied Accessories

Antenna (2)

Specifications

Receiving channel: 1 channel Receiving frequency:

798 MHz to 822 MHz

Oscillator:

1st: PLL synthesizer, 2nd: Crystal oscillator

De-emphasis:

50 µs

Reference deviation:

±5 kHz deviation at 1 kHz modulation (Max. deviation: ±40 kHz modulation)

Selectivity:

60 dB or more at ±250 kHz

Spurious rejection:

80 dB or more

Frequency range: 40 to 18 kHz (typical)

Signal-to-noise ratio:

60 dB or more at 60 dBµ RF input at reference deviation, A-weighted

RF muting level:

10 dBµ or OFF selectable

Audio output level:

-40 dBm at reference deviation

Audio output connector: D-sub 15-pin (1), balanced

Antenna connector:

BNC-R type (2), 50 Ω (nominal)

impedance

Operating voltage:

DC 7 V

Current consumption:

200 mA or less at external DC 7 V

Dimensions (W x H x D):

88.0 x 119.0 x 31.3 mm

(3 1/2 x 4 3/4 x 1 1/4 inches)

280 g (9.9 oz)







BTA-801: Camera mount adaptor

Use of the BTA-801 (optional portable tuner mount adaptor) allows the WRR-855B to be mounted on Sony professional camcorders and powered from the camcorder via a DC cable supplied with BTA-801

WRR-855B/67 UHF Synthesized Diversity Tuner (67CE7)

Features

•Slot-in type space diversity tuner designed for use with Sony Betacam SX camcorders and HDCAM camcorder (HDW-750 only) •Weatherproof structure •Compact design and lightweight design; 280 g (9.9 oz) •A D-sub 15-pin connector for audio output to a Sony professional camcorder and for receiving its power supply from the HDCAM camcorder (HDW-750 only) or Betacam SX camcorder •Operates in the 838 MHz to 862 MHz UHF frequency band (TV channels 67 and 69) •LED indicators for AF/RF conditions •LCD indicator for operating channel •Switchable RF muting; ON (10 dBµ) or OFF •Use of the CA-WR855 (optional camera adaptor) allows the WRR-855B to be mounted on Sony DSR-300/500WS DVCAM camcorders and powered from the camcorder.

Supplied Accessories

Antenna (2)

Optional Accessories

CA-WR855 Camera Adaptor BTA-801 Portable Tuner Mount Adaptor

Specifications

Receiving channel number:

1 channel

Receiving frequency:

838 MHz to 862 MHz

Oscillator:

1st: PLL synthesizer, 2nd: Crystal oscillator

De-emphasis:

50 μs

Reference deviation:

 ± 5 kHz deviation at 1 kHz modulation

(Max. deviation: ±40 kHz modulation)

Selectivity:

60 dB or more at ±250 kHz

Spurious rejection:

80 dB or more

Frequency range:

40 to 18 kHz (typical)

Signal-to-noise ratio:

60 dB or more at 60 dBµ RF input at reference deviation, A-weighted

RF muting level:

10 dBµ or OFF selectable

Audio output level:

-40 dBm at reference deviation

Audio output connector:

D-sub 15-pin (1), balanced

Antenna connector:

BNC-R type (2), 50 Ω (nominal)

impedance

Operating voltage:

DC 7 V

Current consumption:

200 mA or less at external DC 7 V

Dimensions (W x H x D):

88.0 x 119.0 x 31.3 mm

(3 1/2 x 4 3/4 x 1 1/4 inches)

Mass:

280 g (9.9 oz)







BTA-801: Camera mount adaptor

Use of the BTA-801 (optional portable tuner mount adaptor) allows the WRR-855B to be mounted on Sony professional camcorders and powered from the camcorder via a DC cable supplied with BTA-801

WRR-862B/62 UHF Synthesized Dual Diversity Tuner (62CE7)

Features

•Receives two independent RF signals on two separate channels •Operates over a 24 MHz frequency band within the range of 798 MHz to 822 MHz (TV channels 62 to 64) · A space diversity system is employed on both channels to eliminate signal dropout and provide stable reception •Compact and lightweight body; 400 g (14.1 oz) including batteries • Easily mounts on Sony professional camcorders with the supplied attachment kit and case (*) •Two SMC9-4S (Sony 4-pin) audio output connectors on the top panel •Rugged, diecast magnesium frame •LED indicators for each channel to indicate RF input level (green/red indication), diversity reception status and transmitter battery alarm •LCD screen for each channel to indicate operating channel/frequency, AF output level, RF input level, receiver battery status and accumulated battery operating time •Five hours of continuous operation with four AA-size (LR6) alkaline batteries Capable of operating on external power from Sony camcorders via the supplied DC cable •Selectable RF squelch threshold: 5 dBµ, 10 dBµ, 15 dBµ and OFF •A stereo mini jack for monitoring the output sound (switchable: Tuner 1/2/mixed) with headphones (A monitor volume control is also included.)



(*) A-8278-057-A mounting bracket (service part) may also be required.

Applicable Models

DVW-790P Digital Betacam Camcorder MSW-970P MPEG IMX Camcorder PDW-510 XDCAM Camcorder (DVCAM Recording) PDW-530 XDCAM Camcorder (MPEG

IMX/DVCAM Recording) Supplied Accessories

Attachment case (1)
Mounting plate (1)
DC cable (1)
Output cable (2)
Antenna (2)

Specifications

Receiving channel number:

2 channels

Receiving frequencies:

2 frequencies within 798 MHz to 822 MHz Local oscillators:

1st: PLL synthesizer, 2nd: Crystal oscillator De-emphasis:

50 µs

System dynamic range:

96 dB or more (101 dB typical)

Reference deviation:

 ± 5 kHz deviation at 1 kHz modulation (Max. deviation: ± 40 kHz deviation at 1 kHz modulation)

Selectivity:

60 dB or more at ±250 kHz

Spurious rejection:

70 dB or more

Frequency response:

40 Hz to 18 kHz (typical)

Signal-to-noise ratio:

60 dB or more (65 dB typical) at 60 dBµ RF input at reference deviation,

A-weighted

RF squelch level:

5 dBμ, 10 dBμ, 15 dBμ or OFF

Audio output level:

-58 dBm at reference deviation

Audio output connector:

SMC9-4S (Sony 4-pin, x 2), balanced

Antenna connector:

BNC-R (x 2), 50 Ω (nominal) impedance

Monitor output:

3.5 mm dia. mini jack (x 1, 5 mW),

Tuner 1/2/mixed selectable

Operating voltage:

Batteries: DC 6 V (four AA-size (LR6)

alkaline batteries) External: DC 12 V

EXIGINAL DC 12

Battery life:

Approx. 5 hours with Sony AA-size (LR6) alkaline batteries at 25 °C (77 °F)

Power consumption:

Batteries: approx. 230 mA at DC 6 $\rm V$

External: approx. 135 mA at DC 12 V

Dimensions (W x H x D):

89.0 x 120.0 x 29.5 mm

(3 5 /8 x 4 3 /4 x 1 3 /16 inches)

Mass:

Approx. 400 g (14.1 oz) including batteries

WRR-862B/67 UHF Synthesized Dual Diversity Tuner (67CE7)

Features

•Receives two independent RF signals on two separate channels •Operates over a 24 MHz frequency band within the range of 838 MHz to 862 MHz (TV channels 67 to 69) · A space diversity system is employed on both channels to eliminate signal dropout and provide stable reception •Compact and lightweight body; 400 g (14.1 oz) including batteries • Easily mounts on Sony professional camcorders with the supplied attachment kit and case (*) •Two SMC9-4S (Sony 4-pin) audio output connectors on the top panel •Rugged, diecast magnesium frame •LED indicators for each channel to indicate RF input level (green/red indication), diversity reception status and transmitter battery alarm •LCD screen for each channel to indicate operating channel/frequency, AF output level, RF input level, receiver battery status and accumulated battery operating time •Five hours of continuous operation with four AA-size (LR6) alkaline batteries Capable of operating on external power from Sony camcorders via the supplied DC cable •Selectable RF squelch threshold: 5 dBµ, 10 dBµ, 15 dBµ and OFF •A stereo mini jack for monitoring the output sound (switchable: Tuner 1/2/mixed) with headphones (A monitor volume control is also included.)



(*) A-8278-057-A mounting bracket (service part) may also be required.

Supplied Accessories

Attachment case (1) Mounting plate (1) DC cable (1) Output cable (2) Antenna (2)

Specifications

Receiving channel number:

2 channels

Receiving frequencies:

2 frequencies within 838 MHz to 862 MHz Local oscillators:

1st: PLL synthesizer, 2nd: Crystal oscillator De-emphasis:

50 μs

System dynamic range:

96 dB or more (101 dB typical)

Reference deviation:

 ± 5 kHz deviation at 1 kHz modulation (Max. deviation: ± 40 kHz deviation at

1 kHz modulation)

Selectivity:

60 dB or more at ±250 kHz

Spurious rejection:

70 dB or more

Frequency response:

40 Hz to 18 kHz (typical)

Signal-to-noise ratio

60~dB or more (65~dB typical) at $60~\text{dB}\mu$ RF input at reference deviation,

A-weighted

RF squelch level:

5 dBμ, 10 dBμ, 15 dBμ or OFF

Audio output level:

-58 dBm at reference deviation

Audio output connector:

SMC9-4S (Sony 4-pin, x 2), balanced

Antenna connector:

BNC-R (x 2), 50 Ω (nominal) impedance

Monitor output:

3.5 mm dia. mini jack (x 1, 5 mW), Tuner

1/2/mixed selectable

Operating voltage:

Batteries: DC 6 V (four AA-size (LR6)

alkaline batteries)

External: DC 12 V

Battery life:

Approx. 5 hours with Sony AA-size (LR6)

alkaline batteries at 25 °C (77 °F)

Power consumption:

Batteries: approx. 230 mA at DC 6 V

External: approx. 135 mA at DC 12 V

Dimensions (W x H x D):

89.0 x 120.0 x 29.5 mm

(3 5 /8 x 4 3 /4 x 1 3 /16 inches)

Mass.

Approx. 400 g (14.1 oz) including batteries

WRT-807B/62 UHF Synthesized Wireless Microphone (62CE7)

Features

- •Dynamic microphone capsule that is employed in the Sony F-780 professional vocal microphone •High sound quality for vocals powerful, crisp and clean sound •Operates over a 24 MHz frequency band within the range of 798 to 822 MHz (TV channels 62 to 64) •LCD for display of operating channel, AF/RF conditions, attenuator, battery status and accumulated operating
- attenuator, battery status and accumulated operating hours •Up to 5 hours of continuous operation with one AA-size (LR6) battery •10 mW RF power output
- •Lockable external power switch •Transmits a low battery alarm to most Sony receivers



Supplied Accessories

Microphone holder (PF1/2 thread) (1) Metal screw adaptor (PF1/2 to W3/8) (1)

Specifications

Oscillator:

Crystal controlled PLL synthesizer Type of emission:

110KF3E

Carrier frequencies:

798 to 822 MHz

Microphone capsule:

Dynamic Directivity:

I led allered

Uni-directional

RF power output:

10 mW (50 Ω load)

Antenna:

1/4 wave length wire antenna Reference deviation:

±5 kHz (94 dB SPL*, at 1 kHz)

Frequency response:

50 Hz to 15 kHz (typical)

Signal-to-noise ratio (A-weighted):

60 dB or more (A-weighted, at reference

deviation)

Attenuator adjustment range (PAD):

0 dB to 21 dB, variable in 3 dB steps

Max. input sound pressure level: 151 dB SPL* (with 21 dB attenuator)

Operating voltage:

DC 1.5 V (one AA-size (LR6) alkaline batterv)

Battery life:

Approx. 5 hours with Sony AA-size (LR6) alkaline battery at 25 °C (77 °F)

Dimensions (diameter x length):

51 x 238 mm (2 1/8 x 9 3/8 inches)

440 g (15.5 oz) including battery

*0 dB SPL = 2E-5 Pa

WRT-807B/67 UHF Synthesized Wireless Microphone (67CE7)

Features

- •Dynamic microphone capsule that is employed in the Sony F-780 professional vocal microphone •High sound quality for vocals powerful, crisp and clean sound •Operates over a 24 MHz frequency band within the range of 838 MHz to 862 MHz (TV channels 66 to 67)
- •LCD for display of operating channel, AF/RF conditions, attenuator, battery status and accumulated operating hours •Up to 5 hours of continuous operation with one AA-size (LR6) battery •10 mW RF power output
- •Lockable external power switch •Transmits a low battery alarm to most Sony receivers



Supplied Accessories

Microphone holder (PF1/2 thread) (1) Metal screw adaptor (PF1/2 to W3/8) (1)

Specifications

Oscillator:

Crystal controlled PLL synthesizer

Type of emission:

110KF3E

Carrier frequencies:

838 MHz to 862 MHz

Microphone capsule:

Dynamic

Directivity:

Uni-directional

RF power output: 10 mW (50 Ω load)

Antenna:

1/4 wave length wire antenna

Reference deviation:

±5 kHz (94 dB SPL*, at 1 kHz)

Frequency response:

50 Hz to 15 kHz (typical)

Signal-to-noise ratio (A-weighted):

60 dB or more (A-weighted, at reference deviation)

Attenuator adjustment range (PAD):

0 dB to 21 dB, variable in 3 dB steps

Max. input sound pressure level:

151 dB SPL* (with 21 dB attenuator)

Operating voltage:

DC 1.5 V (one AA-size (LR6) alkaline battery)

Battery life:

Approx. 5 hours with Sony AA-size (LR6) alkaline battery at 25 °C (77 °F)

Dimensions (diameter x length):

51 x 238 mm (2 1/8 x 9 3/8 inches) Mass:

440 g (15.5 oz) including battery

*0 dB SPL = 2E-5 Pa

WRT-822B/62 UHF Synthesized Wireless Transmitter (62CE7)

Features

•Approx. six hours of continuous operation with two AA-size (LR6) alkaline batteries •Compact and lightweight body; 63 (W) x 103 (H) x 17 (D) mm (2 1/2 x 4 1/8 x 11/18 inches) •Operates over a 24 MHz frequency band within the range of 798 MHz to 822 MHz (TV channels 62 to 64) •Easy-to-read LCD for comprehensive system information such as channel number, channel frequency in MHz, AF, RF, attenuator, battery status, accumulated working time •20 mW RF power output •Accepts professional lavalier microphones fitted with SMC9-4P type connector

Supplied Accessories

Soft case (1)

Optional Accessories

ECM-350BC Headset Microphone ECM-310BC Headset Microphone ECM-77BC Lavalier Microphone ECM-77SC Lavalier Microphone ECM-66BC Lavalier Microphone ECM-55BC Lavalier Microphone ECM-44BC Lavalier Microphone

Specifications

Oscillator

Crystal controlled PLL synthesizer Type of emission: 110KF3E Carrier frequency:

798 MHz to 822 MHz RF power output:

20 mW (50 Ω load) Antenna:

1/4 wave length whip antenna

Reference deviation:

±5 kHz (-60 dBV, 1 kHz)

Frequency response:

70 Hz to 15 kHz (typical)

Signal-to-noise ratio:

60 dB (A-weighted, at reference deviation)

Attenuator adjustment range (pad): 0 to 21 dB, variable in 3 dB steps

Max. input level:

-3 dBV (with 21 dB attenuator)

Operating voltage:

DC 3 V (two AA-size (LR6) alkaline batteries)

Battery life:

Approx. 6 hours with Sony AA-size (LR6) alkaline batteries at 25 $^{\circ}\text{C}$ (77 $^{\circ}\text{F})$

Dimensions:

63 (W) x 103 (H) x 17 (D) mm (2 1/2 x 4 1/8 x 11/16 inches)

Mass:

145 g (5.1 oz) including batteries



^{* 0} dBV = 1 Vr.m.s.

WRT-822B/67 UHF Synthesized Wireless Transmitter (67CE7)

Features

•Approx. six hours of continuous operation with two AA-size (LR6) alkaline batteries •Compact and lightweight body; 63 (W) x 103 (H) x 17 (D) mm (2 1/2 x 4 1/8 x 11/18 inches) •Operates over a 24 MHz frequency band within the range of 838 MHz to 862 MHz (TV channels 67 to 69) •Easy-to-read LCD for comprehensive system information such as channel number, channel frequency in MHz, AF, RF, attenuator, battery status, accumulated working time •20 mW RF power output •Accepts professional lavalier microphones fitted with SMC9-4P type connector

Supplied Accessories

Soft case (1)

Optional Accessories

ECM-350BC Headset Microphone ECM-310BC Headset Microphone ECM-77BC Lavalier Microphone ECM-77FC Lavalier Microphone ECM-66BC Lavalier Microphone ECM-55BC Lavalier Microphone ECM-44BC Lavalier Microphone

Specifications

Oscillator

Crystal controlled PLL synthesizer Type of emission: 110KF3E

Carrier frequency: 838 MHz to 862 MHz

RF power output: 20 mW (50 Ω load)

Antenna:

1/4 wave length whip antenna

Reference deviation:

±5 kHz (-60 dBV, 1 kHz)

Frequency response:

70 Hz to 15 kHz (typical)

Signal-to-noise ratio:

60 dB (A-weighted, at reference deviation)

Attenuator adjustment range (pad):

0 to 21 dB, variable in 3 dB steps

Max. input level:

-3 dBV (with 21 dB attenuator)

Operating voltage:

DC 3 V (two AA-size (LR6) alkaline

batteries)

Battery life:

Approx. 6 hours with Sony AA-size (LR6) alkaline batteries at 25 °C (77 °F)

Dimensions:

63 (W) x 103 (H) x 17 (D) mm (2 1/2 x 4 1/8 x 11/16 inches)

(Z 1/Z X

145 g (5.1 oz) including batteries



^{* 0} dBV = 1 Vr.m.s.

WRT-847B/62 UHF Synthesized Transmitter Unit (62CE7)

Features

•A choice of five optional microphone capsules, each with specific characteristics to suit a range of different applications (one capsule is required for the WRT-847B for function.) • Switchable audio compander time constant to suit different capsules •Selectable RF output level: 10 mW or 50 mW • Audio gain and attenuation settings within the range of +9 dB to -12 dB in 3 dB steps •Operates over a 24 MHz frequency band within the range of 798 MHz to 822 MHz (TV channels 62 and 64) •Lockable external power switch (ON/OFF) · Easy-to-read LCD with back light indicates operating conditions such as channel number/frequency, audio input level, compander time constant, battery status and accumulated battery operating time • Eight hours of continuous operation with two AA-size (LR6) alkaline batteries •Transmits a low battery warning to most Sony receivers



Supplied Accessories

Microphone holder (1) Stand adaptor (PF1/2 to NS5/8 type) (1) Soft case (1)

Channel color seal (1)

Optional Accessories

CU-F780 Capsule Unit CU-G780 Capsule Unit CU-E700 Capsule Unit CU-E672 Capsule Unit CU-F117 Capsule Unit

Specifications

Oscillator:

Crystal controlled PLL synthesizer

Type of emission: 110KF3E

Carrier frequencies:

798 MHz to 822 MHz

RF power output:

10 mW/50 mW selectable (50 Ω load)

Type of antenna:

1/4 wave length whip antenna

Pre-emphasis:

50 μs

Reference deviation:

±5 kHz (94 dB SPL*, 1kHz)

Frequency response:

50 Hz to 18 kHz (typical)

Signal to noise ratio:

60 dB or more (A-weighted, at reference deviation)

Audio gain control:

-12 dB to 9 dB (in 3 dB steps)

Max. input sound pressure level:

142 dB SPL* (with

CU-F780/G780/E700/F117 at audio gain

-12 dB)

120 dB SPL* (with CU-E672)

Power requirements:

DC 3.0 V (two LR6 AA-size alkaline

batteries)

Battery life:

Approx. 8 hours at 25°C (77°F) with Sony

AA-size (LR6) alkaline batteries, at 10 mW

RF output

Dimensions (diameter x length):

37 x 150 mm (1 1 /2 x 6 inches)

Mass:

Approx. 190 g (6.7 oz) including batteries

* 0 dB SPL = 2E-5 Pa.

WRT-847B/67 UHF Synthesized Transmitter Unit

Features

•A choice of five optional microphone capsules, each with specific characteristics to suit a range of different applications (one capsule is required for the WRT-847B for function.) • Switchable audio compander time constant to suit different capsules •Selectable RF output level: 10 mW or 50 mW • Audio gain and attenuation settings within the range of +9 dB to -12 dB in 3 dB steps •Operates over a 24 MHz frequency band within the range of 838 MHz to 862 MHz (TV channels 67 and 69) •Lockable external power switch (ON/OFF) · Easy-to-read LCD with back light indicates operating conditions such as channel number/frequency, audio input level, compander time constant, battery status and accumulated battery operating time • Eight hours of continuous operation with two AA-size (LR6) alkaline batteries •Transmits a low battery warning to most Sony receivers



Supplied Accessories

Microphone holder (1) Stand adaptor (PF1/2 to NS5/8 type) (1) Soft case (1)

Channel color seal (1) Optional Accessories

CU-F780 Capsule Unit CU-G780 Capsule Unit CU-E700 Capsule Unit CU-E672 Capsule Unit CU-F117 Capsule Unit

Specifications

Oscillator:

Crystal controlled PLL synthesizer Type of emission:

110KF3E

Carrier frequencies:

838 MHz to 862 MHz

RF power output:

10 mW/50 mW selectable (50 Ω load)

Type of antenna:

1/4 wave length whip antenna

Pre-emphasis:

50 μs

Reference deviation:

±5 kHz (94 dB SPL*, 1kHz)

Frequency response:

50 Hz to 18 kHz (typical)

Signal to noise ratio:

60 dB or more (A-weighted, at reference deviation)

Audio gain control:

-12 dB to 9 dB (in 3 dB steps)

Max. input sound pressure level:

142 dB SPL* (with

CU-F780/G780/E700/F117 at audio gain

-12 dB)

120 dB SPL* (with CU-E672)

Power requirements:

DC 3.0 V (two LR6 AA-size alkaline

batteries)

Battery life:

Approx. 8 hours at 25°C (77°F) with Sony AA-size (LR6) alkaline batteries, at 10 mW

RF output

Dimensions (diameter x length):

37 x 150 mm (1 1 /2 x 6 inches)

Mass:

Approx. 190 g (6.7 oz) including batteries

* 0 dB SPL = 2E-5 Pa.

WRT-8B/62 UHF Synthesized Transmitter (62CE7)

Features

•Extremely compact and lightweight: 140 g including batteries, 63 (W) x 83 (H) x 17 (H) mm •Operates over a 24 MHz frequency band within the range of 798 MHz to 822 MHz (TV channels 62 to 64) •Selectable RF output powers: 10 mW or 50 mW •Switchable input level: LINE level or MIC level •Variable audio attenuator •Approx. 13 hours of continuous operation with two AA-size (LR6) alkaline batteries at 10 mW output (Approx. six hours of operation at 50 mW output) • Removable antenna with SMA connector •LCD screen indicates extensive information such as operating channel/frequency, audio input level, RF output level, transmitter battery status and accumulated operating time •A red LED indicator flashes when the AF level exceeds a designated level •Transmits a low battery warning to Sony receivers •Rugged, die-cast magnesium frame •Accepts the output of lavalier microphones fitted with a Sony SMC9-4P connector

Supplied Accessories

Soft case (1) Spare battery case (1) Microphone cable (1)

Optional Accessories

ECM-77BC Lavalier Microphone ECM-77FC Lavalier Microphone ECM-66BC Lavalier Microphone ECM-55BC Lavalier Microphone ECM-44BC Lavalier Microphone ECM-310BC Headset Microphone ECM-350BC Headset Microphone

Specifications

Oscillator

Crystal-controlled PLL synthesizer Carrier frequencies: 798 MHz to 822 MHz

Oscillato

Crystal controlled PLL synthesizer RF power output:

50 mW/10 mW (e.r.p.) selectable

Antenna:

1/4 wavelength wire (SMA-J type connector)

Frequency response:

40 Hz to 20 kHz (typical)

Reference deviation:

 ± 5 kHz (-60 dBV, 1 kHz input, MIC position)

±5 kHz (-20 dBu, 1 kHz input, LINE position)

Signal-to-noise ratio:

60 dB or more (A-weighted)

Attenuator adjustment range:

0 to 40 dB, continuous

Max. input level:

-2 dBV (1 kHz input, MIC position) +38 dBu (1 kHz input, LINE position)

Audio input level:

MIC level/LINE level switchable

Audio input connector:

Sony SMC9-4S type

Power requirements:

DC 3.0 V (with two LR6 alkaline batteries)

Battery life:

Approx. 6 hours with Sony LR6 alkaline batteries at 25 °C (77 °F) at 50 mW output Approx. 13 hours with Sony LR6 alkaline batteries at 25 °C (77 °F) at 10 mW output

Dimensions: 63 (W) x 83 (H) x 17 (D) mm (2 1/2 x 3 3/8 x 11/16 inches)

Mass

Approx. 140 g (4.9 oz) including batteries



WRT-8B/67 UHF Synthesized Transmitter (67CE7)

Features

•Extremely compact and lightweight: 140 g including batteries, 63 (W) x 83 (H) x 17 (H) mm •Operates over a 24 MHz frequency band within the range of 838 MHz to 862 MHz (TV channels 67 to 69) •Selectable RF output powers: 10 mW or 50 mW •Switchable input level: LINE level or MIC level •Variable audio attenuator •Approx. 13 hours of continuous operation with two AA-size (LR6) alkaline batteries at 10 mW output (Approx. six hours of operation at 50 mW output) •Removable antenna with SMA connector •LCD screen indicates extensive information such as operating channel/frequency, audio input level, RF output level, transmitter battery status and accumulated operating time •A red LED indicator flashes when the AF level exceeds a designated level •Transmits a low battery warning to Sony receivers •Rugged, die-cast magnesium frame •Accepts the output of lavalier microphones fitted with a Sony SMC9-4P connector

Supplied Accessories

Soft case (1) Spare battery case (1) Microphone cable (1)

Optional Accessories

ECM-77BC Lavalier Microphone ECM-77FC Lavalier Microphone ECM-66BC Lavalier Microphone ECM-55BC Lavalier Microphone ECM-44BC Lavalier Microphone FCM-310BC Headset Microphone ECM-350BC Headset Microphone

Specifications

Oscillator:

Crystal-controlled PLL synthesizer Carrier frequencies: 838 MHz to 862 MHz Oscillator:

Crystal controlled PLL synthesizer RF power output:

50 mW/10 mW (e.r.p.) selectable

1/4 wavelength wire (SMA-J type connector)

Frequency response:

40 Hz to 20 kHz (typical)

Reference deviation:

±5 kHz (-60 dBV, 1 kHz input, MIC position)

±5 kHz (-20 dBu, 1 kHz input, LINE position)

Signal-to-noise ratio:

60 dB or more (A-weighted)

Attenuator adjustment range:

0 to 40 dB, continuous

Max. input level:

-2 dBV (1 kHz input, MIC position) +38 dBu (1 kHz input, LINE position)

Audio input level:

MIC level/LINE level switchable

Audio input connector:

Sony SMC9-4S type

Power requirements:

DC 3.0 V (with two LR6 alkaline batteries)

Battery life:

Approx. 6 hours with Sony LR6 alkaline batteries at 25 °C (77 °F) at 50 mW output Approx. 13 hours with Sony LR6 alkaline batteries at 25 °C (77 °F) at 10 mW output Dimensions:

63 (W) x 83 (H) x 17 (D) mm (2 1/2 x 3 3/8 x 11/16 inches)

Approx. 140 g (4.9 oz) including batteries



WRU-806B/62 UHF Synthesized Tuner Unit (62CE7)

Features

•Dedicated plug-in diversity receiver for MB-806A tuner base unit •Operates within the range of 798 MHz to 822 MHz (TV channels 62 and 64) • Auto channel assignment for extra receiver modules with self-detection and skipping of unusable channels • Pre-programmed groups for inter-modulation free operation of multi-channel system •AF, RF and transmitter's low-battery alarm indication by both LED and LCD to double check operating condition •Use of SAW filters for exceptional rejection of unwanted signals while maintaining the best signal integrity of the desired signals •Space diversity reception for dependable RF reception



Applicable Models

MB-806A UHF Tuner Base Unit

Specifications

Receiving channel: 1 channel Receiving frequency: 798 MHz to 822 MHz

1st: PLL synthesizer, 2nd: Crystal oscillator De-emphasis:

50 µs

Reference Deviation:

±5 kHz deviation at 1 kHz modulation (Max. deviation: ±40 kHz deviation at

1 kHz modulation)

Selectivity:

60 dB or more at ±250 kHz

Spurious rejection ratio:

70 dB or more

Frequency range: 70 Hz to 18 kHz (typical)

Signal-to-noise ratio:

60 dB or more at 60 dBµ RF input at reference deviation, A-weighted

RF muting level:

30 dBu

Operating voltage:

DC 9 V

Current consumption:

225 mA or less

Dimensions (W x H x D): 57 x 26 x 122 mm (2 1/4 x 1 1/16 x 4 7/8 inches) Mass:

160.0 g (5.7 oz)

WRU-806B/67 UHF Synthesized Tuner Unit (67CE7)

•Dedicated plug-in diversity receiver for MB-806A tuner base unit •Operates within the range of 822 MHz to 862 MHz (TV channels 67 and 69) • Auto channel assignment for extra receiver modules with self-detection and skipping of unusable channels • Pre-programmed groups for inter-modulation free operation of multi-channel system •AF, RF and transmitter's low-battery alarm indication by both LED and LCD to double check operating condition •Use of SAW filters for exceptional rejection of unwanted signals while maintaining the best signal integrity of the desired signals •Space diversity reception for dependable RF reception



Applicable Models

MB-806A UHF Tuner Base Unit

Specifications

Receiving channel:

1 channel

Receiving frequency:

838 MHz to 862 MHz

1st: PLL synthesizer, 2nd: Crystal oscillator De-emphasis:

50 µs

Reference Deviation:

±5 kHz deviation at 1 kHz modulation (Max. deviation: ±40 kHz deviation at 1 kHz modulation)

Selectivity:

60 dB or more at ±250 kHz

Spurious rejection ratio:

70 dB or more

Frequency range:

70 Hz to 18 kHz (typical)

Signal-to-noise ratio:

60 dB or more at 60 dBµ RF input at reference deviation, A-weighted

RF muting level:

30 dBµ

Operating voltage:

DC 9 V

Current consumption:

225 mA or less Dimensions (W x H x D):

57 x 26 x 122 mm

(2 1/4 x 1 1/16 x 4 7/8 inches)

Mass:

160.0 g (5.7 oz)

WRU-8N/62 UHF Synthesized Tuner Unit (62CE7)

Features

- •Plug-in diversity receiver for MB-8N Tuner Base Unit
- Jog dial control for channel number/group selection
- •Operates over a 24 MHz frequency band within the range of 798 MHz to 822 MHz (TV channels 62 to 64)
- ·LCD screen displays operating channel/frequency and RF level •LED indicators display space diversity reception status, AF input status and a low battery warning of Sony transmitters •Auto channel assignment of additional receiver modules for instant programming of interference-free multi-channel operation •Automatically skips unusable channels and assigns open channels Space diversity reception for stable RF reception



Applicable Models

MB-8N Tuner Base Unit (U2)

Specifications

Receiving channel: 1 channel Receiving frequencies: 798 MHz to 822 MHz Local oscillators:

PLL synthesizer Reference deviation:

+5 kHz deviation at 1 kHz modulation (Maximum deviation: ±40 kHz at 1 kHz modulation)

Signal-to-noise ratio:

60 dB or more (65 dB typical) at 60 dBµ RF input at reference deviation, A-weighted

Selectivity:

60 dB or more at ±250 kHz detuned

RF squelch level: . 10 dBµ, 20 dBµ, 30 dBµ or off

De-emphasis: 50 µs

Power consumption:

DC 5 V (supplied from MB-8N)

Dimensions (W x H x D): 56.0 x 30.7 x 149.0 mm

(2 1/4 x 1 1/4 x 5 7/8 inches)

Mass:

165 g (5.8 oz)

WRU-8N/67 UHF Synthesized Tuner Unit (67CE7)

- •Plug-in diversity receiver for MB-8N Tuner Base Unit
- Jog dial control for channel number/group selection
- •Operates over a 24 MHz frequency band within the range of 838 MHz to 862 MHz (TV channels 67 to 69)
- ·LCD screen displays operating channel/frequency and RF level •LED indicators display space diversity reception status, AF input status and a low battery warning of Sony transmitters •Auto channel assignment of additional receiver modules for instant programming of interference-free multi-channel operation •Automatically skips unusable channels and assigns open channels.
- ·Space diversity reception for stable RF reception



Applicable Models

MB-8N Tuner Base Unit (U2)

Specifications

Receiving channel:

1 channel

Receiving frequencies:

838 MHz to 862 MHz

Local oscillators:

PLL synthesizer

Reference deviation:

±5 kHz deviation at 1 kHz modulation (Maximum deviation: ±40 kHz at 1 kHz modulation)

Signal-to-noise ratio:

60 dB or more (65 dB typical) at 60 dBµ RF input

at reference deviation, A-weighted

Selectivity

60 dB or more at ±250 kHz detuned

RF sauelch level:

. 10 dBµ, 20 dBµ, 30 dBµ or off

De-emphasis:

50 us

Power consumption:

DC 5 V (supplied from MB-8N)

Dimensions (W x H x D):

56.0 x 30.7 x 149.0 mm

(2 1/4 x 1 1/4 x 5 7/8 inches)

Mass

165 g (5.8 oz)

SONY

Monitor Equipment

Monitor Equipment

MDR-7502								392
MDR-7505								393
MDR-7506								394
MDD 7500HI	`							201

MDR-7502 Stereo Headphones

Features

•Designed to fit securely over the ear, these headphones ensure a high-degree of air-tightness and soundproofing •The diaphragm, which is made of a high-molecule film, and the copper-clad aluminum voice coil reproduce high quality extended frequency sound •Neodymium magnet is used to deliver deep bass and clear treble sound •These headphones are equipped with a stereo unimatch plug which can be connected to a jack of either the mini or the phone type •The headphone cord is a litz wire which reduces conductive loss at high frequencies

Supplied Accessories

Soft case (1) Gold-plated unimatch plug adaptor (1)

Specifications

Type:

Supra-aural, closed

Driver units:

30 mm dia., dynamic type

Diaphragm:

PET

Magnet:

Neodymium

Impedance:

24 Ω at 1 kHz

Sensitivity:

100 dB/mW

Power handing capacity: 500 mW

Frequency response:

60 Hz to 18 kHz

2 m cord with a gold-plated stereo mini

plug cord

Mass (without cord):

150 g (5.2 oz)



MDR-7505 Stereo Headphones

Features

•Professional monitoring headphones for DJ, remix, and studio •Swivel mechanism allows easy single sided monitoring in various wearing positions •Round design of ear pads allows the DJs to listen in various positions, with consistent audio quality •Acoustical characteristics is designed to position sound image very close to the ears, thus, enabling easy sound monitoring in noisy environment •40 mm driver unit for high quality sound •Neodymium magnet for powerful bass and clear treble sound •Reversible earcup design for easy single sided monitoring •Coiled, LC-OFC cord for high quality transmission •Screw type gold plated stereo unimatch plug for secure connection •Convenient folding design

Supplied Accessories

Soft case (1)

Gold-plated unimatch plug adaptor (1)

Specifications

Type

Supra-aural, closed

Driver units:

40 mm dia., dynamic type

Diaphragm:

PET

Magnet:

Neodymium Impedance:

40 Ω

Sensitivity:

106 dB/mW

Power handling capacity:

1,000 mW

Frequency response:

10 Hz to 25 kHz

Cord:

Coiled, single sided, 1 to 3 m LC-OFC litz cord with a gold plated stereo mini plug

Headhand

Wide single headband (folding

mechanism)

Mass (without cord):

220 g (7.7 oz)



MDR-7506 Stereo Headphones

Features

•Professional monitoring headphones •Comfortable, auranomic design (circum aural headphones, earcup covering the entire ear) •40 mm driver unit for high quality sound •Neodymium magnet is used to deliver deep bass and clear treble sound •Utilising diaphragms constructed of 16 µm high-molecule film and copper-clad aluminum voice coil, these headphones deliver high quality sound along a wide frequency range •The headphone cord is an oxygen-free copper litz wire which provides maximum conductivity •The coiled headphone cord extends user's action radius to 3 metres •Useful clicking scales on the slide bar •Convenient folding design •Self-closing mechanism prevents sound leakage when headphones are taken off

Supplied Accessories

Soft case (1) Gold-plated unimatch plug adaptor (1)

Specifications

Type: Circum-aural, closed Driver units: 40 mm dia., dynamic type Impedance: 63 Ω at 1 kHz Sensitivity: 106 dB/mW Power handing capacity: 1000 mW Frequency response: 10 Hz to 20 kHz Coiled, single sided, 1 to 3 m OFC litz cord with a gold-plated stereo mini plug Mass (without cord): 230 g (8.1 oz)



MDR-7509HD Stereo Headphones

Features

•Professional monitoring headphones •Resists high power input up to 3000 mW •Comfortable, auranomic design (circum aural headphones, earcup covering the entire ear) •50 mm driver unit for high quality sound •Neodymium magnet for powerful bass and clear treble sound •Amorphos diamond evaporated diaphragm for natural sound reproduction •Reversible earcup design for easy single sided monitoring •Coiled, LC-OFC class 1 litz cord for minimum signal transmission loss •Screw-type gold plated stereo unimatch plug for secure connection •Convenient folding design •Self-closing mechanism prevents sound leakage when headphones are taken off

Supplied Accessories

Soft case (1)
Gold-plated unimatch plug adaptor (1)

Specifications

Type:

Circum-aural, closed

Driver units:

50 mm dia., dynamic type

Diaphragm:

Amorphos diamond evaporated

Magnet:

Neodymium

Impedance:

 $24~\Omega$

Sensitivity:

107 dB/mW

Power handling capacity:

3,000 mW

Frequency response:

5 Hz to 80 kHz

Cord

Coiled, single sided, 1 to 3 m LC-OFC

class1 litz cord with a gold-plated stereo

mini plug

Headband:

Wide single headband (folding

mechanism)

Mass (without cord):

300 g (10.5 oz)



SONY

Digital Signage Solutions

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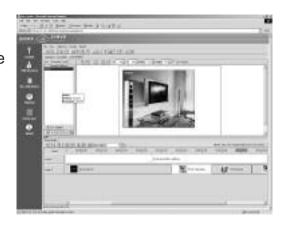
Ziris Create BZSQ-C001

Ziris Create Lite Single Software License

BZSQ-C101

Ziris Create Single Software License

(Version 4.00 and later)



Ziris Create provides a web based system capable of importing media from multiple sources (video, audio, picture and text files), to create and edit playlists, schedule and deliver content to playout devices such as Ziris View, View SD, View HD and the BKM-FW50 Digital Signage Board to show tailored content on individual screens.

Ziris-Create Lite

Entry-level Digital Signage playlist authoring software, for the BKM-FW50 and BZSQ-V001 Ziris View Lite networked playout devices only.

The BKM-FW50 is an IP addressable Streaming Receiver Adaptor for the Sony Public Display FWD series. Ziris View Lite is application software, operating on either

Ziris View Lite is application software, operating on either Windows XP or MAC platform, allowing the timely playout of single layer content, when authored within Ziris Create Lite.

BZSQ-C001 Ziris Create Lite

Description

Ziris Create Lite, Entry Level content authoring software.

Software Platform

Windows 2003 server

Web Browser Based

Multiple user and remote log in. Password protection for security.

User Friendly Interface

Ziris Create Lite is simple to operate, the GUI is informative, unclustered and navigation to create and control is easily performed.

Easy play-list creation with Slide Show function

The use of drag and drop of media to create a playlist supports the entire concept of fast, efficient and effective workflow processes.

A Slide Show dialogue allows users to select content from the collections and add them to the Slide Show. The order of the images and video can be changed using the "Move Up" and "Move down" buttons. A preview of the Show is shown along the bottom of the dialogue. The content currently selected in the collection may be previewed.

Week schedule

Slide Show play-lists can be created for every day of the week.

One Platform

Ziris Create Lite offers one platform for handling different types of content such as multiple format support, video, graphics and audio. With no secondary systems required, this makes it's so much simpler to use. What's more, unlike other systems Ziris Create makes a copy of the content to ensure it's always available to the operator.

Simple Media Storage

Media is stored locally and managed on a PC. Files are stored by file type and are user configured – so you know exactly where to find them. It's totally intuitive and simple to use.

Thumbnail File Identification

The use of thumbnails to identify content allows 'at a glance' recognition of the media within the collections and ready for use.

Simple Transfer

Content is transferred and stored locally. No pre-rendering is required, thus changes are simple and fast.

BZSQ-C101 Ziris Create

As above but advanced software for large-scale scaleable systems utilising various media formats, on a number of layers and positions, and flexible scheduling tools.

Digital Signage Solutions

Features

Ziris Create takes a simple concept of an Administrator and an Author, and brings them to an IP content authoring, publishing & distribution environment. Both Administrator and Author function work together to develop collections of content and deliver them to a distributed network of devices for play out.

The Administrator function allows the user to allocate access privileges and define further User/Author roles. The Administrator function also allows the user to create groups of terminals to which similar content can be developed and delivered. In this way a Group could be all terminals within a retail complex, or all terminals within specific retail areas. Groups are defined on a user basis and in line with the users needs.

The Author function allows users to pull together content from different sources into a single collection. The media within a collection can then be customised with text and graphics. Text can be formatted in terms of font, position, colour size etc and graphics added and positioned for maximum effect within the media.

The whole process is simple to understand and complete. Users simply drag and drop content to a timeline and much like basic editing software, define the times at which graphics and text should appear. Sophisticated media content can be created easily by combining graphics, media and text.

Once created the item is validated i.e. checked for continuity, and consistency and a play out timeline is created for the group of devices. The Author collates media content to the timeline to create a play out schedule. The play out schedule is then uploaded to the remote play out devices manually, automatically, or at a predefined time. The system provides an effective colourcoding scheme to show the stage of the upload process, and whether ultimately, it has been successful.

Core Application Features

- · Web based service
- Secure Account Login and User Account Management
- · Software Licensing by number of devices

Content Ingest

- Importing of content into flexible directory structure
- Manual or automatic 'hot folder' imports

Scheduling

- Drag-and-drop on to channel timeline for scheduling single playlists
- Campaign scheduling wizard for scheduling daily playout between a start and end date, across multiple channels.
 Can also select days of the week.

Content Management

- Management of video, images, text and playlists in folders
- Export of content and playlists
- Export of Ziris-View playlist into MOV video file

Playlist Authoring

- Playlist authoring for a large variety of screen formats, sizes and orientations (including portrait and widescreen)
- BKM-FW50 Digital Signage Board
 BZSQ-V001 Ziris View Lite
 BZSQ-V101 Ziris View SD
 BZSQ-V501 Ziris View HD
- Automatic playlist creation for simple presentations
- Ability to combine playlists
- · Portait mode playlist creation

Channel Management

- Grouping of devices into channels to facilitate scheduling and upload to multiple devices
- · Single click upgrade to Ziris Transfer

Content Upload

- Simple upload option for transferring content and schedules to devices (either directly or through Ziris-Transfer)
- Colour-coding scheme on timeline for displaying upload status
- Batch upload using scheduling wizard, with detailed status reporting

Dynamic Content Management

- Dynamic Pull HTML support for Ziris-View
- Dynamic Push Local 'Hot-Folder' dynamic text support for Ziris View
- Push based MPEG-4 Video Streaming

System Requirements

2.8 GHz (or faster) Intel Celeron, Intel Pentium 4 or equivalent, 1GB, 40GB, Windows Server 2003.

Monitor 1024 x 768 resolution, true colour

Ziris Transfer BZSQ-T050

(Version 4.00 and later)

Features

Ziris Transfer allows the distribution of the content creates using Ziris Create to a variety playout devices including Ziris View Lite, View SD, View HD and BKM-FW50. Delivery of Ziris digital content to each playout device can be performed over local area networks (LANs), wide area networks (WANs) or the internet. Using Ziris Transfer you can view the status of transfer jobs, each coloured according to their transfer status.

Core Application Features

- Web based service
- Secure Account Login and User Account Management
- · Software Licensing by number of devices

Transfer Status Monitoring

• Dynamically updates transfer status

Configuration

• Zero Device Configuration (handled in Ziris-Create)

FTP Transfer

- FTP Transfer to channels defined in Ziris Create
- No additional channel configuration required in Ziris Transfer
- · Automatic retry of failed transmissions
- Transfer immediately or during time window

Transfer Status Monitoring

- Dynamic status updates on all transfers
- Search transfers according to status, job name, destination, device name and date
- Fine tune settings: record archive period and content deletion

Status in Ziris Manage

- Updates Ziris Manage with status from Ziris Transfer
- · Number of failed transfers



System Requirements

2.8 GHz (or faster) Intel Celeron, Intel Pentium 4 or equivalent, 1GB, 40GB, Windows Server 2003

Monitor 1024 x 768 resolution, true colour

Ziris Manage BZSQ-M001

Ziris Manage Lite Single Software License

BZSQ-M101

Ziris Manage Single Software License

(Version 4.00 and later)

Invest in a digital signage solution and you'll want to know everything is running smoothly. Ziris Manage can offer you such reassurance. That's because as device management and monitoring software, it consistently keeps a close eye on the whole process. And should a problem arise, you can act quickly to put it right. Ziris Manage monitors play out devices such as the BKM-FW Series and Ziris View series to report and provide a live status of their condition. This includes 'as-run' logs from each unit, allowing you to review and confirm the device operation. Ziris Manage provides device reporting on:

- Unit Configuration
- Unit Status
- Content 'as-run' Logging (Ziris Manage Only, Not Ziris Manage Lite)

Ziris Manage also monitors devices such as Sony plasma screens, LCD monitors and projectors. Information such as whether the unit is switched on, which video input is chosen and projector lamp hours is invaluable if you're concerned about your mission critical information communication devices and giving them the preventative maintenance they deserve.

BZSQ-M001 Ziris-Manage Lite

Entry level application for simple status monitoring and control of BKM-FW50, BZSQ-V001 player devices, LCD and Plasma Devices via the BKM-FW31/2 and IP enabled projectors.

BZSQ-M101 Ziris-Manage

Advanced software for large-scale scaleable systems utilising various Networked Players, Displays, Projectors.

System Requirements

2.8 GHz (or faster) Intel Celeron, Intel Pentium 4 or equivalent, 1GB, 40GB, Windows Server 2003.

Monitor 1024 x 768 resolution, true colour



Features

Core Application

- Web based service
- Secure Account Login and User Account Management
- · Software Licensing by number of devices

Configuration

- Registration and management of devices for monitoring
- Screens and network players can be monitored in groups or individually.

Status

- Real-time status reporting for digital signage devices, Ziris-View, Sony Network Projector
- Indicates whether network players, plasmas, monitors and projectors are switched on
- Displays current media playout information, download status and remaining disc space for network players
- · Alerts of any errors

Logging

 Maintains details of registered playout devices and their associated displays

Remote Device Control

- Can switch input channels, switch on/off through RS232 of playout device
- Schedule reboot and sleep times for Ziris View

Ziris Transfer Integration

- · Ziris Transfer status indication within device tree
- Viewing Content Store on Devices
- View of Media/content on play out device (no modification of data will be possible)
- Error Notification
- SMS or E-mail notification of error status

Ziris View BZSQ-V001

Ziris View Lite, Single layer player when content playlist authored by BZSQ-C001, or up to 4 layers when playlist authored by BZSQ-C101, Standard Definition Play-out Application Software.

BZSQ-V101

Ziris View SD, 10 layer, for use with BZSQ-C101 only. Standard Definition Playout Application Software.

BZSQ-V501

Ziris View HD, 10 layer, for use with BZSQ-C101 only. Standard and High Definition Playout Application Software.

(Version 4.00 and later)

Features

With Ziris View software, any standard PC becomes a networked digital signage player, capable of replaying complex on-screen images containing multiple layers of video, animation and text. Ziris View will manage the playout of a playlist authored with Ziris Create. The Ziris View player software supports the same basic functions and features when compared to dedicated players however it can provide a number of operational features that will give users business advantages. These include high quality graphical output display, providing in addition to video, real time information, it is particularly versatile of formats and remains very flexible dependant on customer requirements.

Ziris now offers users Digital Signage messaging with real High Definition pictures, using a wide range of HD play out solutions and displays.

Unlike that of many competitors, High Definition is nothing new to Sony - we have been working in this field for over 20 years. It is only recently that High Definition has become a worldwide phenomenon, where the technology has changed and evolved in production, distribution and for the consumer. High Definition will revitalise the entire television industry with innovation, new revenues and excitement, and that includes Digital Signage solutions for Point of Sale, Information and Entertainment.

Keen to add value in a fast-moving, fragmented marketplace, many advertisers around the world have put High Definition at the top of their agendas, HD pictures provide an exceptional viewing experience on the new generation of HD-compatible Sony displays that are universally available.

Multi layer PC based playout device

Three versions

BZSQ-V001

Standard Definition Play-out application software
Single layer player when playlist authored by BZSQ-C001
4 layer player when playlist authored by BZSQ-C101
BZSQ-V101

10 layer, Standard Definition Play-out application software BZSQ-V501

Ziris View HD, 10 layer, Playout Application Software

- Scheduled or default content
- Flexible format support
 - Including: mov, mpg, avi, flash, bmp, jpg, gif, html, SDP live streaming
 - Support of Landscape and Portrait mode

Dynamic Content Pull (HTML) - BZSQ-V101 and BZSQ-V501 only

- · Ziris View pulls HTML content from remote URL
- Configurable refresh rate

Integration with Ziris Manage

- Current status
- · As run logs collection
- Display Control
 - Controls plasma via RS232: power, volume & input
 - Supports various Sony displays and projectors

Remote reboot

• View PC can be rebooted remotely via Ziris Manage

Digital Signage Solutions

System Requirements

Operating System

Microsoft® Windows® XP SP2 or MAC OS 10.4.3 G4

BZSQ-V001 Ziris View Lite / BZSQ-V101 Ziris View SD

Specification 1

Operating system:

Windows XP SP2

HDD:

80GB minimum 7200 RPM

Processor:

2.8 GHz (or faster) Intel Celeron, Intel Pentium 4 or equivalent

RAM:

512MB minimum

Graphics card:

Minimum XGA (1024 x 768), WXGA if 16:9 Displays are used Capable of true colour (32 bit), 64 MB Minimum Graphics Memory

Specification 2

Operating system:

MAC OS X 10.4.3 G4

HDD:

80 GB

Processor:

1.42GHz Power PC min

RAM:

512MB

BZSQ-V501 Ziris View HD

Specification 1

Operating system:

Windows XP SP2

HDD:

80GB minimum 7200 RPM

Processor:

2.8 GHz (or faster) Intel Celeron, Intel Pentium

4 or equivalent

RAM:

1GB minimum

Graphics card:

Resolution 1280x720 or 1920x1080, DVI / HDMI video out

Specification 2

Operating system:

MAC OS X 10.4

HDD:

80 GB

Processor:

1,83-GHz Intel Core Duo

RAM:

1GB

NSP-1 Network Player

Features

The NSP-1 provides local storage and playout within Digital Signage applications and manages the presentation of up to five simultaneous image layers, including graphics, video, text and Flash content. For added flexibility, video can be played out from the hard drive of the NSP-1 or merged with other content layers from an external video feed. An audio channel can be used for background music or narration in addition to the video soundtrack. Its flexibility, video output quality, compact size and reliability ensures peace of mind when deployed in mission critical environments.

High Quality Graphics and Text

The NSP-1 supports a variety of graphics formats including full colour bitmaps (.bmp) as well as JPEG, Macromedia Flash™ and HTML. Small bitmap images such as logos can be positioned anywhere within the display area. Text can be specified in any colour and position on screen, with optional scrolling or flashing effects added as required.

Excellent Video Quality

High bit rate MPEG-2 compression ensures clear, true-to-life DVD quality video images.

Portrait Mode

Content can be presented in a choice of portrait or landscape modes to suit display orientation.

Selectable Output Resolution and Aspect Ratio

Supplied Accessories
AC adapter and AC cable
Stand for desktop mounting in vertical position
Operation manual (downloadable from the NSP-1 HDD)

Specifications

General

Dimensions (W x H x D):

210 x 44 x 167 mm (8 3/8 x 1 3/4 x 6 5/8 inches)

Mass:

Approx. 1.5 kg (3 lb 1 oz)

Power:

Power Power consumption; Approx. 45 W

Power supply; DC 13.5 V provided from an AC adapter Operating temperature +5 to +40°C (+42 to +104°F)

Storage temperature -20 to +55°C (-4 to +131°F)

Hard Disc Drive:

40 GB

Output (Media Formats)

MPEG-2 Video:

MPEG-2 MP@ML, 4.0 Mb/s - 9.0 Mb/s

Audio:

MPEG-1 Audio Layer II 2 channels (fixed), 256 kb/s, 48 kHz Graphics:

Bitmap (.bmp), JPEG (.jpg), FLASH (.swf), HTML (.htm or .html)

Bitmap (.bmp), Text (.txt)

Audio:

Linear Audio (.wav), MP3 (.mp3) A/V In NTSC, PAL, Stereo Audio





Output image resolution and aspect ratios can be specified as:

4:3 RGB: VGA, SVGA, XGA

• 16:9 RGB: WVGA

Composite Video: NTSC, PAL

Dedicated Audio Track

The dedicated audio track is ideal for adding background music or narration to accompany video and other graphic presentation elements.

Browser-Based Remote Setting & Scheduling

NSP-1 functions can be controlled via a connected PC and web browser.

Output (Screen Image)

Analogue:

RGB VGA (640 x 480 pixels), WVGA (848 x 480 pixels),

SVGA (800 x 600 pixels), XGA (1024 x 768 pixels)

Composite Video*:

NTSC (720 x 480 pixels), PAL (720 x 576 pixels)

Screen:

Rotation Landscape, Portrait (+90°, -90°)

Interface

Video OUT

Analogue RGB, HD D-sub 15-pin (female) x1, Composite

(RCA phono type x1)

Audio OUT:

Stereo RCA phono type x2, analogue unbalanced

Video IN:

Composite (RCA phono type x1)

Audio IN:

Stereo RCA phono type x2, analogue unbalanced

Network:

10/100Base-T Ethernet, RJ-45 modular jack x1

PCMCIA Type II x1

USB USB 1.1 x2

Serial RS-232C, D-sub 9-pin (male) x1,

GPI D-Sub 25-pin (female) x1

Operating System and Nework:

Operating system Linux

Supporting protocols: TCP/IP, HTTP

Public Displays & Accessories

FWD-32LX2F	S/B		406
FWD-40LX2F	S/B		407
FWD-42PV1	S/B		408
FWD-42PX2	S/B		409
FWD-50PX3	S/B		410
BKM-FW50			411
BKM-FW10			412
BKM-FW11			412
BKM-FW12			412
BKM-FW32			412
SU-32/42FW			413
SU-50FW .			413
SS-SP32FW/	/40FW	/42FW	/ 413
SS-SP50FW			413
FS-LP1NL .			414
WB-LP1NL			414
CR-LP1NI			414

FWD-32LX2F S/B 32" LCD Public Display

•High resolution widescreen displays (1366x768) with 16.77 million displayable colours • Durable and elegant acrylic bezel design (available for the Silver model) •HD-Ready •Great picture quality - very high brightness (500 cd/m²) combines with 1300:1 contrast ratio to deliver incredibly bright, clear images •Integrated high performance scan converter - for extra smooth playback of video or PC signals •Dual option slots for installation of add-on boards (first slot is pre-installed with BKM-FW10, second slot is pre-installed with BKM-FW20(1)) • Dual HDMI inputs •Includes built-in audio amplifier to drive optional loudspeakers •Special menu for hotel installation with advanced settings(12) • True Colour Control enables very precise colour adjustments; ideal for displaying company logo or trademarks just as they should be. Using the colour palette on the screen, the saturation and the hue of either red, yellow, green, blue can be adjusted individually without affecting other colours



^{*2} Please contact your local Sony dealer for details





Supplied Accessories

Power cable Instruction manual Component video HD15/RCA cable BNC/RCA conversion adaptor Cable holder Remote controller (RM-FW001) Batteries Warranty card

Optional accessories

Speakers Table Top Stand Video/S Video I/O adaptor 5BNC (Component/RGB) Input Adaptor RGB/Component Active Through Adaptor Network Management Adaptor Contents Player/Streaming Receiver Adaptor

Specifications

Panel LCD/PDP Size 32V Active Area (w x h) 698 x 392 mm Resolution WXGA 1366 x 768 Colours 16.7million Viewing Angle (h/v) 176° / 176° Response Time 8 msec (G to G) Brightness

> 500 cd/m Contrast 1300:1

Input connectors PC Analogue (HD15) Digital (HDMI x2) Video (Composite) (BNC) S Video (Mini DIN4) Component (HD15) DigitalVideo (HDMI x2) Audio RCA (L/R) Stereo mini Control RS232C / Control S Output connectors n/a Video

Video(Composite) (BNC) S Video (Mini DIN4) Audio n/a Speaker OUT L/R Control Control S Maximum Resolution

WXGA 1360 x 768

General

Video Signal NTSC / PAL / SECAM / NTSC4.43 / PAL-M / PAL60 / PAL-N, Video (Composite) / S Video / Component Speaker output 7W + 7W

Power Requirements AC100~240V, 50/60Hz Consumption 120 W (typical) Dimension (w x h x d) F model 796 x 486 x 107 mm X model 802 x 492 x 107 mm Mass F model approx. 16.0 kg X model approx. 17.0 kg Function Slot PinP/P&P

Multi Zooming (Multi Display)

FWD-40LX2F S/B 40" LCD Public Display

•High resolution widescreen displays (1366x768) with 16.77 million displayable colours • Durable and elegant acrylic bezel design (available for the Silver model) •HD-Ready •Great picture quality - very high brightness (500 cd/m²) combines with 1300:1 contrast ratio to deliver incredibly bright, clear images •Integrated high performance scan converter - for extra smooth playback of video or PC signals •Dual option slots for installation of add-on boards (first slot is pre-installed with BKM-FW10, second slot is pre-installed with BKM-FW20(11) • Dual HDMI inputs •Includes built-in audio amplifier to drive optional loudspeakers •Special menu for hotel installation with advanced settings(12) • True Colour Control enables very precise colour adjustments; ideal for displaying company logo or trademarks just as they should be. Using the colour palette on the screen, the saturation and the hue of either red, yellow, green, blue can be adjusted individually without affecting other colours



^{*2} Please contact your local Sony dealer for details





Supplied Accessories

Power cable Instruction manual Component video HD15/RCA cable BNC/RCA conversion adaptor Cable holder Remote controller (RM-FW001) Batteries Warranty card

Optional accessories

Speakers Table Top Stand Video/S Video I/O adaptor 5BNC (Component/RGB) Input Adaptor RGB/Component Active Through Adaptor Network Management Adaptor Contents Player/Streaming Receiver Adaptor

Specifications

Panel

LCD/PDP LCD Size Active Area (w x h) 885 x 498 mm Resolution WXGA 1366 x 768 Colours 16.7million Viewing Angle (h/v) 178° / 178° Response Time 8 msec (G to G) Brightness 500 cd/m Contrast 1300 · 1

Input connectors PC

Analogue (HD15) Digital (HDMI x2) Video (Composite) (BNC) S Video (Mini DIN4) Component (HD15) Digital Video (HDMI x2) Audio RCA (L/R) Stereo mini Control RS232C / Control S **Output connectors** n/a Video Video(Composite) (BNC) S Video (Mini DIN4) Audio n/a Speaker L/R Control Control S Maximum Resolution WXGA 1360 x 768 General Video Signal NTSC / PAL / SECAM / NTSC4.43 / PAL-M / PAL60 / PAL-N,

Speaker output

7W + 7W

Requirements AC100~240V, 50/60Hz Consumption 200 W (typical) Dimension (w x h x d) F model 988 x 591 x 125 mm X model 994 x 597 x 125 mm Mass F model approx. 25.0 kg X model approx. 26.0 kg Function Slot PinP/P&P Multi Zooming (Multi Display) 2x2, 3x3, 4x4 with the selection of tiled image or Window image

Power

Video (Composite) / S Video / Component

42" WVGA Plasma Public Display FWD-42PV1 S/B

42 inch WVGA Plasma Public Display. The best partner to get your message across to your target audience.

Features

•High picture quality - very high brightness (1500 cd/m²) combines with 10000:1 contrast ratio to deliver incredibly bright, clear images •Integrated high performance scan converter - for smooth playback of video signals (up to HD format) and PC (up to UXGA resolution) •Includes built-in audio amplifier to drive optional loudpseakers •Remote management - via RS232C and Control-S control ports •Long life - durable design for extended product lifetime •Screen burn protection screen saver, picture orbiting, auto-dimmer and picture inversion help prevent burn-in



Specifications

Panel

Resolution 852 x 480 pixels Panel Brightness 1500cd/m² **FOS Brightness** 500cd/m² Contrast

10.000:1 (dark room) Pixel Pitch

1.08 x 1.08 mm Visual Area (W/H) 920 x 518 mm

Colours

1.07 billion (simultaneously)

Colour System

NTSC / PAL / SECAM / PAL-M / PAL-N / NTSC4.43 / PAL60

Sampling Rate

13.5 to 140 MHz

Inputs and Outputs

Input 1 Digital Video DVI-HDCP Audio Stereo mini jack, 500 mV RMS, high impedance Input 2 RGB

15-pin, 0.714 V p-p non-composite,

1.0 Vp-p composite Component Y 1.0 V p-p composite

0.7 V p-p non-composite

Audio

Stereo mini jack, 500 mV RMS,

high impedance Option 1 (BKM-FW10)

Video IN/OUT

1.0V p-p +/-2 dB sync negative

75 Ω automatic termination, loop-through out

S Video IN/OUT Mini DIN 4-pin

1.0 V p-p +/-2 dB sync negative

0.286 V p-p +/-2 dB sync negative (NTSC)

0.3 V p-p +/-2 dB sync negative (PAL) Audio L/R

Pin jack x2

Speaker OUT 6 Ω, 7W+7W

С

Audio OUT

Pin Jack x2

Remote (RS-232C) D-sub 9-pin

Control S (I/O) Mini iack

AC OUT

up to 0.25 A or up to 30 W

General

Power requirements

AC 100 to 240 V, 50 / 60 Hz, 3.5 A (max.)

Power consumption 260W (typ.)

Operating temperature 0 to 35°C (32 to 95°F)

Storage temperature

-10 to 40°C (14 to 104°F) Atmospheric pressure (operating)

800~1100 hPa

Humidity

20 to 90 %, no condensation Dimensions

1033 x 631 x 121 mm

Mass

approx. 29 kg

FWD-42PX2 S/B 42" WXGA Plasma Public Display

42" WXGA Plasma Public Display (HD Ready). The ideal partner for all types of professional applications.

Features

•Ideal for digital signage, the FWD-42PX2 is an eye catching 42" plasma display that uses new PDP panel technology for top level brightness and contrast. Pre-fitted BKM-FW10 video input card and DVI •Great picture quality - low-reflection screen coating combines with high brightness (1200cd/m²) and high contrast (10000:1) to deliver bright, clear images •Integrated High-Performance scan converter - for smooth playback of video signals (up to HD format) and PC (up to UXGA resolution) •Screen burn protection - screen saver, picture orbiting, selectable dimmer and picture inversion help prevent burn-in •Remote management - via RS232C and Control-S control ports •Flexible installation options - bottom connector panel, optional table stand and wall mount brackets.





Specifications

Panel

Resolution

1024 x 768 pixels

Panel Brightness

1200cd/m²

FOS Brightness

450cd/m²

Contrast

10.000:1

Pixel Pitch

0.90 x 0.676 mm (non-square pixels)

Active Area (W/H)

920 x 518 mm

Visual Area (W/H)

42-inch / 1056 mm measured diagonally

Colours

1.07 billion (simultaneously)

Colour System

NTSC/PAL/SECAM/ PAL60/PAL-M/

PAL-N/NTSC4.43

Sampling Rate

13.5 to 140 MHz

Inputs and Outputs

Input 1

Digital Video

DVI-HDCP

Audin

Stereo mini jack, 500 mV RMS,

high impedance

Input 2

ם ביווים

0.7 V p-p non composite,

1.0 V p-p non composite, 75 Ω

U/V

0.7 V p-p non composite (U/V),

1.0 V p-p composite (Y), 75 Ω

Audio

Stereo mini jack, 500 mV rms.,

high impedance

Option 1 (BKM-FW10)

Composite In

BNC, 1.0 V p-p +/-2 dB, sync negative,

75 Ω automatic termination

Y/C In

Mini DIN, 4-pin,

Y: 1.0 V p-p +/-2 dB, sync negative,

75 Ω automatic termination

C: 0.3 V p-p (PAL), 0.286 V p-p (NTSC),

+/-2 dB, sync negative, 75 Ω

Audio In

-5 dBu, 500 mV rms., high impedance

Composite Out

BNC, loop-through

Option 2 (free)

Available for BKM-FW10/11/12

Audio OUT

Stereo mini jack, 500 mV rms., high impedance

Speaker OUT

 6Ω , 7W+7W (L/R)

Control S

In/Out

Remote (RS-232C)

D-sub 9-pin

General

Power requirements

AC 100 to 240 V, 50/60 Hz 1.5A to 3.7A (Max.)

Power consumption

330 W (Max.)

Operating temperature

0 to 35 °C (32 to 95 °F)

Storage temperature

-10 to 40 °C (14 to 104 °F) Atmospheric pressure (operating)

800~1100 hPa

Humidity

20 to 90 %, no condensation

Dimensions

1033 x 631 x 121 mm

Mass

approx. 30 kg

50" WXGA Plasma Public Display FWD-50PX3 S/B

50" WXGA Plasma Public Display (HD Ready). The ideal partner for all types of professional applications.

Features

•High resolution widescreen display (1365x768) with 1.07 billion displayable colours •60,000 hour panel life same as previous FWD-50PX2 •Great picture quality -Eliminated False Contour from previous FWD-50PX2, resulting in natural gradation reproduction •Very high front of screen (FOS) brightness (500 cd/m2) combines with superb 15000:1 contrast ratio to deliver incredibly bright, clear images •HD resolution capable - feed the FWD-50PX3 with HD video for extra clarity and bigger impact •Integrated high performance scan converter for smooth playback of video signals (up to HD format) and PC (up to UXGA resolution) •Can be used in both landscape and portrait orientation •Built-in LAN Remote Control & Monitoring function - BKM-FW32 function now built in •More flexible Video Wall applications - supports 2x2, 3x3, 4x4 formats and newly added 1x2, 1x3, 1x4, 2x1, 3x1, 4x1 formats. Tile and Window signal split supported. •P and P, P in P supports DVI + HD15 RGB combination . Dual option slots - for installation of add-on boards. •First slot is pre-installed with BKM-FW21 card (RS232C/Control-S) • Simple Hotel Mode capability Auto detection of RGB/Component input signal



Specifications Panel

Resolution

1365 x 768 pixels

Panel Brightness

1000cd/m2

FOS Brightness

500cd/m2

Contrast

15000:1

Pixel Pitch

0.81 x 0.81 mm

Active Area (W/H)

1106 x 622 mm

Visual Area (W/H)

50-inch / 1270 mm measured diagonally

Colours

1.07 billion (simultaneously)

Colour System

NTSC/PAL/SECAM/ PAL60/PAL-M/

PAL-N/NTSC4.43

Sampling Rate

13.5 to 140 MHz

Inputs and Outputs

Network port (10BASE-T/100BASE-TX)

HD15 RGB/Component IN

D-sub 15-pin (female) (x 1)

Audio IN

Stereo mini jack (x 1)

500 mVrms, high impedance

DVI IN

(DVI Specification Rev. 1.0 compliant)

Audio IN

Stereo minijack (x 1)

500 mVrms, high impedance

Audio OUT

L/R RCA pin jack (x 2)

500 mVrms, high impedance

Option Slot 1 - Video/Communication (BKM-FW21 pre-installed)

Remote (RS-232C)

D-sub 9-pin (x 1)

Control S IN/OUT

Mini jack (x 2)

Option Slot 2 - Video

(BKM-FW10 pre-installed)

Video IN BNC (x 1)

Composite video, 1 Vp-p ± 2 dB sync

negative, 75 Ω (automatic termination)

Video OUT

BNC (x 1) Loop-through S Video IN

Mini DIN 4-pin (x 1)

Y (luminance): 1 Vp-p ± 2 dB sync negative,

75 O terminated

C (chrominance): Burst 0.286 Vp-p ± 2 dB

(NTSC), 75 Ω terminated

Burst 0.3 Vp-p \pm 2 dB (PAL), 75 Ω terminated

S Video OUT

Mini DIN 4-pin (x 1) Loop-through

Audio IN

Pin jack (x 2)

500 mVrms, high impedance

General

Power requirements

AC 100 to 240 V, 50/60 Hz 4.6A (max)

Power consumption

Operating temperature

0 to 35 °C (32 to 95 °F)

Storage temperature

-10 to 40 °C (14 to 104 °F)

Atmospheric pressure (operating)

800~1100 hPa

Humidity

20 to 90 %, no condensation

Dimensions

1256 x 753 x 112 mm

Mass

approx. 44 kg

BKM-FW50 Digital Signage Board

Streaming Receiver Adaptor - Discover the World of Digital Signage.

Features

If you want to get your message across, this powerful digital signage board is perfect for showing impactful still images or video clips. Not only is it easy to install and use, it's cost effective - saving you money and time. Bring your own message to the public!

This innovative technology is remarkably flexible. You can edit and save your content on an optional CompactFlash card and it will play on your digital signage instantly. In addition, you can stream still images and video clips from a web server or download them onto your storage media for play, without worrying about network traffic. Only a web browser is needed to operate this system, thanks to its HTML embedded design, helping you even further to communicate your messages at low cost. Extremely reliable compared to HDD and/or PC based solutions.

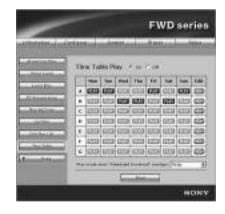


- 1- List Play
- 2- Time Table
- 3- No black screen insertion when JPEG image changing on Slide Show
- 4- Support LX2 series
- 5- Others
 - Support MPEG 480i + Auto detection of video MPEG video format Auto/480i/480p/576p
 - Check CF Remaining Amount
 - Play Contents under Sub-folders on Compact Flash Memory
 - Rename files on Compact Flash Memory
 - Background Music: Can be set as Folder basis
 - Display Message at booting-up and player idle, On/Off
 - Slide Show > Interval time setting : add 20/30/40sec
 - Background Colour

Applicable Models

FWD-32LX2 LCD Display FWD-40LX2 LCD Display FWD-42PV1 Plasma Display FWD-42PX2 Plasma Display FWD-50PX2 Plasma Display





BKM-FW10 Video Input/Output Adaptor

Features

•Composite Video In/Out (BNC x2) •S Video In/Out (Mini DIN 4-pin x2) •Audio In L/R (Pin jack x2)



FWD-32LX2 LCD Display FWD-40LX2 LCD Display FWD-42PV1 Plasma Display

FWD-42PX2 Plasma Display

FWD-50PX2 Plasma Display



BKM-FW11 Component/RGB Input Adaptor

•Component/RGB In (BNC x5) •Audio In (Stereo mini jack x1)

Applicable Models

FWD-32LX2 LCD Display FWD-40LX2 LCD Display FWD-42PV1 Plasma Display FWD-42PX2 Plasma Display

FWD-50PX2 Plasma Display



BKM-FW12 RGB/Component Active Through Adaptor

Features

•RGB/Component In (D-sub15pin x1) •RGB/Component Out (D-sub 15pin x1) •Audio In (Stereo mini jack x1)

Applicable Models

FWD-32LX2 LCD Display FWD-40LX2 LCD Display FWD-42PV1 Plasma Display FWD-42PX2 Plasma Display FWD-50PX2 Plasma Display



BKM-FW32 **Network Management Adaptor**

Features

•Enables remote control of the FWD-series Displays via IP. On/Off, Input Selection, Status monitoring, Diagnostics, error report over E-mail, On/Off timer settings and other functions are available.

Applicable Models

FWD-32LX2 LCD Display FWD-40LX2 LCD Display FWD-42PV1 Plasma Display FWD-42PX2 Plasma Display FWD-50PX2 Plasma Display



SU-32/42FW Tabletop Stand (Silver)

Applicable Models

FWD-32LX2 LCD Display (SU-32FW only) FWD-40LX2 LCD Display (SU-42FW only) FWD-42PV1 Plasma Display (SU-42FW only) FWD-42PX2 Plasma Display (SU-42FW only)



SU-50FW **Tabletop Stand**

Applicable Models

FWD-50PX2 Plasma Display



SS-SP32FW/40FW/42FW Speaker System (Silver or Black)

Applicable Models

FWD-32LX2 LCD Display (SS-SP32FW only) FWD-40LX2 LCD Display (SS-SP40FW only) FWD-42PV1 Plasma Display (SS-SP42FW only) FWD-42PX2 Plasma Display (SS-SP42FW only)

Specifications

2 way passive radiator type Woofer x1 Tweeter x1 Passive radiator x1

Magnetically shielded Rated impedance

6Ω Capacity

7W max

Dimensions (WxDxH) 203 x 608 x 94 mm

(SS-SP42FW)

158 x 480 x 78 mm

(SS-SP32FW) (W/H/D)

Approx. 1.4 kg (per speaker)

(SS-SP42FW)

Approx. 1.0 kg (per speaker)

(SS-SP32FW)





SS-SP50FW Speaker System (Silver or Black)

Applicable Models

FWD-50PX2 Plasma Display

Specifications

Left/Right channel speakers Dimensions (WxDxH)

12.5 cm x 8 cm x 74.1 cm

Weight

1.5 kg

Media Type

2 speakers Speaker Type

Passive

Nominal (RMS) Output Power

7 Watt

Input Impedance

6Ω

Connectivity Technology

Wired

Speaker System Details

2 x right/left

Channel Speaker 7 Watt

6Ω Colour Silver



FS-LP1NL Floor Stand

Features

This elegant floor stand gives you great flexibility in your office environment. This moveable stand is the ideal companion for your board room. It can be moved around easily as it is equipped with wheels. Additionally, this floor stand has a plate for the installation of a video-conferencing system.

Applicable Models

FWD-32LX2 LCD Display FWD-40LX2 LCD Display FWD-42PV1 Plasma Display FWD-42PX2 Plasma Display FWD-50PX2 Plasma Display



WB-LP1NL Wall Bracket system

Features

Attach your public display onto a wall. With this wall mounting system you can do a wall installation. Once installed, you can lock a mounting hole as anti-theft protection.

Applicable Models

FWD-32LX2 LCD Display FWD-40LX2 LCD Display FWD-42PV1 Plasma Display FWD-42PX2 Plasma Display FWD-50PX2 Plasma Display



CB-LP1NL Ceiling Bracket system

Features

Mount your public display easily onto the ceiling with this accessory. With this ceiling mounting system you can easily do an overhead installation of a public display. Once installed the display can be protected via an ant-theft mechanism. (The display is tiltable)



FWD-32LX2 LCD Display FWD-40LX2 LCD Display FWD-42PV1 Plasma Display FWD-42PX2 Plasma Display FWD-50PX2 Plasma Display



Monitor

Monitors

BVM-A20F1M Colour Video Monitor

Features

•20-inch* Broadcast colour video monitor •Flat surface HR Trinitron CRT provides high resolution of 900 TV lines
•EBU standard phosphors •Beam current feedback circuit for stable colour reproduction •Separate monitor control unit •Multi-format signal support •Dual link HD-SDI •Modular slot design for optional input board (BKM-61D/62HS/68X) •Auto white balance •Auto matrix selection •Auto Chroma phase •Digital Uniformity •Aspect ratio 4:3 and 16:9 switchable •Memory stick for storage and recall of monitor set-up data •Built-in test signal generator •H/V delay function •External sync •Auto and manual degaussing •Various area markers •Parallel and Ethernet based remote control •SNMP remote maintenance •19-inch EIA optional rack mount





Supplied Accessories

4:3 Mask
AC cable
AC plug holder
Tally label
Operation manual

Optional Accessories

BKM-15R Central control unit Memory stick BKM-14L Auto Set-up Probe BKM-35H Control unit attachment kit for BKM-15R with 20-inch monitor BKM-61D SD-SDI, Multi analogue board BKM-62HS HD/SD-SDI board BKM-68X RGB/component board SMF-700 Monitor interface cable

Specifications General

Signal format

15.625 kHz to 45 kHz

Type
Display unit

Power requirements
100 V to 240 V AC ± 10%, 50/60Hz

Power consumption
200 W (with Option board; Max.)

Dimensions (W x H x D)
444 X 414 X 570 (mm)
17 3/8 x 16 3/8 x 22 1/2 (inch)

Mass approx.
40 kg / (88 lb 3 oz)

CRT
CRT type

20-inch HR Trinitron

0.30 mm, 90 ° deflection,

measured diagonally) W x H (Diagonal)

4:3 15 1/4 x 11 1/2 inch , (19 inch)

16:9 15 1/4 x 8 5/8 inch , (17 1/2 inch)

4:3 386 x 291 mm, (482 mm)

16:9 386 x 218 mm, (443 mm)

Ø30.6 mm in-line gun Visual screen (Viewable area,

AG pitch

Phosphor

SMPTE-C/EBU

Inputs/outputs Control

LAN
Ethernet (10 BASE-T/100 BASE-TX),
R.J-45 x1

Parallel remote
D-sub 9-pin x 1 (Short to ground)

Ontion

RS-232C serial interface,

Mini DIN 8-pin x 1

Video Signal Performance

Differential gain (DG)
Within 5% for luminance from
0 to 100 cd/m2
Differential phase (DP)
Within 5° for luminance from

0 to 100 cd/m2

Frequency response

48 Hz to 30 MHz +1dB/-3 dB

DC restoration

Back porch type, back porch level: within 1% of peak luminance, 10 to 90% API

Synchronisation

Retrace time
Horizontal
under 3.77 µ sec
Vertical
under 650 µ sec

Raster and Picture Performance

Normal scan

5% over scan of the effective picture area Under scan

3% under scan of the effective picture area inearity

Less than 0.5% within circle centered on the screen with a diameter equal to the vertical height, 1% at any other point*

Colour temperature

D65 / D93 / D56 / USER1-5 (User adjustable)

Convergence

Less than 0.4mm within circle centered on the screen with a diameter equal to the vertical height, 0.7 mm at any other point Preset brightness

100 cd/m2 (when a 1.0 Vp-p 100% white signal is input)

Stability of raster size

1% of picture height

(at 100 cd/áu peak luminescence,

10 to 90 % APL)

Scan delay

Horizontal

Approx. 2/9 line

Vertical

Approx. 1/2 field

Resolution (Centre)

16:9: 700 TV lines, 4:3 900 TV lines

Operating Conditions

Operating temperature

0 to 35 °C,

Optimum operating range 20 to 30 °CC

Storage temperature

-10 to 40 °C

Humidity

30 to 90 % (no condensation)

BVM-A14F5M Colour Video Monitor

Features

•14-inch* Broadcast colour video monitor •Flat surface HR Trinitron CRT provides high resolution of 800 TV lines •EBU standard phosphors •Beam current feedback circuit for stable colour reproduction •Multi-format signal support •Dual link HD-SDI •Modular slot design for optional input board (BKM-61D/62HS/68X) •Auto white balance •Auto matrix selection •Auto Chroma phase •Digital Uniformity •Aspect ratio 4:3 and 16:9 switchable •Memory stick for storage and recall of monitor set-up data •Built-in test signal generator •H/V delay function •External sync •Auto and manual degaussing •Various area markers •Parallel and Ethernet based remote control •SNMP remote maintenance •19-inch EIA optional rack mount



* 13 1/8 inches viewable area, measured diagonally.

Supplied Accessories

4:3 Mask AC cable AC plug holder Tally label Operation manual

Optional Accessories

Memory stick
BKM-14L Auto Set-up Probe
BKM-30E14 19-inch EIA standard rack
mounting kit
BKM-61D SD-SDI, Multi analogue board
BKM-62HS HD/SD-SDI board
BKM-68X RGB/component board
SMF-700 Monitor interface cable

Specifications

General

Signal format
15.625 kHz to 45 kHz
Type
Stand-alone monitor
Power requirements
100 V to 240 V AC ± 10%, 50/60Hz
Power consumption
170 W (Max.) (with Option board; Max.)
Dimensions (W x H x D)
482 X 280 X 571 (mm)

Mass

approx. 26 kg / (57 lb 5 oz) CRT

19 x 11 1/8 x 22 1/2 (inch)

CRT type

14-inch HR Trinitron

AG pitch

0.25 mm, 90 ° deflection, Ø29.4 mm in-line gun

Visual screen (Viewable area, measured diagonally) W x H (Diagonal)

4:3 267.5 x 200.6 mm, (331.6 mm) 4:3 10 5/8 x 8 inch , (13 1/8 inch) 16:9 267.5 x 150.5 mm, (306.9 mm)

16:9 10 5/8 x 6 inch , (12 1/8 inch)

Phosphor SMPTE-C/EBU

Inputs/outputs Control

IAN

Ethernet (10 BASE-T/100 BASE-TX), RJ-45 x1

Parallel remote

D-sub 9-pin x 1 (Short to ground)

Option

RS-232C serial interface, Mini DIN 8-pin x 1

Video Signal Performance

Differential gain (DG)
Within 5% for luminance
from 0 to 70 cd/m2

Differential phase (DP)

Within 5% for luminance from 0 to 70 cd/m2

Frequency response

48 Hz to 30 MHz +1dB/-3 dB

DC restoration

Back porch type, back porch level: within 1% of peak luminance,

10 to 90% APL

Synchronisation

Retrace time Horizontal

under 3.77 µ sec

Vertical

under 650 µ sec

Raster and Picture Performance

Normal scan

5% over scan of the effective picture area Under scan

3% under scan of the effective picture area Linearity

Less than 1% within circle centered on the screen with a diameter equal to the vertical height, 2% at any other point*

Colour temperature

D65 / D93 / D56 / USER1-5

(User adjustable)

Convergence

Less than 0.5mm within circle centered on the screen with a diameter equal to the vertical height, 0.8 mm at any other point Preset brightness

70 cd/m2 (when a 1.0 Vp-p 100% white signal is input)

Stability of raster size

1% of picture height

(at 70 cd/áu peak luminescence,

10 to 90 % APL)

Scan delay

Horizontal

Approx. 2/9 line

Vertical

Approx. 1/2 field

Resolution (Centre)

16:9: 600 TV lines, 4:3 800 TV lines

Operating Conditions

Operating temperature

0 to 35 °C,

Optimum operating range 20 to 30 °C

Storage temperature

-10 to 40 °C

Humidity

30 to 90 % (no condensation)

Mass

Approx. 24 kg Approx. 52 lb 15 oz

BVM-L230 Broadcast Master Monitor (PRELIMINARY INFORMATION)

Responding to the continued demands for a true master monitor, Sony introduces the BVM-L230, a 23-inch* LCD master monitor that uses the all-new TRIMASTER™ technology.

Features

- •Innovative LCD Panel 23-inch Full HD Resolution
 •Precision Backlight System Nonlinear Cubic
 Conversion Colour Management System Selectable
 Colour Space Digital Uniformity Full HD Panel with
 10-bit Driver Newly Developed I/P Conversion
 Technology •Interlace picture reproduction Picture side
 by side display •Black Frame Insertion High Accuracy
 12 bits Display Engine Panel Calibration Colour
 Feedback Multiformat inputs Dual-link video input
 capability DVI-D input format Conventional BVM
- * 22.5-inch viewable area measured diagonally.



Specifications (tentative)

Features and Functions

Pane

Panel size (diagonal) 22.5-inch* Resolution 1920 x 1200 pixels Backlight High-purity LEDs Driver 10 bit Frame Rate 96 Hz, 100 Hz, 120 Hz Input Interface Number of slots 4 Composite (NTSC/PAL/SECAM/PAL-M) BKM-227W Y/C BKM-227W Y/PBPR/RGB BKM-229X SD-SDI BKM-220D HD-SDI BKM-243HS Dual-Link HD-SDI BKM-243HS x 2 pcs Standard x1 (HDCP-compliant) General Dimensions (W x H x D) Approx. 565.5 x 435.2 x 248 mm

Approx. 22 3/8 x 17 1/4 x 9 7/8 inch

^{*} Viewable area measured diagonally.

LMD-2450W 24-inch colour monitor

Features

•Full-HD resolution panel (1920 x 1200 pixels) •Multi-format signal support •ChromaTRU color processing for accurate gamma and stable white balance •Excellent I/P conversion •Excellent brightness and contrast •Extremely wide viewing angle •Advanced marker settings •Color temperature selection •Picture & picture display mode •LAN Ethernet serial remote control •Selectable scan size •Three-color tally •Computer input capability with Smart APA (auto pixel alignment) •Parallel remote control •Stereo audio monitoring •Protected controls •Closed-Caption decoder •VESA Mounting

Supplied Accessories

Display Stand AC power cord AC plug holder Operating Instructions CD-ROM CD-ROM Manual

Optional Accessories

BKM-220D SDI 4:2:2 Input Adaptor BKM-243HS HD SDI&SDI Input Adaptor BKM-227W SONY NTSC/PAL Input Adaptor BKM-229X Analog Component Input Adaptor



Specifications

Picture Performance

Type

A-Si TFT Active Matrix LCD

Resolution

1920 x 1200 pixels (WUXGA)

Picture Size (H x W) (Viewable area)

(Diagonal)

Approx. 518.4 x 324.0 mm

(Approx. 20 1/2 x 12 1/8 inches)

Approx. 609.6 mm (24 inches)

Aspect

16:10

Colors

Approx 1,677,000 colors (8bits)

Viewing Angle

89°/89°/89°/89° (typical)

(up/down/left/right contrast>10:1)

Input

Standard

Composite

BNC x 1, 1.0 VP-p ±3dB sync negative

4pin Mini DIN x 1

Y: 1.0 Vp-p ± 3dB sync negative,

C: 0.286 Vp-p ± 3dB (NTSC burst signal

level), 0.3 Vp-p ± 3dB (PAL burst signal level)

RGB, Component

BNC x 3

RGB: 0.7 Vp-p ± 3dB (Sync On Green,

0.3 Vp-p sync negative)

Component : 0.7 Vp-p ± 3dB (75%

chrominance standard color bar signal)

External Sync

BNC x 1

0.3 to 4.0 Vp-p ± bipolarity ternary or

negative polarity binary

Audio

RCA pin x 2 (L, R) -5 dBu 47 k Ω or

higher

HD15

D-sub 15 pin x 1,

R/G/B: 0.7 Vp-p sync positive (Sync On

Green, 0.3 Vp-p sync negative)

Sync: Total level (polarity free, H/V

separate and composite sync) Plug & Play function: corresponds to

DDC-2B

DVI

TMDS signal link

Parallel remote

Modular connector 8 pin x 1

(pin assignment at users' allocation)

Serial remote (LAN)

D-sub 9-pin (RS232C) x 1,

RJ-45 modular connector (ETHERNET)

x 1 (10BASE-T/100BASE-TX)

DC in

XLR type 4pin x 1 DC24V (output

impedance 0.005 ø or less)

Optional

Option input slot

2 slots (for HD-SDI, SDI capability

and extra analog I/O's)

Output

Standard

Composite

BNC x 1, Loop-though, with

75 Ω automatic termination

Y/C.

4pin mini DIN x 1 Loop-though,

with 75 Ω automatic termination

RGB, Component

BNC x 3, Loop-though,

with 75 Ω automatic termination

External Sync

BNC x 1, Loop-though,

with 75 Ω automatic termination

Audo monitor out

RCA pin type x 2 (L, R)

Speaker (Built-in) 1 W + 1 W (stereo)

General

Power Requirement

AC100V to 240V 50/60Hz 0.6A to

1.1A DC24V.4.6A

Power Consumption

Maximum Approx. 115 W

(with 2 x BKM-229X)

Operating Temperature

0 to 35 °C (recommended operation

temperature 20 to 30 °C)

Operating Humidity

30 to 85% (No condensation)

Storage & Transport Temperature

-20 to 60 °C

Storage & Transport Humidity

0 to 90 % Operating/Storage/Trans. Pressure

700 to 1060 hPa

Dimensions (W x H x D)

Dimension

602.4 x 497.9 x 269.9 mm

(23 3/4 x 19 5/8 x 10 3/4 inch)

Dimension without stand

602.4 x 386.2 x 110.0 mm

(23 3/4 x 15 1/4 x 4 3/8 inch) Display Stand (W x H x D)

320.0 x 361.5 x 269.9 mm

(12 5/8 x 14 1/4 x 10 3/4 inches)

With two option boards

Approx. 11.4 kg (25 lb 2 oz)

with BKM-229X x 2 Without option boards

Approx. 11.0 kg (24 lb 4 oz)

LMD-2050W 20-inch colour monitor

Features

•High resolution panel (1680 x 1050 pixels) •Multi-format signal support •ChromaTRU color processing for accurate gamma and stable white balance •Excellent I/P conversion •Excellent brightness and contrast •Extremely wide viewing angle •Advanced marker settings •Color temperature selection •Picture & picture display mode •LAN Ethernet serial remote control •Selectable scan size •Three-color tally •Computer input capability with Smart APA (auto pixel alignment) •Parallel remote control •Stereo audio monitoring •Protected controls •Closed-Caption decoder •Mounting flexibility (EIA and VESA)

Supplied Accessories

Display Stand AC power cord AC plug holder Operating Instructions CD-ROM CD-ROM Manual

Optional Accessories

BKM-220D SDI 4:2:2 Input Adaptor BKM-243HS HD SDI&SDI Input Adaptor BKM-227W SONY NTSC/PAL Input Adaptor BKM-229X Analog Component Input Adaptor MB-529 Rack-Mount Bracket

Specifications

Picture Performance

A-Si TFT Active Matrix LCD

Resolution

1680 x1050 pixels (WSXGA+)

Picture Size (H x W) (Viewable area) (Diagonal)

Approx. 433.5 x 272.9 mm

(Approx. 17 1/8 x 10 3/4 inches)

Approx. 511.1 mm (20 1/8 inches)

Aspect 16.10

Colors

Approx 1,677,000 colors (8bits)

Viewina Anale

89°/89°/89° (typical)

(up/down/left/right contrast>10:1)

Input

Standard

Composite

BNC x 1, 1.0 VP-p ±3dB sync negative

4pin Mini DIN x 1

Y: 1.0 Vp-p ± 3dB sync negative,

C: 0.286 Vp-p ± 3dB (NTSC burst signal level), 0.3 Vp-p ± 3dB (PAL burst signal

level)

RGB, Component

BNC x 3

RGB: 0.7 Vp-p ± 3dB (Sync On Green,

0.3 Vp-p sync negative)

Component : 0.7 Vp-p ± 3dB (75%

chrominance standard color bar signal)

External Sync

BNC x 1

0.3 to 4.0 Vp-p ± bipolarity ternary or

negative polarity binary

RCA pin x 2 (L, R) -5 dBu 47 k Ω or higher

HD15

D-sub 15 pin x 1,

R/G/B: 0.7 Vp-p sync positive

(Sync On Green, 0.3 Vp-p sync

negative)

Sync: Total level (polarity free, H/V

separate and composite sync) Plug & Play function: corresponds

to DDC-2B

DVI

TMDS signal link

Parallel remote

Modular connector 8 pin x 1 (pin

assignment at users' allocation)

Serial remote (LAN)

D-sub 9-pin (RS232C) x 1, RJ-45 modular connector (ETHERNET) x 1

(10BASE-T/100BASE-TX)

DC in

XLR type 4pin x 1 DC24V (output

impedance 0.005 ø or less)

Optional

Option input slot

2 slots (for HD-SDI, SDI capability and

extra analog I/O's)

Output

Standard

Composite

BNC x 1. Loop-though.

with 75 Ω automatic termination Y/C

4pin mini DIN x 1 Loop-though, with 75 Ω automatic termination

RGB. Component

BNC x 3, Loop-though,

with 75 Ω automatic termination

External Sync

BNC x 1, Loop-though,

with 75 Ω automatic termination

Audo monitor out

RCA pin type x 2 (L, R)

Speaker (Built-in)

1 W + 1 W (stereo)

General

Power Requirement

AC100V to 240V 50/60Hz 0.4A to 0.8A, DC24V 3.3A

Power Consumption

Maximum Approx. 95 W

(with 2 x BKM-229X)

Operating Temperature

0 to 35 °C (recommended operation

temperature 20 to 30 °C)

Operating Humidity

30 to 85% (No condensation)

Storage & Transport Temperature

-20 to 60 °C

Storage & Transport Humidity

0 to 90 %

Operating/Storage/Trans. Pressure 700 to 1060 hPa

Dimensions (W x H x D)

Dimension

518.5 x 468.4 x 269.9 mm (20 1/2 x 18 1/2 x 10 3/4 inch)

Dimension without stand

518.5 x 328.7 x 104.7 mm

(20 1/2 x 13 x 4 1/8 inch)

Display Stand (W x H x D)

320.0 x 361.5 x 269.9 mm

(12 5/8 x 14 1/4 x 10 3/4 inches)

Mass

With two option boards

Approx. 10.5 kg (23 lb 2 oz) with BKM-229X x 2

Without option boards

Approx. 10.1 kg (22 lb 4 oz)

LMD-2030W 20-inch colour monitor

Features

- •High resolution panel (1680 x 1050 pixels) •Multi-format signal support •Excellent brightness and contrast •Wide viewing angle
- •Advanced marker settings •Color temperature selection
- •Selectable scan size •Three-color tally •Parallel remote control
- HDMI input standard Monaural audio monitoring Protected controls . Mounting flexibility (EIA and VESA)

Supplied Accessories

Display Stand AC power cord AC plug holder Operating Instructions CD-ROM CD-ROM Manual

Optional Accessories

MB-529 Rack-Mount Bracket BKM-320D SDI 4:2:2 Input adaptor



Specifications

Picture Performance

Type

A-Si TFT Active Matrix LCD

Resolution

1680 x 1050 pixels (WSXGA+)

Picture Size (H x W) (Viewable area) (Diagonal)

Approx. 433 x 271 mm

(Approx. 17 1/8 x 10 3/4 inches)

Approx. 511 mm (20.1-inch)

Aspect

16:10

Colors

Approx. 16,700,000

Viewing Angle

89°/89°/89°/89° (typical)

(up/down/left/right contrast>10:1)

Input

Line A

Composite

BNC x 1, 1.0 Vp-p ±3dB,

sync 0.3 Vp-p negative

4-pin mini-DIN x 1

Y: 1. 0Vp-p ±3 dB

C: 0.286 Vp-p ±3 dB (NTSC),

0.3 Vp-p ±3 dB (PAL),

sync 0.3 Vp-p negative

Audio in

RCA pin x 1, -5 dBu 47 ø or higher RGB/Component

RGB/Component

BNC x 3, 0.7 Vp-p \pm 3 dB

(Sync on Green 0.3 Vp-p, negative: RGB)

(75% chrominance standard color bar

signal: Component)

Audio in Option

RCA pin x 1, -5 dBu 47 k Ω or higher

D1-SDI

D-sub 9-pin x 1

Audio in

AUDIO input (RCA pin x1),

-5 dBu 47 k Ω or higher

Exernal Sync

BNC x1, 0.3 to 4 Vp-p negative

polarity binary

HDMI input

HDMI x 1

Remote

Parallel remote

Modular connector 8-pin x1

Output

Line A

Composite

BNC x 1, Loop-through,

with 75 Ω automatic termination

DIN 4 pin x 1, Loop-through,

with 75 $\boldsymbol{\Omega}$ automatic termination

Audio out

RCA pin x1, Loop-through

RGB/Component

RGB/Component

BNC x3, Loop-through,

with 75 Ω automatic termination

Audio out

BNC x1, Loop-through,

with 75 Ω automatic terminal function

Exernal Sync

BNC x1, Loop-through,

with 75 Ω automatic terminal function

Built-in speaker output

0.5 W (mono)

General

Power Consumption

Approx. 72 W

Power requirement

AC100 to 240V, 50/60 Hz

Operating Temperature

0 to 35 °C (recommended operation

temperature 20 to 30 °C)

Operating Humidity

30 to 85% (No condensation)

Storage & Transport Temperature

-20 to 60 °C

Storage & Transport Humidity

0 to 90 %

Operating/Storage/Trans. Pressure 700 to 1060 hPa

Dimensions (W x H x D)

Dimension

Approx. 493 x 408 x 264 mm

(19 1/2 x 16 1/8 x 10 1/2 inch)

Dimension without stand

Approx. 493 x 361 x 87mm

(19 1/2 x 14 1/4 x 3 1/2 inch)

Mass

Panel & Stand

Approx. 9.6 kg (212 lb 3 oz)

Panel only

Approx. 7.9 kg (17 lb 6 oz)

LMD-1420 LCD Monitor

14-inch 4:3 aspect high-brightness LCD monitor for professional picture monitoring.

Features

•Precise reproduction of interlace SD images •Excellent brightness and contrast •Faithful colour reproduction •Lightweight and thin •Full range of analogue SD input capability •Digital SD-SDI input capability with the use of the optional BKM-320D •19-inch EIA rack mountable (using MB-526 mounting bracket) •VESA 100 x 100 pitch spacings •Supplied monitor stand •Operational features inherited from Sony PVM monitors. • AR-Coated protection panel • Normal scan and Under scan mode •Assignable parallel remote control

Supplied Accessories

AC power cord x 1 AC plua holder x 2 CD-ROM x 1 Using the CD-ROM Manual x 1

Optional Accessories

MB-526 Mounting Bracket BKM-320D SDI 4:2:2 input Adaptor

Specifications

Picture Performance

LCD Panel Type

A-Si TFT Active Matrix LCD with an AR-coated protection panel

Resolution

640 x 480 dots

Pixel efficiency

99,99%

Dot pitch

0.443(H) x 0.443(V) mm

Picture Size

(H x W) Approx. 283 x 212mm

(Diagonal) 354mm (14 inch)

Aspect

4:3

Colours

Approx. 16,200,000 colours

Viewing Angle

85°/85°/85°/85° (U/D/L/R, contrast

>10:1 typical)

Input

Line A Composite

BNC type x1

1.0Vp-p±3dB 75Ω terminated sync

0.3 Vp-p negative

DIN 4 pin x 1

Y: 1.0Vp-p±3dB 75Ω terminated,

C: 0.286Vp-p±3dB(NTSC),

0.3Vp-p±3dB (PAL) 75Ω terminated,

sync 0.3 Vp-p negative

Audio in RCA pin x 1

-5dBu 47kΩ or higher

Composite BNC type x 1

 $1.0Vp-p\pm3dB$ 75Ω terminated sync

0.3 Vp-p negative

Audio in RCA pin x 1

-5dBu 47kΩ or higher

RGB/Component

RGB/Component BNC type x 3

0.7Vp-p±3dB 75Ω terminated

Sync on Green 0.3Vp-p, negative





Audio in

RCA pin x 1

-5dBu 47kΩ or higher

Option

D1-SDI

D-sub 9-pin x 1

Audio in

RCA pin x 1 -5dBu $47k\Omega$ or higher

Exernal Sync

BNC type x 1

Remote

Parallel remote

Modular 8-pin (Assignable)

Controled through parallel remote

(Moduler 8-pin)

Output

Line A

Composite BNC type x 1

Loop-through, with 75Ω automatic terminal

function

DIN 4 pin x 1

Loop-through, with 75Ω automatic

terminal function

Audio in

RCA pin x 1

Loop-through

Line B

Composite

BNC type x 1

Loop-through

Loop-through, with 75Ω automatic

terminal function

Audio in

RCA pin x 1

RGB/Component

RGB/Component

BNC type x 3

Loop-through, with 75Ω automatic

terminal function

Audio in

RCA pin x 1

Loop-through

External Sync

BNC type x 1 Loop-through

with 75 Ω automatic terminal function

Speaker power

0.5W monaural

General

Power Consumption

Approx. 51W

Power requirement

AC100 240V 50/60Hz Operating Temperature

0 to 35 °C

Operating Humidity

30 to 85% (No condensation)

Storage & Transport Temperature

-10 to 40 °C

Storage & Transport Humidity

0 to 90%

Operating/Storage/Trans. Pressure

700 to 1060 hPa

Dimensions (W x H x D)

Dimension with stand (mm)

Approx. 343 x 354 x 264 mm

Dimension without stand

Approx. 343 x 304 x 87 mm

Mass

Panel & Stand

Approx. 6.8 kg

Panel only

Approx. 5.1 kg

LMD-1410 LCD Monitor

14-inch 4:3 aspect high-brightness LCD monitor for professional picture monitoring.

Features

•Precise reproduction of interlace SD images •Excellent Brightness and Contrast •Faithful colour reproduction •Lightweight and thin •Full range of analogue SD input capability •19-inch EIA rack mountable (using MB-526 mounting bracket) •VESA 100 x 100 pitch spacings •Supplied monitor stand •Operational features inherited from Sony PVM monitors. •Normal scan and Under scan mode •Assignable parallel remote control

Supplied Accessories

AC power cord x 1
AC plug holder x 2
CD-ROM x 1
Using the CD-ROM Manual x 1

Optional Accessories

MB-526 Mounting Bracket

Specifications

Picture Performance

LCD Panel Type

A-Si TFT Active Matrix LCD

Resolution

640 x 480 dots

Pixel efficiency

99.99%

Dot pitch 0.443(H) x 0.443(V) mm

Picture Size (H x W)

icture Size (H x W)

Approx. 283 x 212mm (Diagonal) 354mm (14 inch)

Aspect

4:3

Colours

Approx. 16,200,000 colours

Viewing Angle

85°/85°/85°/85° (U/D/L/R, contrast

>10:1 typical)

Input

Line A

Composite

BNC type x1

 $1.0Vp-p\pm3dB$ 75 Ω terminated sync

0.3 Vp-p negative

Y/C

DIN 4 pin x 1

Y: $1.0Vp-p\pm3dB$ 75Ω terminated,

C: 0.286Vp-p±3dB(NTSC),

 $0.3 \text{Vp-p} \pm 3 \text{dB} \text{ (PAL) } 75 \Omega \text{ terminated,}$

sync 0.3 Vp-p negative Audio in RCA pin x 1

-5dBu 47kΩ or higher

Line B

Composite BNC type x 1

1.0Vp-p±3dB 75Ω terminated sync

0.3 Vp-p negative

Audio in RCA pin x 1

-5dBu 47kΩ or higher

RGB/Component

RGB/Component BNC type x 3

 $0.7\text{Vp-p}\pm3\text{dB}$ 75Ω terminated

Sync on Green 0.3Vp-p, negative

Audio in

RCA pin x 1

-5dBu 47kΩ or higher

Remote

Parallel remote

Modular 8-pin (Assignable)

Output

Line A

Composite BNC type x 1

Loop-through, with 75Ω automatic terminal function

VIC

DIN 4 pin x 1

Loop-through, with 75Ω automatic

terminal function

Audio in

RCA pin x 1

Loop-through

Line B

Composite

BNC type x 1

Loop-through, with 75Ω automatic

terminal function

Audio in

RCA pin x 1

Loop-through

RGB/Component

RGB/Component

BNC type x 3

0 0 0 0

Loop-through, with 75Ω automatic

terminal function

Audio in

RCA pin x 1

Loop-through

Speaker power

0.5W monaural

General

Power Consumption

Approx. 48W

Power requirement

AC100 240V 50/60Hz

Operating Temperature

0 to 35 °C

Operating Humidity

30 to 85% (No condensation)

Storage & Transport Temperature

-10 to 40 °C

Storage & Transport Humidity 0 to 90%

Operating/Storage/Trans. Pressure

700 to 1060 hPa

Dimensions (W x H x D)

Dimension with stand (mm)

Approx. 343 x 354 x 264 mm

Dimension without stand

Approx. 343 x 304 x 87 mm

Mass

Panel & Stand

Approx. 6.5 kg

Panel only

Approx. 4.8 kg

LMD-9050 8.4-inch Multiformat LCD Monitor

Features

Excellent Picture Quality • Excellent Brightness and Contrast •Wide Viewing Angle •170 degrees, horizontally and vertically •AR-Coated Protection Panel •Versatile Input Signals: Composite PAL/NTSC, Y/C, Component and RGB, D1-SDI and HD SDI • Professional

Functionalities •AC/DC operation •Battery operation

•Parallel Remote (Modular 8-pin) •Colour Temperature

Adjustment •Five gamma presets •Underscan mode

•Blue Only Mode •External sync •Aspect ratio switchable

•Three-colour tally lamp. •19-inch EIA dual rack mountable (using the MB-525/528 mounting bracket)

Supplied Accessories

AC power cord x 1 AC plug holder x 1 AC adaptor x 1 Approx.101 x 171 x 88mm (including projections) Approx. 700g Operation Instructions x 1 CD-ROM x 1 Using the CD-ROM Manual x 1

Optional Accessories

MB-525 Mounting Bracket MB-528 Blank Panel Attachment for MB-525 VF-509 ENG Kit (Viewing Hood, Carrying Handle and Connector Protector) BP-GL95/BP-GL65 Rechargeable Lithium-ion Battery Pack BP-L60S Lithium-ion Battery Pack BC-L70 Lithium-ion Battery Charger





Monitors Specifications Picture Performance Type a-Si TFT Active Matrix LCD with AR-coated protection panel Resolution 1024 x 768 dots Pixel efficiency 99.99% Picture Size (WxH) Approx. 170.496 x 127.872mm 8.4 inch (213mm) Aspect 4:3 Colours 16,770,000 colours Viewing Angle 85°/85°/85°/85° (typical) (up/down/left/right contrast.10:1) Input/Output INPUT LINE A Composite BNC x 1 Y/C 4-pin mini-DIN x 1 Audio Minijack 1 LINE B Composite BNC x 1 Audio Minijack 1 RGB/Component BNC x 3 Audio Minijack 1 HD-SDI/D1-SDI BNC x 2 (HD and D1 are automatically detected) Ext.sync BNC x 1 Remote Parallel remote Modular 8-pin x 1 OUTPUT LINE A Y/C 4-pin mini-DINx1 Composite BNC x 1 automatic 75 Ω termination LINE B Composite BNC x 1 automatic 75 Ω termination

HD-SDI/D1-SDI Monitor output

Approx. 25W with AC Adaptor

30 to 85%(No condensation) Operating/Storage/Trans. Pressure 700 to 1060 hPa Storage & Transport Temperature

DC 12V (XLR Connector x1), AC100 to 240V. 50/60Hz (AC power adaptor x1),

BNC x 1 Audio output Minijack 1 Headphones output Mini jack x 1(Monaural)

Speaker output 0.5W (Monaural)

Power requirement

-10 to 40 °C

Battery
Operating Temperature
0 to 35 °C
Operating Humidity

GeneralPower consumption

```
0 to 90%
Dimensions (WxHxD)
  Approx. 216 x 206 (230 including stand)
  x 136.1 (159.5 including stand,
  210 including AC adaptor) mm
Mass
  Approx.3 Kg without supplied Accessories
  (3.11 Kg including stand, 3.9 Kg including
  AC adaptor)
```

Storage & Transport Humidity

Jonitors

LMD-9030 8.4-inch LCD Video monitor

Features

- •One-piece monitor for Standard Definition •4:3/16:9 Switchable Display •SD-SDI capability as standard
- •Analogue composite, Y/C and analogue component interfaces •Can also accept High Definition signals in component analogue format •High picture quality provided by high brightness, high contrast and wide viewing angles •AC/DC power •Battery operation
- •Professional Functionalities •Underscan mode
- •Blue only mode •19-inch EIA standard rack mountable
- •Slim and light •AR-coated panel

Supplied Accessories

AC adaptor (1)
AC Cord (1)
AC plug holder (1)
Operating instructions (1)
CD-ROM (1)
Using the CD-ROM Manual (1)

Optional Accessories

MB-525 Mounting Bracket
MB-528 Blank Panel Attachment for MB-525
VF-509 ENG Kit (Viewing Hood, Carrying Handle and Connector Protector)
BP-GL95/BP-GL65 Rechargeable Lithium-ion Battery Pack
BP-L60S Lithium-ion Battery Pack
BC-L70 Lithium-ion Battery Charger





Monitors

Specifications	Output
Picture Performance	Line A
Туре	Composite
a-Si TFT Active Matrix LCD with a	BNC x 1, Loop-through,
multi-layer AR-coated protection panel	with 75 Ω automatic termination
Resolution	Y/C
640 x 680 dots	4-pin mini-DIN x 1, Loop-through,
Pixel efficiency	with 75 Ω automatic termination
99.99%	Line B
Picture Size (H x W), (Viewable area)	Composite
Approx. 170.9 x 128.2 mm,	BNC x 1, Loop-through,
(Approx. 6 3/4 x 5 1/8 inches)	with 75 Ω automatic termination
(Diagonal) 213.6 mm (8.4-inch)	D1-SDI Monitor output
Aspect	BNC x 1, Output signal amplitude:
4:3	800 mVp-p ±10%, Output impedance:
Colours	75 Ω unbalanced
16,770,000 colours	Audio output
Viewing Angle	Mini jack x 1, Loop-through
85°/85°/85° (typical)	Headphones output
(up/down/left/right contrast>10:1)	Mini jack x 1(Monaural), Loop-through
Input	Speaker output
Line A	0.5 W (Monaural)
Composite	General
BNC x 1, 1.0 Vp-p +3dB,	Power Consumption
-6 dB sync negative	Approx. 16W, With AC Adaptor:
4-pin mini-DIN x 1	Approx. 22 W
Y/C	Power requirement
Y: 1.0 Vp-p + 3dB,	AC 100 to 240 V, 50/60 Hz, 0.82 to 0.42 A
-6 dB sync negative	DC 12 V 1.6 A,
C: 0.286 Vp-p ±3 dB (NTSC),	Rechargeable Battery Pack
0.3 Vp-p ±3 dB (PAL)	Operating Temparature
Audio	0 to 40 °C
Mini jack x 1, -5 dBu 47 kΩ or higher	Operating Humidity
Line B	30 to 85 % (No condensation)
Composite	Operating/Storage/Trans. Pressure
BNC x 1, 1.0 Vp-p +3 dB,	700 to 1060 hPa
-6 dB sync negative	Storage & Transport Temperature
Audio	-20 to 60 °C
	Storage & Transport Humidity
Mini jack x 1, -5 dBu 47 kΩ or higher	0 to 90 %
RGB/Component	
RGB/Component	Dimensions (W x H x D)
BNC x 3, RGB input :	Approx. 216 x 206 x 136.1 mm
0.7 Vp-p +3 dB, -6 dB	(8 5/8 x 8 1/8 x 5 3/8 inches)
(Sync On Green,	Dimension with the supplied stand
0.3 Vp-p sync negative)	Approx. 216 x 230 x 159.5 mm
Component input: 0.7 Vp-p +3 dB,	(8 5/8 x 9 1/8 x 6 3/8 inches)
-6 dB (75% chrominance standard	Dimension with the supplied stand
colour bar signal)	and AC adaptor
Audio	Approx. 216 x 230 x 210 mm
Mini jack x 1, -5 dBu 47 kΩ or higher	(8 5/8 x 9 1/8 x 8 3/8 inches)
Ext.sync	Mass
BNC x 1, 0.3 to 4 Vp-p ± bipolarity ternary	Approx. 2.9 Kg (6 lb 6 oz)
or negative polarity binary	With the supplied stand
D1-SDI	Approx. 3.1 Kg (6 lb 13 oz)
BNC x 2, Sampling frequency :Y/R-Y/B-Y	With the supplied stand and AC adaptor
13.5 MHz, Quantization 10 bits/sample	Approx. 3.8 Kg (8 lb 6 oz)
Remote	1:1:
Parallel remote	
Modular connector	
8-pin x 1(Assignable)	
5 pin x r(x33ignable)	

Jonitors

LMD-9020 8.4-inch LCD Video monitor

Features

- •One-piece monitor for Standard Definition
- •4:3/16:9 Switchable Display •Analogue composite, Y/C and analogue component interfaces •Can also accept High Definition signals in component analogue format •High picture quality provided by high brightness, high contrast and wide viewing angles •AC/DC power
- •Battery operation •Professional Functionalities
- •Underscan mode •Blue only mode•19-inch EIA standard rack mountable •slim and light •AR-coated panel

Supplied Accessories

AC adaptor (1)
AC Cord (1)
AC plug holder (1)
Operating instructions (1)
CD-ROM (1)
Using the CD-ROM Manual (1)

Optional Accessories

MB-525 Mounting Bracket
MB-528 Blank Panel Attachment for MB-525
VF-509 ENG Kit (Viewing Hood, Carrying Handle and Connector Protector)
BP-GL95/BP-GL65 Rechargeable Lithium-ion Battery Pack
BP-L60S Lithium-ion Battery Pack
BC-L70 Lithium-ion Battery Charger





Monitors

Specifications	Mini jack x 1(Monaural), Loop-through
Picture Performance	Speaker output
Type	0.5 W (Monaural) General
a-Si TFT Active Matrix LCD with a	Power Consumption
multi-layer AR-coated protection panel Resolution	Approx. 15 W, With AC Adaptor :
640 x 680 dots	Approx. 20 W
Pixel efficiency	Power requirement
99.99%	AC 100 to 240 V, 50/60 Hz, 0.82 to 0.42 A,
Picture Size (H x W), (Viewable area)	DC 12 V 1.5 A,
Approx. 170.9 x 128.2 mm,	Rechargeable Battery Pack
(Approx. 6 3/4 x 5 1/8 inches)	Operating Temparature
(Diagonal) 213.6 mm (8.4-inch)	0 to 40 °C
Aspect	Operating Humidity
4:3	30 to 85 % (No condensation)
Colours 1	Operating/Storage/Trans. Pressure
6,770,000 colours	700 to 1060 hPa Storage & Transport Temperature
Viewing Angle 85°/85°/85°/85° (typical)	-20 to 60 °C
(up/down/left/right contrast>10:1)	Storage & Transport Humidity
Input	0 to 90 %
Line A	Dimensions (W x H x D)
Composite	Approx. 216 x 206 x 136.1 mm
BNC x 1, 1.0 Vp-p +3dB,	(8 5/8 x 8 1/8 x 5 3/8 inches)
-6 dB sync negative 4-pin mini-DIN x 1	Dimension
Y/C	with the supplied stand
Y : 1.0 Vp-p + 3dB,	Approx. 216 x 230 x 159.5 mm
-6 dB sync negative	(8 5/8 x 9 1/8 x 6 3/8 inches)
C: 0.286 Vp-p ±3 dB (NTSC),	Dimension
0.3 Vp-p ±3 dB (PAL)	with the supplied stand and AC adaptor
Audio	Approx. 216 x 230 x 210 mm (8 5/8 x 9 1/8 x 8 3/8 inches)
Mini jack x 1, -5 dBu 47 k Ω or higher Line B	Mass
Composite	Approx. 2.8 Kg (6 lb 3 oz)
BNC x 1, 1.0 Vp-p +3 dB,	With the supplied stand Approx.
-6 dB sync negative	3.0 Kg (6 lb 10 oz)
Audio	With the supplied stand and AC adaptor
Mini jack x 1, -5 dBu 47 k Ω or higher	Approx. 3.7 Kg (8 lb 3 oz)
RGB Component	
RGB/Component	
BNC x 3,	
RGB input : 0.7 Vp-p +3 dB, -6 dB	
(Sync On Green,	
0.3 Vp-p sync negative) Component input: 0.7 Vp-p +3 dB, -6 dB	
(75% chrominance standard colour bar	
signal)	
Audio	
Mini jack x 1, -5 dBu 47 k Ω or higher	
Ext.sync	
BNC x 1, 0.3 to 4 Vp-p ± bipolarity	
ternary or negative polarity binary	
Remote	
Parallel remote	
Modular connector	
8-pin x 1(Assignable)	
Output Line A	
Composite	
BNC x 1, Loop-through,	
with 75 Ω automatic termination	
Y/C	
4-pin mini-DIN x 1, Loop-through,	
with 75 Ω automatic termination	
Line B	
Composite	
BNC x 1, Loop-through,	
with 75 Ω automatic termination	
Audio output Mini jack v. 1. Loop through	
Mini jack x 1, Loop-through Headphones output	
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LMD-7220W Multiple LCD Monitor

Features

Dual screen 7-inch 16:9 aspect ratio high-brightness LCD monitor •7-inch 16:9 aspect ratio LCD panels (x2)

- •Selectable Aspect Ratio (between 16:9 and 4:3)
- ·High picture quality provided by high brightness,

high contrast, wide viewing angle panels •19-inch EIA standard rack mountable •SDI input (using BKM-320D optional input adaptor) •Low power consumption

•Slim and Light •5-step tilt

Supplied Accessories

AC power adaptor (1) AC power cord (1)

AC plug holder (1) Screws for AC adaptor holder (2)

Operating Instructions (1)

Optional Accessories

BKM-320D SDI 4:2:2 Input adaptor





Specifications

LCD Panel

Type

a-Si TFT Active Matrix LCD

Resolution

480 x 234 dots

Pixel efficienty

99,99%

Picture Size (H x W)

Approx. 154.1 x 86.6 mm

(6 1/8 x 3 1/2 inches)

Diagonal

7 inches (176.7 mm)

Aspect

16:09 Colours

Full colour

Viewing Angle

40°/65°/65°/65° (typical)

(up/down/left/right contrast>10:1)

Input / Output

Composite

Input BNC (x 2)

1.0 Vp-p ±2 dB, sync negative

BNC (x 2), Loop through Automatic

75 Ω termination

OPTION IN

D-sub 9pin connector (x2)

Remote

Parallel

Modular 8 pin (x2)

General

Power Consumption

Maximum: Approx. 68 W

(with 2 x BKM-320D)

Standard:

Approx. 23 W

(without optional input adaptor)

Power Requirement

12V DC (with the supplied

AC power adaptor)

AC power adaptor:

AC 100 to 240 V, 50/60 Hz

Peak inrush current

(1) Power on, current probe method: 57A

(230V)

(2) Hot switching inrush current, measured

in accordance with European standard

EN55103-1:8A (230V)

Operating Temperature

0 to 35°C (32 to 95°F)

Operating Humidity

30 to 85 % (no condensation)

Storage & Transport Temperature

-10 to 40°C (14 to 104°F)

Storage & Transport Humidity

0 to 90 %

Operating / Storage / Trans. Pressure

700 hPa to 1060 hPa

Dimensions (W x H x D)(inches) 482 x 133 x 47 (19 x 5 1/4 x 1 7/8)*1

With AC adaptor and BKM-320D:

482 x 133 x 116 (19 x 5 1/4 x 4 5/8)

Approx. 2.3Kg (5 lb 1 oz)*2

^{*1} Without projecting parts.

^{*2} Excluding supplied accessories.

LMD-5320 Multiple LCD Monitor

Features

Triple screen 5.6-inch 4:3 aspect ratio high-brightness LCD monitor •5.6-inch 4:3 aspect ratio LCD panels (x3) •High picture quality provided by high brightness, high contrast, wide viewing angle panels •19-inch EIA standard rack mountable •SDI input (using BKM-320D optional input adaptor) •Low power consumption •Slim and Light •5-step tilt

Supplied Accessories

AC power adaptor (1) AC power cord (1) AC plug holder (1) Screws for AC adaptor holder (2) Operating Instructions (1)

Optional Accessories

BKM-320D SDI 4:2:2 Input adaptor





Specifications

LCD Panel

Type

a-Si TFT Active Matrix LCD

Resolution

320 x 234 dots

Pixel efficienty

99,99%

Picture Size (H x W)

Approx. 113 x 85 mm (4 1/2 x 3 3/8 inches)

Diagonal

5 5/8 inches (142.24 mm)

Aspect 4:03

Colours

Full colour

Viewing Angle

50°/30°/50°/50°(typical)

(up/down/left/right contrast>10:1)

Input / Output

Composite

Input

BNC (x 3)

1.0 Vp-p ±2 dB, sync negative

Output

BNC (x 3), Loop through Automatic 75 Ω

termination

OPTION IN

D-sub 9pin connector (x3)

Remote

Parallel

Modular 8 pin (x3)

General

Power Consumption

Maximum: Approx. 28W

(with 3 x BKM-320D)

Standard:

Approx. 22 W (without optional input adaptor)

Power Requirement

12V DC (with the supplied AC power adaptor)

AC power adaptor: AC 100 to 240 V, 50/60 Hz

Peak inrush current

(1) Power on, current probe method:55A

(230V)

(2) Hot switching inrush current, measured

in accordance with European standard

EN55103-1:8A (230V) Operating Temperature

0 to 35°C (32 to 95°F)

Operating Humidity

30 to 85 % (no condensation)

Storage & Transport Temperature

-10 to 40°C (14 to 104°F)

Storage & Transport Humidity

0 to 90 %

Operating / Storage / Trans. Pressure

700 hPa to 1060 hPa

Dimensions (W x H x D)(inches)

482 x 88.1 x 47 mm (19 x 3 1/2 x 1 7/8)*1

With AC adaptor and BKM-320D:

482 x 88.1 x 116 mm (19 x 3 1/2 x 4 5/8)

Approx. 2.3Kg (5 lb 1 oz)*2

^{*1} Without projecting parts.

^{*2} Excluding supplied accessories.

LMD-4420 Multiple LCD Monitor

Features

Quad screen 4-inch 4:3 aspect ratio high-brightness LCD monitor •4-inch 4:3 aspect ratio LCD panels (x4) •High picture quality provided by high brightness, high contrast, wide viewing angle panels •19-inch EIA standard rack mountable •SDI input (using BKM-320D optional input adaptor) •Low power consumption •Slim and Light •3-step tilt

Supplied Accessories

AC power adaptor (1) AC power cord (1) AC plug holder (1) Screws for AC adaptor holder (2) Operating Instructions (1)

Optional Accessories

BKM-320D SDI 4:2:2 Input adaptor





Specifications

LCD Panel

Type

a-Si TFT Active Matrix LCD

Resolution

480 x 234 dots

Pixel efficienty

99,99%

Picture Size (H x W)

Approx. 82.1 x 61.8 mm (3 1/4 x 2 1/2 inches)

Diagonal

4 1/8 inches (102.8 mm)

Aspect 4:03

Colours

Full colour

Viewing Angle

50°/30°/50°/50°(typical)

(up/down/left/right contrast>10:1)

Input / Output

Composite

Input

BNC (x 4) 1.0 Vp-p ±2 dB, sync negative

Output

BNC (x 4), Loop through Automatic

75 Ω termination

OPTION IN

D-sub 9pin connector (x4)

Remote

Parallel

Modular 8 pin (x4)

General

Power Consumption

Maximum: Approx. 26 W (with 4 x BKM-320D)

Standard: Approx. 18 W (without optional input

adaptor)

Power Requirement

12V DC (with the supplied AC power adaptor)

AC power adaptor: AC 100 to 240 V, 50/60 Hz

Peak inrush current

(1) Power on, current probe method:

35A (230V)

(2) Hot switching inrush current, measured

in accordance with European standard

EN55103-1:8A (230V)

Operating Temperature

0 to 35°C (32 to 95°F)

Operating Humidity

30 to 85 % (no condensation)

Storage & Transport Temperature

-10 to 40°C (14 to 104° F)

Storage & Transport Humidity

0 to 90 %

Operating / Storage / Trans. Pressure

700 hPa to 1060 hPa

Dimensions (W x H x D)(inches)

482 x 88.1 x 47 (19 x 3 1/2 x 1 7/8)*1

With AC adaptor and BKM-320D:

482 x 88.1 x 116 (19 x 3 1/2 x 4 5/8)

Mass

Approx. 1.9 Kg (4 lb 3 oz)*2

- *1 Without projecting parts.
- *2 Excluding supplied accessories.

Monitor Accessories

Monitor Accessories

BKM-14L 434
BKM-15R434
BKM-16R
BKM-227W
BKM-229X436
BKM-220D436
BKM-243HS437
BKM-30E14437
BKM-30E20437
BKM-320D438
BKM-35H438
BKM-37H438
BKM-61D438
BKM-62HS439
BKM-68X439
MB-510440
MB-525440
MB-526440
MB-528441
MB-529441
SMF-700441
\/F_500 /4/2

BKM-14L Auto Setup Probe

Features

- •External probe for colour temperature auto alignment
- •Auto white balance •Colour temperature analysis



Applicable Models

BVM-A20F1M Broadcast Video Monitor BVM-A14F5M Broadcast Video Monitor

Specifications

Mass

135 g (4 oz)

BKM-15R Monitor control unit

Features

- •Central control unit
- •up to 32 monitors can be controlled



Applicable Models

BVM-A20F1M Broadcast Video Monitor BVM-A14F5M Broadcast Video Monitor

Specifications

LAN (10 BASE-T/100 BASE-TX) RJ-45x1 AC 100/240V or DC 5V in

Dimensions

424 (W) x 58.8 (H) x 247.8 (D) mm (16 3/4 x 2 3/8 x 9 7/8 inches)

Mass

2.1kg (4 lb 10 oz)

BKM-16R Monitor control unit

Features

- Central control unit
- •up to 32 monitors can be controlled



Applicable Models

BVM-L230 Broadcast Video Monitor

Specifications

LAN (10 BASE-T/100 BASE-TX) RJ-45x1 AC 100/240V or DC 5V in

Dimensions

424 x 59 x 156.5 (WHD) mm (16 11/16 x 2 5/16 x 6 3/16 inches)

Mass

2.1kg (4 lb 10 oz)

BKM-227W NTSC/PAL Input Adaptor

•Input adaptor for NTSC/PAL signals •Composite (BNCx 1) input/output •Y/C (4-pin mini DIN x 1) input/output

Supplied Accessories

Operating instructions (1)

Applicable Models

BVM-L230 LCD Monitor LMD-2050W LCD monitor LMD-2450W LCD monitor



Specifications

General

Mass

Approx. 240 g (8 oz)

Voltage

3.3 V, +5 V (supplied from the main unit)

Power consumption

Approx. 1.8 W

Operating conditions

Temperature

0°C to 35°C (32°F to 95°F)

Optimum temperature

20°C to 30°C (68°F to 86°F)

0% to 90% (no condensation)

Pressure

700hPa to 1060 hPa

Storage and transport conditions

Temperature

-10°C to 40°C (14°F to 104°F)

Humidity

0% to 90%

Pressure

700 hPa to 1060 hPa

Maximum external dimensions (W/H/D)

100 x 20 x 162 mm

(4 x 13/16 x 6 1/2 inches)

Input/output connectors

Video input connector

Composite

BNC x 1

1 Vp-p ± 3 dB sync negative

Y/C

4-pin mini DIN x 1

Y: 1 Vp-p ± 3 dB sync negative

C: 0.286 Vp-p ± 3 dB (NTSC burst signal level) 0.3 Vp-p ± 3 dB (PAL burst signal level)

Video output connector

BNC x 1

Loop-through, 75 Ω automatic termination 4-pin mini DIN x 1

Loop-through, 75 Ω automatic termination

Signal characteristics

Video signal (NTSC/PAL)

Sampling frequency Y/R-Y/B-Y: 13.5 MHz

Quantization

10 bits/sample

BKM-229X Analogue Component Input Adaptor

•Input adaptor for analog component signals •BNC (x 3) input/output connectors •Accepts RGB and Component video signals including 575/50i, 480/60i, 576/50p, 480/60p, 1080/50i, 1035/60i, 1080/60i, 720/60p

Supplied Accessories

Operating instructions (1)

Applicable Models

BVM-L230 LCD Monitor LMD-2050W LCD monitor LMD-2450W LCD monitor



Specifications

General

Approx. 250 g (9 oz)

Voltage

3.3 V, +5 V (supplied from the main unit)

Power consumption

Approx. 4.0 W

Operating conditions

Temperature

0°C to 35°C (32°F to 95°F)

Optimum temperature

20°C to 30°C (68°F to 86°F)

Humidity

0% to 90% (no condensation)

Pressure

700hPa to 1060 hPa

Storage and transport conditions

Temperature

-10°C to 40°C (14°F to 104°F)

Humidity

0% to 90%

Pressure

700 hPa to 1060 hPa

Maximum external dimensions (W/H/D)

100 x 20 x 162 mm

(4 x 13/16 x 6 1/2 inches)

Input/output connectors

Video input connector

BNC x 3

RGB

0.7 Vp-p ± 3 dB (Sync on Green,

0.3 Vp-p sync negative)

Component

0.7 Vp-p ± 3 dB

External syncrhonized input

BNC x 1

0.3 to 4 Vp-p ± bipolarity ternary

or negative polarity binary

Signal characteristics

Video signal (Y/R-Y/B-Y)

Quantization: 10 bits/sample Y/R-Y/B-Y: 13.5 MHz

BKM-220D SDI 4:2:2 Input Adaptor

SDI 4:2:2 Input Adaptor main unit providing video input and output connectors for the main unit and a decoder for serial digital component signals.

Features

- Decoder for serial digital component signals
- ·Serial digital input and output signal connector

Applicable Models

BVM-L230 LCD Monitor LMD-2450W LCD Monitor LMD-2050W LCD Monitor

Supplied Accessories

Operating Instructions (1)

Specifications

General

Mass

Approx. 250 g (9 oz)

Voltage

+5 V (supplied from the main unit)

Power consumption

Approx. 1.5 W

Operating conditions

Temperature

0°C to 35°C (32°F to 95°F)

Optimum temperature

20°C to 30°C (68°F to 86°F)

Humidity

0% to 90% (no condensation)

Pressure

700hPa to 1060 hPa

Storage and transport conditions

Temperature

-10°C to 40°C (14°F to 104°F)

Humidity

0% to 90%

Pressure

700 hPa to 1060 hPa

Maximum external dimensions (w/h/d)

100 x 20 x 162 mm

(4 x 13/16 x 6 1/2 inches)

Input/output connectors

Digital input

BNC x 2, with monitor output connector

Signal characteristics

Digital component signals

Sampling frequency

Y/R-Y/B-Y: 13.5 MHz

Quantization 10bits/sample

MONITOR OUT

Output signal amplitude: $800 \text{ mVp-p} \pm 10\%$

Output impedance:

75-ohms unbalanced

Transmission distance

200 m (approx. 656 ft) max. (When using 5C-2V coaxial cables (Fujikura.

Inc.) or equivalent.)

ccessories

BKM-243HS HD SDI & SDI Input Adaptor

HD SDI & SDI Input Adaptor providing video input and output connectors for the main unit and a decoder for HD/D1 serial digital component signals.

Features

- ·Decoder for serial digital component signals
- ·Serial digital input and output signal connector



Applicable Models

BVM-L230 LCD Monitor LMD-2450W LCD Monitor LMD-2050W LCD Monitor

Supplied Accessories

Operating Instructions (1)

Specifications

General

Voltage

+3.3 V, +5 V (supplied from the main

Power consumption

Approx. 2 W Operating conditions

Temperature

0°C to 35°C (32°F to 95°F)

Optimum temperature

20°C to 30°C (68°F to 86°F)

Humidity

0% to 90% (no condensation)

Pressure

700hPa to 1060 hPa

Storage and transport conditions

Temperature

-10°C to 40°C (14°F to 104°F)

Humidity

0% to 90%

Pressure

700 hPa to 1060 hPa

Maximum external dimensions (w/h/d)

100 x 20 x 162 mm

(4 x 13/16 3 6 1/2 inches)

Mass

Approx. 250 g (9 oz)

Input/output connectors

Digital input

BNC x 2, with monitor output connector

Signal characteristics

Digital component signals

Sampling frequency

D1-SDI: Y/R-Y/B-Y: 13.5 MHz

HD-SDI: Y/PB/PR: 74.25 MHz

Quantization

10bits/sample

MONITOR OUT

Output signal amplitude:

800 mVp-p ± 10%

Output impedance:

75-ohms unbalanced

Transmission distance

D1-SDI: 200 m (approx. 656 ft) max. (When using 5C-2V coaxial cables

(Fujikura. Inc.) or equivalent.)

HD-SDI: 100 m (approx. 328 ft) max.

(When using 5C-FB coaxial cables (Fujikura. Inc.) or equivalent.)

BKM-30E14 Rack Mount Kit

Features

•19-inch EIA standard rack mount kit for 14-inch stand-alone monitors

Applicable Models

BVM-A14F5M Broadcast Video Monitor



BKM-30E20 Rack Mount Kit

Features

•19-inch EIA standard rack mount kit for 20-inch monitors

Applicable Models

BVM-A20F1M Broadcast Video Monitor



BKM-320D SDI 4:2:2 Input adaptor

SDI 4:2:2 Input adaptor

Applicable Models

LMD-4420 Multiple LCD Monitors LMD-5320 Multiple LCD Monitors LMD-7220W Multiple LCD Monitors LMD-2030W LCD Monitors LMD-1420 LCD Monitors



Signal characteristics
Input signal format:
SMPTE259M 270Mbps, 10bit, 4:2:2
component digital video
Input/output connectors
Input: BNC x 1

Output: D-sub9 pin General

Power requirements: +5V(supplied from the monitor)

Power consumption: Approx.1.7W Dimensions(W x H X D):



Approx.68 x 20 x 56 mm(2 3/4 x 1 3/16 x 2 1/4 inches)

Mass: Approx.75q(3oz)

BKM-35H Control Unit Attachment Kit

Features

 Attachment kit to attach BKM-15R to BVM-A20F1M

Applicable Models

BVM-A20F1M Broadcast Video Monitor



BKM-37H Control Unit Attachment Kit

Features

 Attachment kit to attach BKM-16R to BVM-A20F1M

Applicable Models

BVM-L230 Broadcast Video Monitor

BKM-61D SDI/Analogue multi input adaptor

Features

•SDI input with monitor output and analogue composite video inputs with loopthrough

Applicable Models

BVM-A20F1M Broadcast Video Monitor BVM-A14F5M Broadcast Video Monitor

Specifications

SDI

2x inputs / 1x monitor output (BNC) Composite PAL/NTSC/SECAM 3x inputs with loop through (BNC)

Y/C 1x input (BNC)

Dimensions

25 (W) x 256 (H) x 248 (D) mm (1 x 10 1/8 x 9 7/8 inches)

Mass

930g (2 lb 1oz)



Monitor Accessories

BKM-62HS HD SDI/SDI Input Adaptor

Features

•Automatic detection for HD/SD signal •Multi format capability •Single or dual link HD signal

Applicable Models

BVM-A20F1M Broadcast Video Monitor BVM-A14F5M Broadcast Video Monitor

Specifications

HD SDI / SDI

2x inputs with 2x Monitor output (BNC) accept 4:4:4 HD, 4:2:2HD and 4:2:2 Multi format: 1080/48i, 1080/50i, 576/50p, 480/60p, 1035/60i, 1080/60i, 720/50p, 720/60p

Dimensions

25 (W) x 256 (H) x 248 (D) mm (1 x 10 1/8 x 9 7/8 inches)

Mass

910g (2 lb)



BKM-68X HD/SD Analogue Component Input Adaptor

Features

Analogue Component/RGB input

Applicable Models

BVM-A20F1M Broadcast Video Monitor BVM-A14F5M Broadcast Video Monitor

Specifications

1x Y/Pb/Pr or RGB input with loop through (BNC) 1x Ext Sync with loop through (BNC) Multi format: 1080/48i, 1080/50i, 576/50p, 480/60p, 1035/60i, 1080/60i, 720/50p, 720/60p

Dimensions

25 (W) x 256 (H) x 248 (D) mm (1 x 10 1/8 x 9 7/8 inches)

Mass

900g (1 lb 16 oz)



MB-510 Mounting Attachment

Features

•Mounting attachment for attaching BKM-15R control unit to monitors

Applicable Models

BKM-15R Central Control Unit



MB-525 Mounting Bracket

Features

5U size Rack-Mount Bracket

Applicable Models

LMD-9050 LCD Monitor LMD-9030 LCD Monitor LMD-9020 LCD Monitor

Specifications

Dimension (W x H x D):

Approx. 484.4 x 222.5 x 158 mm

Mass:

Approx. 1.8kg



MB-526 Mounting Bracket

Features

7U size Rack-Mount Bracket

Applicable Models

LMD-1410 LCD Monitor LMD-1420 LCD Monitor

Specifications

Dimensions (W x H x D):
Approx. 483 x 310 x 89 mm
Mass:

Approx. 2kg



Monitor Accessories

MB-528 Blank Panel

Applicable Models

MB-525

Specifications

Dimensions (W x H x D):
Approx. 216 x 208 x 49 mm
Mass:

Approx. 0.6kg



MB-529 Rack-Mount Bracket

Applicable Models

LMD-2030W LCD monitor LMD-2050W LCD monitor

Specifications

Dimensions (W x H x D):
Approx. 216 x 208 x 49 mm
Mass:

Approx. 0.6kg



SMF-700 Monitor Interface Cable

Features

Ethernet and DC power cable for connection between BKM-15R and BVM-A series

Applicable Models

BVM-A20F1M Broadcast Video Monitor BVM-A14F5M Broadcast Video Monitor BKM-15R Central Control Unit

Specifications

2 metres length



VF-509 Monitor ENG Kit

Features

Monitor ENG Kit • Carrying Handle, Viewing Hood and Cable Protector are included.

Applicable Models

LMD-9050 LCD Monitor LMD-9030 LCD Monitor LMD-9020 LCD Monitor

Specifications

Mass:

Approx.: 1.3kg



ata Projector

Data Projectors

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VPL-CX61 Multi Purpose XGA Projector

Lamp

Type

190W UHP



High brightness and a range of additional features ensure that the VPL-CX61 will meet the requirements of even the most demanding multi purpose projector users.

Features

•Side Shot™ for flexibility •Advanced Intelligent Auto Set-up and Auto Focus •Brightness in ANSI Lumens: 2500 •Contrast Ratio: 350:1 •Projection System: 3 LCD panels 1 lens system •Panel Size: 0.79 inch •Native resolution: XGA 1024x768x3 •Max. Input Signal Resolution: SXGA+ 1400x1050 •Low Fan Noise: 28dB •Screen Size (diagonally): 40 - 300 inch / 102 - 762 cm



Supplied Accessories

Remote Control (RM-PJ5) Battery Remote Connecting Cable (HD 15-pin) Replacement Air Filter AC Power Cord

Optional Accessories

Replacement Lamp Ceiling Mount Bracket Ceiling Security Mount Bracket

Inputs

HD D-sub 15-pin (1) Composite Video (1) S-Video (1)

28dB Keystone Correction Vertical +/- 30° Horizontal Side Shot

Audio in (1) **Specifications** Brightness in ANSI Lumens 2500 Contrast Ratio 350:1 Projection System 3 LCD panels 1 lens system LCD Panel Size 0.79 inch Native Resolution XGA 1024x768x3 Max. Input Signal Resolution SXGA+ 1400x1050 Standard zoom 1.2 times (Powered) Optional No Fan Noise

Life in hours 3000 Replacement LMP-C190 Screen Size (diagonally) 40 - 300 inch 102 - 762 cm Throwing Distance 80"/2m screen 2.47 - 2.84m 100"/2.5m screen 3.07 - 3.45m Ceiling Mount Bracket (optional accy) PSS-AT6 Speaker 1W Mono HD ready Filter Cleaning Time (Hours) 1000 Off & Go Power Consumption Max: 280W Standby: 5W Colour Silver/Black Dimensions (WxHxD) in mm 328x92.6x283.8 Weight 3.7kg



VPL-CX63 Multi Purpose XGA Projector

Lamp

Type 190W UHP



High brightness and a range of additional features ensure that the VPL-CX63 will meet the requirements of even the most demanding multi purpose projector users.

Features

•Side Shot™ for flexibility •Advanced Intelligent Auto Set-up and Auto Focus •Brightness in ANSI Lumens: 3000 •Contrast Ratio: 350:1 •Projection System: 3 LCD panels 1 lens system •Panel Size: 0.79 inch •Native resolution: XGA 1024x768x3 •Max. Input Signal Resolution: SXGA+ 1400x1050 •Low Fan Noise: 28dB •Screen Size (diagonally): 40 - 300 inch / 102 - 762 cm



Supplied Accessories

Remote Control (RM-PJ5) Battery Remote Connecting Cable (HD 15-pin) Replacement Air Filter AC Power Cord

Optional Accessories

Replacement Lamp Ceiling Mount Bracket Ceiling Security Mount Bracket

HD D-sub 15-pin (1) Composite Video (1) S-Video (1)

Audio in (1) **Specifications** Brightness in ANSI Lumens 3000 Contrast Ratio 350:1 Projection System 3 LCD panels 1 lens system LCD Panel Size 0.79 inch Native Resolution XGA 1024x768x3 Max. Input Signal Resolution SXGA+ 1400x1050 Standard zoom 1.2 times (Powered) Optional No Fan Noise 28dB

Keystone Correction Vertical +/- 30° Horizontal Side Shot

Life in hours 3000 Replacement LMP-C190 Screen Size (diagonally) 40 - 300 inch 102 - 762 cm Throwing Distance 80"/2m screen 2.47 - 2.84m 100"/2.5m screen 3.07 - 3.45m Ceiling Mount Bracket (optional accy) PSS-AT6 Speaker 1W Mono HD ready Filter Cleaning Time (Hours) 1000 Off & Go Power Consumption Max: 280W Standby: 5W Colour Silver/Black Dimensions (WxHxD) in mm 328x92.6x283.8 Weight 3.7kg



VPL-CX76 Wireless Mobile XGA Projector



Wireless presentations are made truly simple with the VPL-CX76, using Sony Air Shot™ (Version 2) technology.

Features

•Air Shot™ (Version 2) technology enables connection using the 802.11b/g standard •All wireless Air Shot™ accessories are supplied •Brightness in ANSI Lumens: 2500 •Contrast Ratio: 350:1 •Projection System: 3 LCD panels 1 lens system •Panel Size: 0.79 inch •Native resolution: XGA 1024x768x3 •Max. Input Signal Resolution: SXGA+ 1400x1050 •Low Fan Noise: 30dB •Screen Size (diagonally): 40 - 300 inch / 102 - 762 cm •Memory Stick Standard, Pro and Duo



Supplied Accessories

Remote Control (RM-PJM17 & PJP1)
Battery Remote (2xR6 & 2xR03)
Connecting Cable (HD 15-pin & USB)
Replacement Air Filter
Carrying Case (Soft)
802.11b/g Air Shot 2

Optional Accessories

Replacement Lamp Ceiling Mount Bracket USB Wireless Module with Memory for PC

Inputs

D sub 15-pin (Input A) (1)
Composite Video (1)
S-Video, Component Video (via Input A) (1)
USB (1)
Wireless LAN Card Slot (1)
Audio in (1)
Memory Stick Standard, Pro & Duo (1)

Specifications Brightness in ANSI Lumens 2500 Contrast Ratio 350:1 Projection System 3 LCD panels 1 lens system LCD Panel Size 0.79 inch Native Resolution XGA 1024x768x3 Max. Input Signal Resolution SXGA+ 1400x1050 Standard zoom 1.2 times (Powered) Optional

No Fan Noise 30dB

Vertical +/- 30° (H=0) Horizontal Side Shot Lamp Type 165W UHP Life in hours 3000 Replacement LMP-C161 Screen Size (diagonally) 40 - 300 inch 102 - 762 cm Throwing Distance 80"/2m screen 2.4 - 2.7m 100"/2.5m screen 3.0 - 3.4 mCeiling Mount Bracket (optional accy) PSS-AT4 Speaker 1W Mono HD ready No Filter Cleaning Time (Hours) 500 Off & Go Yes Power Consumption Max: 240W Standby: 9W Colour Pearl White Dimensions (WxHxD) in mm 298x69x244 Weight 2.9kg

Keystone Correction

VPL-CX86 Wireless Bright XGA Installation Projector



Wireless, stylish and fully packed with a great range of features suitable for standard installation, integration in AV systems, stand-alone display or connection to a LAN.

Features

- •Air Shot™ (Version 2) technology enables a faster and more secure connection using the 802.11b/g standard
- •All wireless Air Shot™ accessories are supplied
- •Connectors include an RS-232C port for management and control of the projector •Two 15-pin D Sub inputs allow for flexible connection •Brightness in ANSI Lumens: 3000 •Contrast Ratio: 350:1 •Projection System: 3 LCD panels 1 lens system •Panel Size: 0.79 inch •Native resolution: XGA 1024x768x3 •Max. Input Signal Resolution: SXGA+ 1400x1050 •Low Fan Noise: 28dB
- •Screen Size (diagonally): 40 300 inch / 102 762 cm
- •Memory Stick Standard, Pro and Duo



Supplied Accessories

Remote Control (RM-PJM17 & PJP1) Battery Remote (2xR6 & 2xRC3) Connecting Cable (HD 15-pin & USB) Replacement Air Filter Carrying Case (Soft)

Optional Accessories

802.11b/g Air Shot 2

Replacement Lamp Ceiling Mount Bracket USB Wireless Module with Memory for PC

Inputs

D sub 15-pin (Input A/B) (2) Composite Video (1) S-Video (1) Component Video (via Input A) (1) USB (1) RS-232C (1) Wireless LAN Card slot (1) Audio In (2) Memory Stick Standard, Pro & Duo **Specifications** Brightness in ANSI Lumens

3000 Contrast Ratio 350:1 Projection System 3 LCD panels 1 lens system LCD Panel Size 0.79 inch Native Resolution XGA 1024x768x3 Max. Input Signal Resolution SXGA+ 1400x1050 Standard zoom 1.2 times (Powered) Optional

Fan Noise 28dB

Keystone Correction Vertical +/- 30° (H=0) Horizontal Side Shot Lamp Type 190W UHP Life in hours 3000 Replacement LMP-C190 Screen Size (diagonally) 40 - 300 inch 102 - 762 cm Throwing Distance 80"/2m screen 2.4 - 2.7m 100"/2.5m screen 3.0 - 3.4 mCeiling Mount Bracket (optional accy) PSS-AT3 Speaker 1W Mono HD ready No Filter Cleaning Time (Hours) 1000 Off & Go Yes Direct On/Off Power Consumption Max: 280W Standby: 7W Colour Pearl White Dimensions (WxHxD) in mm 328x93x284 Weight 3.8kg

VPL-CX100 Data Projector



Features

·High picture quality (XGA resolution) and bright images (2700 lumens) •3LCD projection system •Multiple interfaces for flexible configurations •Easy lamp replacement and filter cleaning (minimal maintenance) · Vertical digital keystone correction · Quiet and efficient operation •High security (control panel key lock, password authentication system, security bar, and Kensington lock) • Compact Card-Type remote commander unit •Digital zoom function (up to 4x) •Image freeze function •Smart APA (auto pixel alignment) •Multi language OSD •Ceiling mount design* •Direct power On/Off •Picture/Audio muting •Low power consumption (0.5 w standby power)



Supplied Accessories

Remote Commander Unit (Card type) (1) Lithium battery CR2025 (2) Lens cap (1) HD D-sub 15-pin cable (2m) (1) AC Power Cord (1) Operating Instructions and Application Software (CD-ROM) (1) Quick Reference Manual (1) Safety Regulations (1) Security Label (1) Warranty Card (1)

Optional Accessories

LMP-C200 Projector Lamp (for replacement)

Specifications

Optical

Projection system 3 LCD panels, 1 lens projection system LCD panel 0.79-inch XGA panel, 2,359,296 (1024 x 768 x 3) pixels

Projection Iens

1.2 times zoom lens, f23.5 to 28.2 mm, F1.75 to 2.17

Lamp

200W ultra high pressure Lamp

Screen coverage

40 to 300 inches (measured diagonally)

Keystone correction range Vertical: +/- 25° (max.)

Light output

2700 lumens (lamp mode high), 1900 lumens (lamp mode standard)

Signals

Color system

NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60 (automatically/ manually selected)

Resolution

Video: 750 TV lines. RGB: 1024 x 768 pixels Acceptable computer signals fH: 19 to 92KHz, fV: 48 to 92Hz (Up to SXGA+ (fV 60Hz))

Acceptable video signals

15khz RGB 50/60Hz, Component 50/60Hz, Progressive Component 50/60Hz, DTV (480/60i, 575/50i, 480/60p, 575/50p, 720/60p, 720/50p, 1080/60i, 1080/50i), Composite Video, Y/C Video

Speaker

Mono 1 W (max.) x1

General

Dimensions (W x H x D) 372 x 90 x 298 mm.

(14 3/4 x 3 5/8 x 11 3/4 inches)

Mass

Approx. 4.1 kg (9 lbs 1 oz)

Power requirements

AC 100 to 240 V, 2.9 - 1.2 A, 50/60 Hz

Power consumption

Max. 285 W, Standby 7 W, Standby (low) 0.5 W

Heat dissipation

973 BTU

Operating temperature

0 to 35 °C (32 to 95 °F)

Operating humidity

35 to 85% (no condensation)

Storage temperature

-20 to 60 °C (-4 to 140 °F)

Storage humidity

10 to 90%

Inputs/Outputs

VIDEO IN

Video

Composite Video (RCA phono jack)

Y/C Mini DIN 4-pin

Audio

Stereo mini jack

INPUT A

Analog RGB / Component HD D-sub 15-pin (female)

Stereo mini jack

INPUT B

Analog RGB

HD D-sub 15-pin (female)

Audio

Stereo mini jack

OLITPLIT

Monitor out HD D-sub 15pin

Audio

Stereo mini jack (variable out)

Data Projectors

VPL-CX120 Data Projector



Features

·High picture quality (XGA resolution) and bright images (3000 lumens) •3LCD projection system •Multiple interfaces for flexible configurations •Easy lamp replacement and filter cleaning (minimal maintenance) · Vertical digital keystone correction · Quiet and efficient operation •High security (control panel key lock, password authentication system, security bar, and Kensington lock) • Compact Card-Type remote commander unit •Digital zoom function (up to 4x) •Image freeze function •Smart APA (auto pixel alignment) •Multi language OSD •Ceiling mount design* •Direct power On/Off •Picture/Audio muting •Low power consumption (0.5 w standby power)



Supplied Accessories

Remote Commander Unit (Card type) (1) Lithium battery CR2025 (2) Lens cap (1) HD D-sub 15-pin cable (2m) (1) AC Power Cord (1) Operating Instructions and Application Software (CD-ROM) (1) Quick Reference Manual (1) Safety Regulations (1) Security Label (1) Warranty Card (1)

Optional Accessories

LMP-C200 Projector Lamp (for replacement)

Specifications

Optical

Projection system 3 LCD panels, 1 lens projection system LCD panel 0.79-inch XGA panel, 2,359,296 (1024 x 768 x 3) pixels

Projection lens

1.2 times zoom lens, f23.5 to 28.2 mm, F1.75 to 2.17

Lamp

200W ultra high pressure Lamp

Screen coverage

40 to 300 inches (measured diagonally)

Keystone correction range Vertical: +/- 25° (max.)

Light output

3000 lumens (lamp mode high), 2200 lumens (lamp mode standard)

Signals

Color system

NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60 (automatically/ manually selected)

Resolution

Video: 750 TV lines. RGB: 1024 x 768 pixels Acceptable computer signals fH: 19 to 92KHz, fV: 48 to 92Hz (Up to SXGA+ (fV 60Hz))

Acceptable video signals

15khz RGB 50/60Hz, Component 50/60Hz, Progressive Component 50/60Hz, DTV (480/60i, 575/50i, 480/60p, 575/50p, 720/60p, 720/50p, 1080/60i, 1080/50i), Composite Video, Y/C Video

Speaker

Mono 1 W (max.) x1

General

Dimensions (W x H x D) 372 x 90 x 298 mm. (14 3/4 x 3 5/8 x 11 3/4 inches)

Mass

Approx. 4.1 kg (9 lbs 1 oz) Power requirements n

AC 100 to 240 V, 2.9 - 1.2 A, 50/60 Hz

Power consumption Max. 285 W, Standby 7 W,

Standby (low) 0.5 W

Heat dissipation

973 BTU

Operating temperature

0 to 35 °C (32 to 95 °F)

Operating humidity

35 to 85% (no condensation)

Storage temperature

-20 to 60 °C (-4 to 140 °F)

Storage humidity 10 to 90%

Inputs/Outputs VIDEO IN

Video

Composite Video (RCA phono jack)

Y/C Mini DIN 4-pin

Audio

Stereo mini jack

INPUT A

Analog RGB / Component HD D-sub 15-pin (female)

Stereo mini jack

INPUT B

Analog RGB

HD D-sub 15-pin (female)

Audio

Stereo mini jack

OLITPLIT

Monitor out HD D-sub 15pin

Audio

Stereo mini jack (variable out)

VPL-CX150 Data Projector



The VPL-CX150 is a compact and stylish projector ideal for use in both classrooms and conference rooms. This projector is capable of projecting high-quality images in XGA resolution with a brightness of 3500 lumens.

Features

•High Picture Quality and Bright Images •3LCD
Projection System •Multiple Interfaces for Flexible
Configurations •Easy Lamp Replacement and Filter
Cleaning (Minimal Maintenance) •Vertical digital keystone
correction •Quiet and Efficient Operation •High Security
(Control Panel Key Lock, Password Authentication
System, Security Bar, and Kensington Lock) •MultiFunction Remote Commander Unit
•Digital Zoom Function (up to 4x) •Image Freeze

•Digital Zoom Function (up to 4x) •Image Freeze Function •Smart APA (Auto Pixel Alignment) •Multi Language OSD •Ceiling Mount Design* •Direct Power On/Off •Picture/Audio Muting •Low Power Consumption (0.5 W standby power)

* Requires an optional ceiling mount kit. Please contact your local Sony sales office for details.



Supplied Accessories

Remote Commander Unit (Card type)
Lithium battery CR2025
Lens cap
HD D-sub 15-pin cable (2m)
AC Power Cord
Operating Instructions and Application
Software (CD-ROM)
Quick Reference Manual
Safety Regulations
Security Label
Warranty Card

Optional Accessories

LMP-C200 Projector Lamp (for replacement)

Specifications

Optical

Projection system

3 LCD panels, 1 lens projection system LCD panel

0.79-inch XGA panel, 2,359,296 (1024 x 768 x 3) pixels

Projection lens

1.2 times zoom lens, f23.5 to 28.2 mm,

F1.75 to 2.17

Lamp

200W ultra high pressure Lamp

Screen coverage

40 to 300 inches (measured diagonally)

Keystone correction range

Vertical: +/- 25° (max.)

Liaht output

3500 lumens (lamp mode high),

2500 lumens (lamp mode standard)

Signals

Color system

NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60 (automatically/

manually selected)

Resolution

Video: 750 TV lines,

RGB: 1024 x 768 pixels

Acceptable computer signals

fH: 19 to 92KHz, fV: 48 to 92Hz (Up to

SXGA+ (fV 60Hz))

Acceptable video signals

15k RGB 50/60Hz, Component 50/60Hz, Progressive Component, DTV (480/60i,

575/50i, 480/60p, 575/50p, 720/60p,

720/50p, 1080/60i, 1080/50i), Composite

Video, Y/C Video

Speaker

Mono 1 W (max.) x1

General

Dimensions (W x H x D)

372 x 90 x 298 mm,

(14 3/4 x 3 5/8 x 11 3/4 inches)

Mass

Approx. 4.1 kg (9 lbs 1 oz)

Power requirements

AC 100 to 240 V, 2.9 - 1.2 A, 50/60 Hz

Power consumption

Max. 285 W, Standby 7 W,

Standby (low) 0.5 W

Heat dissipation 973 BTU

Operating temperature

0 to 35 °C (32 to 95 °F)

Operating humidity

35 to 85% (no condensation)

35 to 85% (no cor Storage temperature

-20 to 60 °C (-4 to 140 °F)

Storage humidity

10 to 90%

Inputs/Outputs

VIDEO IN

Video

Composite Video (RCA phono jack)

S Video

Y/C Mini DIN 4-pin

Audio

Stereo mini jack

INPUT A

Analog RGB / Component

HD D-sub 15-pin (female)

Audio

Stereo mini jack

INPUT B

Analog RGB

HD D-sub 15-pin (female)

Audio

Stereo mini jack

OUTPUT

Monitor out

HD D-sub 15pin

Audio

Stereo mini jack (variable out)

REMOTE

Data Projectors

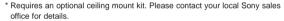
VPL-CX125 Data Projector



The VPL-CX125 is a compact and stylish projector ideal for use in both classrooms and conference rooms. This projector is capable of projecting high-quality images in native XGA (1024 x 768) resolution with a brightness of 3000 lumens.

Features

•High Picture Quality and Bright Images •3LCD Projection System • Multiple Interfaces for Flexible Configurations • Easy Lamp Replacement and Filter Cleaning (Minimal Maintenance) •ID Function for Multi-Projector Installation •Vertical and Horizontal Digital Keystone Correction • Maintenance via Network • Quiet and Efficient Operation •High Security (Control Panel Key Lock, Password Authentication System, Security Bar, and Kensington Lock) • Multi-Function Remote Commander Unit •Network Presentations •High-speed Image Transfer over IP Networks •Network Presentations Using up To Five Projectors •Network Presentations Almost Anywhere •Digital Zoom Function (up to 4x) •Image Freeze Function •Smart APA (Auto Pixel Alignment) •Multi Language OSD •Ceiling Mount Design* •Direct Power On/Off •Picture/Audio Muting •Low Power Consumption (0.5 W standby power)





Remote Commander Unit (1)

Size AA (R6) batteries (2)

Lens cap (1)

HD D-sub 15-pin cable (2m) (1)

AC Power Cord (1)

Operating Instructions and Application

Software (CD-ROM) (1)

Quick Reference Manual (1)

Safety Regulations (1)

Security Label (1)

Warranty Card (1)

Optional Accessories

Optional Accessories

LMP-C200 Projector Lamp (for replacement)

Specifications

Optical

Projection system

3 LCD panels, 1 lens projection system

LCD panel

0.79-inch XGA panel, 2,359,296

(1024 x 768 x 3) pixels

Projection lens

1.2 times zoom lens, f23.5 to 28.2 mm,

F1.75 to 2.17

Lam

200W ultra high pressure Lamp

Screen coverage

40 to 300 inches (measured diagonally)

Keystone correction range

Vertical: +/- 25° (max.),

Horizontal: +/- 15°(max.)

Light output

3000 lumens (lamp mode high),

2200 lumens (lamp mode standard)

Signals

Color system

NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60 (automatically/

manually selected)

Resolution

Video: 750 TV lines,

RGB: 1024 x 768 pixels

Acceptable computer signals

 $fH:19\ to\ 92KHz,\ fV:48\ to\ 92Hz$

(Up to SXGA+ (fV 60Hz))

Acceptable video signals

15khz RGB 50/60Hz, Component 50/60Hz, Progressive Component 50/60Hz,

DTV (480/60i, 575/50i, 480/60p, 575/50p, 720/60p, 720/50p, 1080/60i, 1080/50i),

Composite Video, Y/C Video

Speaker

Mono 1 W (max.) x1

General

General

Dimensions (W x H x D) 372 x 90 x 298 mm,

(14 3/4 x 3 5/8 x 11 3/4 inches)

Mass

Approx. 4.1 kg (9 lbs 1 oz)

Power requirements

AC 100 to 240 V, 2.9 - 1.2 A, 50/60 Hz

Power consumption Max. 285 W, Standby 7 W,

Standby (low) 0.5 W

Heat dissipation

973 BTU

Operating temperature

0 to 35 °C (32 to 95 °F)

Operating humidity

35 to 85% (no condensation)

Storage temperature

-20 to 60 °C (-4 to 140 °F)

Storage humidity

10 to 90%

Inputs/Outputs

VIDEO IN

Video

Composite Video (RCA phono jack)

S Video

Y/C Mini DIN 4-pin

Audio

Stereo mini jack

INPUT A

Analog RGB / Component

HD D-sub 15-pin (female)

Audio

Stereo mini jack

INPUT B

Analog RGB

HD D-sub 15-pin (female)

Audio

Stereo mini jack

INPUT C

Network

RJ45: 100BASE-TX/10BASE-T

OUTPUT

Monitor out

HD D-sub 15pin

Audio

Stereo mini jack (variable out)

REMOTE

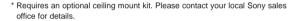
VPL-CX155 Data Projector



The VPL-CX155 is a compact and stylish projector ideal for use in both classrooms and conference rooms. This projector is capable of projecting high-quality images in XGA resolution with a brightness of 3500 lumens and NetWork Presentation capability.

Features

•High Picture Quality and Bright Images •3LCD Projection System • Multiple Interfaces for Flexible Configurations • Easy Lamp Replacement and Filter Cleaning (Minimal Maintenance) •ID Function for Multi-Projector Installation •Vertical and Horizontal Digital Keystone Correction • Maintenance via Network Quiet and Efficient Operation •High Security (Control Panel Key Lock, Password Authentication System, Security Bar, and Kensington Lock) • Multi-Function Remote Commander Unit •Network Presentations High-speed Image Transfer over IP Networks
 Network Presentations Using up To Five Projectors •Network Presentations Almost Anywhere • Digital Zoom Function (up to 4x) •Image Freeze Function •Smart APA (Auto Pixel Alignment) • Multi Language OSD • Ceiling Mount Design* • Direct Power On/Off • Picture/Audio Muting •Low Power Consumption (0.5 W standby power)





Supplied Accessories

Remote Commander Unit Size AA (R6) batteries Lens cap HD D-sub 15-pin cable (2m) AC Power Cord Operating Instructions and Application Software (CD-ROM)

Quick Reference Manual Safety Regulations Security Label

Optional Accessories

LMP-C200 Projector Lamp (for replacement)

Specifications

Warranty Card

Optical

Projection system

3 LCD panels, 1 lens projection system CD panel

0.79-inch XGA panel,

2,359,296 (1024 x 768 x 3) pixels

Projection len

1.2 times zoom lens, f23.5 to 28.2 mm,

1.2 times zoo F1.75 to 2.17

Lamp

200W ultra high pressure Lamp

Screen coverage

40 to 300 inches (measured diagonally)

Keystone correction range

Vertical: +/- 25° (max.),

Horizontal: +/- 15° (max.)

Light output

3500 lumens (lamp mode high), 2500 lumens (lamp mode standard)

Signals

Color system

NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60 (automatically/

manually selected)

Resolution

Video: 750 TV lines,

RGB: 1024 x 768 pixels

Acceptable computer signals

fH: 19 to 92KHz, fV: 48 to 92Hz

(Up to SXGA+ (fV 60Hz))

Acceptable video signals

15k RGB 50/60Hz, Component 50/60Hz, Progressive Component, DTV (480/60i,

575/50i, 480/60p, 575/50p, 720/60p,

75/501, 480/60p, 575/50p, 720/60p,

720/50p, 1080/60i, 1080/50i), Composite

Video, Y/C Video

Speaker

Mono 1 W (max.) x1

General

Dimensions (W x H x D)

372 x 90 x 298 mm,

(14 3/4 x 3 5/8 x 11 3/4 inches)

Mass

Approx. 4.1 kg (9 lbs 1 oz)

Power requirements

AC 100 to 240 V. 2.9 - 1.2 A. 50/60 Hz

Power consumption

Max. 285 W, Standby 7 W,

Standby (low) 0.5 W

Heat dissipation

973 BTU

Operating temperature

0 to 35 °C (32 to 95 °F)

Operating humidity

35 to 85% (no condensation)

Storage temperature

-20 to 60 °C (-4 to 140 °F)

Storage humidity

10 to 90%

Inputs/Outputs

VIDEO IN

Video

Composite Video (RCA phono jack)

S Video

Y/C Mini DIN 4-pin

Audio

Stereo mini jack

INPUT A

Analog RGB / Component

HD D-sub 15-pin (female)

Audio

Stereo mini jack

INPUT B

Analog RGB

HD D-sub 15-pin (female)

Audio

Stereo mini jack

INPUT C

Network

RJ45: 100BASE-TX/10BASE-T

OUTPUT

Monitor out

HD D-sub 15pin

Audio

Stereo mini jack (variable out)

REMOTE

VPL-CW125 Data Projector



Features

·High picture quality (WXGA resolution) and bright images (3000 lumens) •3LCD projection system

•Multiple interfaces for flexible configurations •Easy lamp replacement and filter cleaning (minimal maintenance)

•ID function for Multi-Projector installation •Vertical and horizontal digital keystone correction •Maintenance via network •Quiet and efficient operation •High security (control panel key lock, password authentication system, security bar, and Kensington lock) • Multi-Function remote commander unit •Network presentations •High-speed image transfer over IP networks •Network presentations using up to five projectors •Network presentations almost anywhere using a remote PC • Digital zoom function (up to 4x) •Image freeze function •Smart APA (auto pixel alignment) •Multi language OSD •Ceiling mount design •Direct power On/Off •Picture/Audio muting •Low power consumption (0.5 w standby power)



Supplied Accessories

Remote Commander Unit (1) Size AA (R6) batteries Lens cap (1) HD D-sub 15-pin cable (2m) (1) AC Power Cord (1) Operating Instructions and Application Software (CD-ROM) (1) Quick Reference Manual (1) Safety Regulations (1) Security Label (1)

Optional Accessories

LMP-C200 Projector Lamp (for replacement)

Specifications

Warranty Card (1)

Optical

Projection system

3 LCD panels, 1 lens projection system LCD panel

0.74-inch WXGA panel, 3,278,400 (1366 x 800 x 3) pixels

Projection lens

1.2 times zoom lens, f23.5 to 28.2 mm,

F1.75 to 2.17

200W ultra high pressure Lamp

Screen coverage

40 to 300 inches (measured diagonally)

Keystone correction range

Vertical: +/- 22° (max.),

Horizontal: +/- 16° (max.)

3000 lumens (lamp mode high), 2200 lumens (lamp mode standard)

Signals

Color system

NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60 (automatically/ manually selected)

Resolution

Video: 750 TV lines, RGB: 1366 x 800 pixels Acceptable computer signals fH: 19 to 92KHz, fV: 48 to 92Hz

(Up to SXGA+ (fV 60Hz))

Acceptable video signals

15khz RGB 50/60Hz, Component 50/60Hz, Progressive Component 50/60Hz, DTV (480/60i, 575/50i, 480/60p, 575/50p, 720/60p, 720/50p, 1080/60i, 1080/50i), Composite Video, Y/C Video

Speaker

Mono 1 W (max.) x1

General

Dimensions (W x H x D) 372 x 90 x 298 mm.

(14 3/4 x 3 5/8 x 11 3/4 inches)

Mass

Approx. 4.1 kg (9 lbs 1 oz)

Power requirements

AC 100 to 240 V, 2.9 - 1.2 A, 50/60 Hz

Power consumption

Max. 287 W, Standby 7 W,

Standby (low) 0.5 W

Heat dissipation

979 BTU

Operating temperature

0 to 35 °C (32 to 95 °F)

Operating humidity

35 to 85% (no condensation)

Storage temperature

-20 to 60 °C (-4 to 140 °F)

Storage humidity

10 to 90%

Inputs/Outputs

VIDEO IN

Video

Composite Video (RCA phono jack)

S Video

Y/C Mini DIN 4-pin

Audio

Stereo mini jack

INPUT A

Analog RGB / Component

HD D-sub 15-pin (female)

Audio

Stereo mini jack

INPUT B

Analog RGB

HD D-sub 15-pin (female)

Audio

Stereo mini jack

INPLIT C

Network

RJ45: 100BASE-TX/10BASE-T

OUTPUT

Monitor out

HD D-sub 15pin

Audio

Stereo mini jack (variable out)

VPL-FX52/L Bright XGA Data Projector



The VPL-FX52 delivers a high brightness of 6000 ANSI lumens in a stylish and sophisticated design. Its outstanding functionality includes the ability to project high quality images, networking capability and installation flexibility, making it ideal for almost any large conference room or auditorium. The VPL-FX52L has three optional lenses for long, short and rear projection applications.

•Dynamic Detail Enhancer (DDE) for high quality video images •Lens Shift •90° tilt function •Brightness in ANSI Lumens: 6000 • Contrast Ratio: 1000:1 • Projection System: 3 LCD panels 1 lens system • Panel Size: 1.3 inch •Native resolution: XGA 1024x768x3 •Max. Input Signal Resolution: UXGA 1600x1200 •Fan Noise: 35dB •Screen Size (diagonally): 40 - 300 inch / 102 - 762 cm



Supplied Accessories

Remote Control (RM-PJM17) Battery Remote (2xR6 AA) Replacement Air Filter

Optional Accessories (VPL-FX52L)

3 lenses for long, short and rear projection applications

D sub 15-pin (Input A)

Inputs

Composite Video (1) S-Video (1) Component Video (via 5BNC) DVI-D (Input B) RS-232C (1) CTRL S (1) 5BNC (Input C) Ether (RJ-45) Trigger Out (1) 12 V (Output) Monitor Out

Specifications

Brightness in ANSI Lumens 6000 Contrast Ratio 1,000:1 Projection System 3 LCD panels 1 lens system LCD Panel Size 1.3 inch Native Resolution XGA 1024x768x3 Max. Input Signal Resolution UXGA 1600x1200 Standard zoom (VPL-FX52) 1.3 times (Powered) Optional (VPL-FX52/L)

VPLL-FM21/ ZM31/ZM101

Fan Noise

35dB

Keystone Correction Vertical +/- 20° Horizontal

No Lamp Type

> 300W UHP Life in hours 2500 Replacement

LMP-F300

Screen Size (diagonally) 40 - 300 inch

102 - 762 cm Throwing Distance 80"/2m screen 3.06 - 3.74m 100"/2.5m screen 3.85 - 4.7m

Ceiling Mount Bracket (optional accy)

PSS-620 Speaker Nο HD ready

Accept HD Signal Scan to XGA

Filter Cleaning Time (Hours)

Off & Go Yes Direct On/Off Yes

Power Consumption

Max: 400W Standby: 7W

Colour White & Silver

Dimensions (WxHxD) in mm 420x169x502 (VPL-FX52) 420x169x464 (VPL-FX52L)

> 10.5kg (VPL-FX52) 9.1kg (VPL-FX52L)

Data Projectors

VPL-FX40/L XGA Network Projector



BrightEra.

Delivering an extremely bright 4000 ANSI lumens in a slick sophisticated body, the VPL-FX40 is an excellent projector for high-impact multimedia presentations. For applications ranging from business conferences and seminars to education, in locations such as boardrooms, large conference rooms, R&D facilities, and university classrooms, this projector will captivate audiences with breathtaking image quality.

The VPL-FX40 and VPL-FE40 installation projectors are the first in our new line up to incorporate our new BrightEra™ inorganic alignment layer 0.79" LCD panels. The VPL-FX40L has three optional lenses.



Features

• Dynamic Detail Enhancer (DDE) for high quality video images •Lens Shift •90° tilt function •Brightness in ANSI Lumens: 4000 •Contrast Ratio: 700:1 •Projection System: 3 inorganic LCD panels 1 lens system •Panel Size: 0.79 inch •Native resolution: XGA 1024x768 •Max. Input Signal Resolution: 1024 x 768 x 3 •Fan Noise: 28dB •Screen Size (diagonally): 40 - 600 inch (for VPL-FX40L, screen coverage is 40-600 inches with VPLL-Z1024 or VPLL-Z1032/ 60-300 inches with VPLL-1008)

Audio

INPUT D

Stereo mini jack



Supplied Accessories

Remote Commander Unit (x1) AA batteries (x2) Operating instructions and application software (x1) Quick reference manual (x1) Warranty card (x1)

Optional Accessories

Replacement lamp (LMP-F270) Ceiling Bracket (PSS-610NL) Ziris Light management software

Optional lenses for VPL-FX40L

VPLL-1008 Fixed lens VPLL-Z1024 Zoom lens VPLL-Z1032 Zoom lens

Inputs VIDEO IN Video Composite Video (RCA phono jack) S Video Y/C Mini DIN 4-pin Audio Stereo (RCA phono jack) Analogue RGB HD D-sub 15-pin (female) Stereo mini jack INPLIT B Analogue RGB

HD D-sub 15-pin (female)

Stereo mini jack

BNC x5

Analogue RGB/component

Audio

INPUT C

Digital RGB/Audio Digital RGB/Y CB (PB) CR (PR): HDMI (HDCP) INPUT E Network RJ45: 100Base-TX/10Base-T OUTPUT Monitor out Analogue RGB: HD D-sub 15pin Stereo mini jack (variable out) REMOTE RS-232C D-sub 9 pin (female) Control S IN Stereo mini jack (plug-in-power) **Key Specifications** Native Resolution XGA (1024x 768) Max Signal Input Resolution 1024 x 768 x 3 Panel Type 0.79" TFT LCD x 3 Projection System 3 Inorganic LCD panels, 1 lens system Brightness 4000 ANSI lumen Contrast Ratio 700:1 Fan Noise 28dB Weight Approx 9.8 kg (Approx. 9.0 kg for VPL-FX40L)

General Standard Lens 1.3 times powered zoom lens* Vertical Keystone Correction ± 30° Vertical and Horizontal Shift V Shift 0 - 1/2V / H Shift 1/10 H Lamp Type 275W Ultra High Pressure Lamp Life (Replacement time) 2500 H Max Power Consumption Standby Power Consumption 15W (Standby mode: Standard / 0.5W (low))

Throwing Distance (Standard Lens)

Min - Max Screen Size (diagonally) 40 - 600 inch* 40-inch / 1m screen 1.48 - 1.9m 80-inch / 2m screen 3.03 - 3.86m 100-inch / 2.5m screen 3.81 - 4.84m 150-inch / 3.8m screen 5.74 - 7.29m 200-inch / 5.1m screen 7 68 - 9 74m 300-inch / 7.6m screen 11.55 - 14.64m 600-inch / 15.2m screen 23.16 - 29.35m

- * Not supplied with the VPL-FX40L.
- ** For VPL-FX40L, screen coverage is 40-600 inches with VPLL-Z1024 or VPLL-Z1032 / 60-300 inches with VPLL-1008.

Dimensions (W x H x D)

532 x 145 x 352 mm

VPL-FE40/L SXGA+ Data Projector



BrightEra.

Delivering an extremely bright 4000 ANSI lumens in a slick sophisticated body, the VPL-FE40 is an excellent projector for high-impact multimedia presentations. For applications ranging from business conferences and seminars to education, in locations such as boardrooms, large conference rooms, R&D facilities, and university classrooms, this projector will captivate audiences with breathtaking image quality.

The VPL-FX40 and VPL-FE40 installation projectors are the first in our new line up to incorporate our new BrightEra™ inorganic alignment layer 0.79" LCD panels. The VPL-FE40L has three optional lenses.



Features

• Dynamic Detail Enhancer (DDE) for high quality video images •Lens Shift •90° tilt function •Brightness in ANSI Lumens: 4000 •Contrast Ratio: 700:1 •Projection System: 3 inorganic LCD panels 1 lens system •Panel Size: 0.79 inch •Native resolution: SXGA+ 1400 x 1050 •Max. Input Signal Resolution: 1400 x 1050 x 3 •Fan Noise: 35dB •Screen Size (diagonally): 40 - 600 inch (for VPL-FE40L, screen coverage is 40-600 inches with VPLL-Z1024 or VPLL-Z1032/ 60-300 inches with VPLL-1008)



Supplied Accessories

Remote Commander Unit (x1) AA batteries (x2) Operating instructions and application software (x1) Quick reference manual (x1) Warranty card (x1)

Optional Accessories

Replacement lamp (LMP-F270) Ceiling Bracket (PSS-610NL) Ziris Light management software

Optional lenses for VPL-FE40L

VPLL-1008 Fixed lens VPLL-Z1024 Zoom lens VPLL-Z1032 Zoom lens

Inputs

VIDEO IN Video Composite Video (RCA phono jack) S Video Y/C Mini DIN 4-pin Audio Stereo (RCA phono jack) INPUT A Analogue RGB HD D-sub 15-pin (female) Audio Stereo mini jack INPLIT B Analogue RGB

HD D-sub 15-pin (female) Audio Stereo mini jack INPUT C Analogue RGB/component

Audio Stereo mini jack INPUT D Digital RGB/Audio Digital RGB/Y CB (PB) CR (PR): HDMI (HDCP) INPUT E Network RJ45: 100Base-TX/10Base-T OUTPUT Monitor out Analogue RGB: HD D-sub 15pin Stereo mini jack (variable out) D-sub 9 pin (female)

Dimensions (W x H x D)

532 x 145 x 352 mm

REMOTE RS-232C Control S IN Stereo mini jack (plug-in-power) **Key Specifications** Native Resolution SXGA+ (1400 x 1050) Max Signal Input Resolution 1400 x 1050 x 3 Panel Type 0.79" TFT LCD x 3 Projection System 3 Inorganic LCD panels, 1 lens system Brightness 4000 ANSI lumen Contrast Ratio 700:1 Fan Noise 35dB Weight Approx 9.8 kg (Approx. 9.0 kg for VPL-FE40L)

General

Standard Lens 1.3 times powered zoom lens* Vertical Keystone Correction ± 30° Vertical and Horizontal Shift V Shift 0 - 1/2V / H Shift 1/10 H Lamp Type 275W Ultra High Pressure Lamp Life (Replacement time) 2500 H Max Power Consumption Standby Power Consumption 15W (Standby mode: Standard / 0.5W (low)) **Throwing Distance (Standard Lens)**

Min - Max Screen Size (diagonally) 40 - 600 inch** 40-inch / 1m screen 1.48 - 1.9m 80-inch / 2m screen 3.03 - 3.86m 100-inch / 2.5m screen 3 81 - 4 84m 150-inch / 3.8m screen 5.74 - 7.29m 200-inch / 5.1m screen 7.68 - 9.74m 300-inch / 7.6m screen 11 55 - 14 64m 600-inch / 15.2m screen 23.16 - 29.35m

* Not supplied with the VPL-FE40L.

** For VPL-FE40L, screen coverage is 40-600 inches with VPLL-Z1024 or VPLL-Z1032 / 60-300 inches with VPLL-1008.

VPL-VW50

1080





Full HD 3 SXRD™ Home Theatre Projector

1080 Full HD 3 SXRD™ high picture performance projector with two HDMI inputs.

Features

•3 Sony SXRD™ Panels; 6.22 million pixels with narrow inter-pixel spacing of 0.35µm to deliver film quality smoothness •200W UHP lamp •ARC-F (All Range Crisp Focus) Lens designed specifically to optimise the full HD SXRD™ panel. Motorised lens zoom range of 1.8 times •Advanced Iris 2 (Settings: Auto1, Auto2, Manual, Off) •Contrast Ratio: 15,000:1 (Auto) 6,000:1 (On) 3,000:1 (Off) •Brightness in ANSI Lumens: 900 •Projection System: 3 SXRD™ panels 1 lens system •Panel Panel Size: 0.61 inch

•Native resolution: Full HD 1920x1080x3 •Max. Input Signal Resolution: Full HD •Two HDMI™ inputs

•Accepts 1080/24p input signals •Low Fan Noise: 22dB

•Screen Size (diagonally): 40 - 300 inch / 102 - 762 cm





Supplied Accessories

Remote Control (RM-PJVW50) Battery Remote (2xR6 AA) Replacement Air Filter (Air Filter Cover) Image Director 2 Software CD-ROM

Optional Accessories

Replacement Lamp (LMP-H200) Matching Ceiling Mount Bracket (PSS-H10)

Inputs

D sub 15-pin (Input A) Analogue RGB/Component Composite Video (1) S-Video (1) Component Video (1) HDMI (2) RS-232C (1) Trigger Output (1) 12 V

Specifications

Specifications
Technology
SXRD
Brightness in ANSI Lumens
900
Contrast Ratio
3,000 - 15,000:1
Projection System
3 SXRD panels
1 lens system
SXRD Panel Size
0.61 inch
Native Resolution
Full HD 1920x1080x3
Max. Input Signal Resolution
Full HD

Standard zoom 1.8 times (Powered)

Optional No

Lens

Fan Noise 22dB Keystone Correction Vertical Lens Shift 65% & Vertical Keystone Horizontal Lens Shift 6.7% (manual fine adjustment) Replacement lamp LMP-H200 200W UHP Recommended exchange 3000 hours Screen Size (diagonally) 40 - 300 inch 102 - 762 cm Throwing Distance 80"/2m screen 2.5 - 4.3m 100"/2.5m screen 3.1 - 5.3m Ceiling Mount Bracket (optional accy) PSS-H10 Speaker No HD ready

Max: 300W Standby: 8W (eco 0.5W) Colour Glossy White Dimensions (WxHxD) in mm 395 x 173.5 x 471.4 Weight 11kg

457

Filter Cleaning Time (Hours)

Power Consumption

Yes

1500

VPL-VW60

Full HD 3 SXRD™ Home Theatre Projector

EISA Award winning 1080p Full HD 3 SXRD™ Home Theatre Projector with massive contrast ratios of up to 35.000:1.

Features

•New 3 Sony SXRD™ Panels; 6.22 million pixels with narrow inter-pixel spacing of 0.35 µm to deliver film quality smoothness •BRAVIA ENGINE picture processing •BRAVIA Theatre Sync. •200W UHP lamp •ARC-F (All Range Crisp Focus) Lens designed specifically to optimise the full HD SXRD™ panel. Motorised lens zoom range of 1.8 times •Advanced Iris 2 (Settings: Auto1, Auto2, Manual, Off) • Contrast Ratio: 35.000:1 (Auto) 7.000:1 (Off) •Brightness in ANSI Lumens: 1000

- Projection System: 3 SXRD™ panels 1 lens system
- •Panel Panel Size: 0.61 inch •Native resolution: Full HD 1920x1080x3 •Max. Input Signal Resolution: Full HD
- •Two HDMI™ inputs •Accepts 1080/24p input signals
- •Full Screen Panel Alignment •Low Fan Noise: 22dB
- •Screen Size (diagonally): 40 300 inch / 102 762 cm.







Supplied Accessories

Remote Control (RM-PJVW60) Battery Remote (2xR6 AA) Replacement Air Filter (Air Filter Cover) Image Director 3 Gamma Software CD-ROM

Optional Accessories

Replacement Lamp (LMP-H200) Matching Ceiling Mount Bracket (PSS-H10)

Inputs

D sub 15-pin (Input A) Analogue RGB/Component Composite Video (1) S-Video (1) Component Video (1) HDMI (2 CEC) RS-232C (1) Trigger Output (1) 12 V

Specifications

Technology SXRD Brightness in ANSI Lumens 1000 Contrast Ratio 7.000:1 - 35.000:1 Projection System 3 SXRD panels 1 lens system SXRD Panel Size 0.61 inch Native Resolution Full HD 1920x1080x3 Max. Input Signal Resolution

> Standard zoom 1.8 times (Powered) Optional No

Full HD

Lens

Fan Noise 22dB

Keystone Correction

Vertical

Lens Shift 65% & Vertical Keystone

Horizontal

Lens Shift 6.7% (manual fine adjustment)

Replacement lamp LMP-H200 200W UHP

Recommended exchange

3000 hours

Screen Size (diagonally)

40 - 300 inch 102 - 762 cm Throwing Distance 80"/2m screen

> 27 - 44m 100"/2.5m screen 3.3 - 5.5m

Ceiling Mount Bracket (optional accy)

PSS-H10 Speaker No HD ready

Yes

Filter Cleaning Time (Hours)

1500

Power Consumption Max: 300W

Standby: 8W (eco 0.5W)

Colour

Dynamic anthracite Dimensions (WxHxD) in mm

395 x 173.5 x 471.4

Weight 11kg



VPL-VW200

Full HD SXRD™ Home Theatre Projector

The VPL-VW200 combines features from three award winning products; VPL-VW60, VPL-VW100 and QUALIA 004 and takes it further. The renowned Sony SXRD™ technology in combination with a pure Xenon lamp and a Carl Zeiss Vario Tessar lens deliver outstanding picture quality, and an incredible contrast ratio of 35,000:1. On top of that it is the first Home Projector in the market featuring 100Hz High Frame Rate technology.



•New 3 Sony SXRD™ Panels; 6.22 million pixels with narrow inter-pixel spacing of 0.35µm to deliver film quality smoothness •Motionflow Dark Frame Insertion •BRAVIA ENGINE PRO picture processing •Pure Xenon lamp (400W) for more natural colour reproduction •x.v.Colour •Real Colour Processing •BRAVIA Theatre Sync. •Carl Zeiss Vario-Tessar lens F 2,5- 3,5/19-34 designed specifically to optimise the full HD SXRD™ panel. Motorised lens zoom range of 1.8 times •Advanced Iris 2 (Settings: Auto1, Auto2, Manual, Off) •Contrast ratio: 35.000:1 (Auto) 7.000:1 (Off) •Brightness in ANSI Lumens: 800 •Projection System: 3 SXRD™ panels 1 lens system •Panel Size: 0.61 inch •Native resolution: Full HD 1920x1080x3 •Accepts 1080/24p input signals via HDMI •Zone Panel Alignment •Low Fan Noise: 22dB

•Screen Size (diagonally): 40 - 300 inch / 102 - 762 cm











Supplied Accessories

Remote Control (RM-PJVW200) Battery Remote (2xR6 AA) Replacement Air Filter (Air Filter Cover) Image Director 3 Software CD-ROM

Optional Accessories

Replacement Lamp (LMP-H400) Matching Ceiling Mount Bracket (PSS-H10)

Inputs

D sub 15-pin (Input A) Analogue RGB/Component Composite Video (1) S-Video (1) Component Video (1) HDMI (2) (CEC) RS-232C (1) Ethernet (RJ-45) Trigger Output (1) 12 V

Specifications

Technology
SXRD
Brightness in ANSI Lumens
800
Contrast Ratio
7.000:1 - 35.000:1
Projection System
3 SXRD panels
1 lens system
SXRD Panel Size
0.61 inch

Native Resolution Full HD 1920x1080x3 Max. Input Signal Resolution Full HD 1080p Standard zoom 1.8 times (Powered) Optional No Fan Noise 22dB Keystone Correction Vertical Lens Shift 65% & Vertical Keystone Horizontal Lens Shift 6.7% (manual fine adjustment) Replacement lamp LMP-H400 Pure Xenon 400W Recommended exchange

Horizontal
Lens Shift 6.7% (manual fine adjute Replacement lamp
LMP-H400 Pure Xenon 400W
Recommended exchange
2500 hours
Screen Size (diagonally)
40 - 300 inch
102 - 762 cm
Throwing Distance
80°/2m screen
2.7 - 4.5m
100°/2.5m screen
3.4 - 5.6m
Ceiling Mount Bracket (optional accy)
PSS-H10

Speaker
No
HD ready
Yes
Filter Cleaning Time (Hours)
1500
Power Consumption
Max: 610W
Standby: 10W (eco 0.5W)
Colour
Midnight Blue
Dimensions (WxHxD) in mm
496x175x574
Weight
20kg

SONY

Large Venue Projectors

Large Venue Projectors

SRX-R110CE	462
SRX-R105CE	462
SRX-S110	463
CDV C10E	462

SRX-R110CE SRX-R105CF

SXRD 4K Projectors

Sony's large venue projectors, tailored with stunning features and picture performance to address the quality-critical demands of high definition video and high resolution images for fixed installations, events & staging, post production and digital cinema applications.

Features

•4K resolution 4096(V) x 2160(H) pixel image •Accepts a wide selection of input formats using supplied analogue input board and optional digital input boards . High contrast ratio of greater than 1800:1 • Selectable preset gamma curves for accurate colour reproduction •Multiple screen capability; 4096 x 2160 pixels image in single-mode, two HD 1920 x 1080 pixel images in dual-mode, four HD 1920 x 1080 pixel images in quad-mode •Dual lamp system operated in single and dual-lamp modes •PC-based control of set-up parameters, input configurations, colourimetry control and maintenance settings



LKRI-001 Analogue input board RM-PJ4K Simple remote controller unit PC set-up software CD-ROM (PC not supplied)

Optional Accessories

LKRL-90 Projection lens, x0.9 LKRL-Z115 Projection lens, 1.5-1.9 zoom LKRL-Z117 Projection lens, 1.7-1.9 zoom LKRL-Z119 Projection lens, 1.8-2.3 zoom LKRL-Z122 Projection lens, 2.2-4.0 zoom LKRL-Z140 Projection lens, 4.0-7.0 zoom LKRX-105 Xenon lamp for SRX-R105CE/SRX-S105 LKRX-110 Xenon lamp for SRX-R110CE/SRX-S110

LKRX-B105 Xenon lamp house for SRX-R105CE/SRX-S105 LKRX-B110 Xenon lamp house for SRX-R110CE/SRX-S110

LKRA-001 8-inch exhaust duct adaptor

NOTE: The projector does not come with the lamp houses When ordering a projector, 2 pcs of either LKRX-B105 or LKRX-B110 have to be ordered separately. Xenon lamp is included in a lamp house.

Optional Boards

LKRI-002 SDI and HD-SDI (4:2:2) input board LKRI-003 Dual-link HD-SDI input board LKRI-004 DVI-D input board

Specifications

SXRD Device

Display device

SXRD (Silicon X-tal Reflective Display)

Size

1.55" across diagonal

Resolution

4096(V) x 2160(H)

Reflectivity

Contrast ratio (as device)

4000:1





Optical

Projection system

3-SXRD panel, prism colour integrated system

2KW Xenon lamp x 2 for SRX-R110CE/SRX-S110 1KW Xenon lamp x 2 for SRX-R105CE/SRX-S105

Light output

10,000 ANSI lumens ± 10% for SRX-R110CE

5,000 ANSI lumens ± 10% for SRX-R105CE

Screen coverage

14 feet to 51 feet/4.5m to 15.5m measured horizontally

General

Contrast ratio (of projector)

>1800:1

Power requirements

AC 200 to 240V 50/60Hz

Power consumption

5.4KW for SRX-R110CE

3KW for SRX-R105CE

Dimensions (W x H x D)

Approx. 740 x 500 x 1320 mm

Mass

Approx. 110 Kg

Input Boards

LKRI-001 Analogue input board

BNC x 5 HD/SD input board

RGB/YCrCb selectable

LKRI-002 SDI and HD-SDI (4:2:2) input board

BNC x 2 (input x 1 and loop through out x 1)

HD-SDI (SMPTE-292M) and SDI (SMPTE-259M)

LKRI-003 Dual-link HD-SDI input board

BNC x 2 (input x 2, loop through out x 2)

HD-SDI single-link 4:2:2 SMPTE-292M

HD-SDI single-link 4:2:2 with 2048 support

Dual-link HD-SDI 4:4:4 RGB SMPTE-372M

Dual-link HD-SDI 4:4:4 RGB with 2048 support

LKRI-004 DVI-D input board

DVI 24-pin, male x2

DVI-D, AUX

SRX-S110 SXRD 4K Projectors SRX-S105

Sony's new, large venue projectors, tailored with stunning features and picture performance to address the critial demands of Visualisation, Simulation and Command & Control applications.

Features

•4K resolution 4096(V) x 2160(H) pixel image •Accepts a wide range of input formats using the standard DVI-D input and optional digital input boards •60P frame refresh •High contrast ratio of greater than 1800:1 •Selectable preset gamma curves for accurate colour reproduction •Multiple screen capability; 4096 x 2160 pixels image in single-mode, two HD 1920 x 1080 pixel images in dual-mode, four HD 1920 x 1080 pixel images in quad-mode •Dual lamp system operated in single and dual-lamp modes •PC-based control of set-up parameters, input configurations, colourimetry control and maintenance settings





Supplied Accessories

RM-PJ4K Simple remote controller unit PC set-up software CD-ROM (PC not supplied)

Optional Accessories

LKRL-90 Projection lens, x0.9 LKRL-Z115 Projection lens, 1.5-1.9 zoom LKRL-Z117 Projection lens, 1.7-1.9 zoom LKRL-Z119 Projection lens, 1.8-2.3 zoom LKRL-Z122 Projection lens, 2.2-4.0 zoom LKRL-Z140 Projection lens, 4.0-7.0 zoom

LKRX-105 Xenon lamp for SRX-R105CE/SRX-S105
LKRX-110 Xenon lamp for SRX-R110CE/SRX-S110

LKRX-B105 Xenon lamp house for SRX-R105CE/SRX-S105 LKRX-B110 Xenon lamp house for SRX-R110CE/SRX-S110

LKRA-001 8-inch exhaust duct adaptor

NOTE: The projector does not come with the lamp houses. When ordering a projector, 2 pcs of either LKRX-B105 or LKRX-B110 have to be ordered separately. Xenon lamp is included in a lamp house.

Optional Boards

LKRI-001 Analogue input board LKRI-002 SDI and HD-SDI (4:2:2) input board LKRI-003 Dual-link HD-SDI input board LKRI-004 DVI-D input board

Specifications

SXRD Device

Display device SXRD (Silicon X-tal Reflective Display)

1.55" across diagonal

Resolution

4096(V) x 2160(H)

Reflectivity

72% Contrast ratio (as device)

4000:1

Optical

Projection system

3-SXRD panel, prism colour integrated system

Lamp

2KW Xenon lamp x 2 for SRX-S110

1KW Xenon lamp x 2 for SRX-S105

Light output

10,000 ANSI lumens ± 10% for SRX-S110

5,000 ANSI lumens \pm 10% for SRX-S105

Screen coverage

14 feet to 51 feet/4.5m to 15.5m measured horizontally

General

Contrast ratio (of projector)

>1800:1

Power requirements

AC 200 to 240V 50/60Hz

Power consumption

5.4KW for SRX-S110

3KW for SRX-S105

Dimensions (W x H x D)

Approx. 740 x 500 x 1320 mm

Mass

Approx. 110 Kg

Input Boards

LKRI-001 Analogue input board BNC x 5 HD/SD input board

RGB/YCrCb selectable

LKRI-002 SDI and HD-SDI (4:2:2) input board

BNC x 2 (input x 1 and loop through out x 1)

HD-SDI (SMPTE-292M) and SDI (SMPTE-259M)

LKRI-003 Dual-link HD-SDI input board

BNC x 2 (input x 2, loop through out x 2)

HD-SDI single-link 4:2:2 SMPTE-292M

HD-SDI single-link 4:2:2 with 2048 support

Dual-link HD-SDI 4:4:4 RGB SMPTE-372M

Dual-link HD-SDI 4:4:4 RGB with 2048 support

LKRI-004 DVI-D input board

DVI 24-pin, male x2

DVI-D, AUX

SONY

Recording Media

Recording Media

PFD23A Disc	466
HDCAM SR tape	466
HDCAM tape	467
MPEG IMX tape	467
Digital Betacam tape	468
Digital Master™ tape for HDV	468
DVCAM tana	469

PFD23A Disc Professional Disc

Professional optical disc for XDCAM and XDCAM HD products.

Professional Disc.

Features

•Designed together with XDCAM decks for maximum system performance •Dual format SD/HD Recording •2.4x writing speed •Totally flexible 'Format Free' recording •High capacity Optical Disc - Up to 23.3 GB of storage •Quick random access saves time and improves reliability •Ultra fast data transfer (Write) •Outstanding picture quality across HD, MPEG IMX & DVCAM •Tough enough for extreme conditions





Applicable Models

XDCAM Camcorders: PDW-510P; PDW-530P.
XDCAM Compact Deck: PDW-1500
XDCAM Field Recorder: PDW-R1
XDCAM HD Camcorders: PDW-F330; PDW-F350L
XDCAM HD Decks: PDW-F30; PDW-F70; PDW-V1

· Advanced Hard Coat Technology.

Specifications

Storage Capacity: 23,3 GB Laser wavelength: 405 nl (blue-violet) Data Transfer Rate (writing): 72 Mb/s Disc diameter: 120mm (4 5/8 inches) Mass: 90 g (3 oz) Recording format: Phase Change Recording

XDCAM Recording

 Video Codec
 Compression

 SD (DVCAM)
 DV 4:1:1 (NTSC) / 4:2:0 (PAL)

 SD (MPEG IMX)
 MPEG-2 4:4:4 @ML

 HD (MPEG HD)
 MPEG-2 4:2:0 MP@HL

25 Mb/s 85 min 30, 40, 50 Mb/s 68, 57, and 45 minutes 35 (HQ), 25 (SP), 18 (LP) Mb/s 60, 90, 120 minutes

BCT-SR Series HDCAM SR Tape

HDCAM SR Tape Small / Large / Cleaning

Bit Rate



The most advanced metal particle tape in the whole broadcast family.

Features

•Equipped with the TeleFile™system to allow quick viewing and access to recordings •Ultrafine high-performance metal particles and new calendaring technology realise high output •Durability to withstand repeated playbacks and high C/N and edits.



Recording Time

Applicable Models

SRW-5000 SRW-5500 SRW-1

Specifications

 Model Playing time (min.)

 BCT-6SR
 6

 BCT-33SR
 33

 BCT-40SR
 40

 BCT-64SRL
 64

 BCT-94SRL
 94

 BCT-124SRL
 124

 BCT-HD12CL
 12

BCT-HD Series HDCAM Tape Small / Large / Cleaning



HDCAM has become a worldwide standard for production and exchange of high quality HD content.

Features

- •Designed for HDCAM VTRs •Using Advanced Metal Tape Technology (MP++) •Setting a new standard in high-density recording with ultra-fine magnetic particles
- •Developed for multi-generation operations (23.98PsF, 24PsF, 25PsF, 29.97PsF, and 50i, 59.94i interlaced)
- Outstanding archive potential using specially developed aluminia-silica protective layer •Distinctive HDCAM cassette design with bright orange antistatic lid.



Applicable Models	Specifications	
HDW-F900R	Model Playing time	(min.)
HDW-750PC	BCT-6HD	6
HDW-750P	BCT-12HD	12
HDW-730S	BCT-22HD	22
HDW-1800	BCT-32HD	32
HDW-D1800	BCT-40HD	40
HDW-2000	BCT-34HDL	34
HDW-D2000	BCT-64HDL	64
HDW-M2000P	BCT-94HDL	94
HDW-M2100P	BCT-124HDL	12
HDW-S280/1	BCT-HD12CL	12

BCT-MX Series MPEG IMX Tape Small / Large / Cleaning



The BCT-MX Series cassettes are intrinsically designed for reliability, durability and to support high-density recording. MPEG IMX uses open MPEG-2 compression at 30Mbps, 40Mbps and 50Mbps as advocated by the EBU/SMPTE.

Features

- •High picture quality (video NET: 50 Mbps) •New calendering system for smoother surface •Enhanced binder system improves particle adhesion by 30%
- Double recording time indication (525i/625i).



Applicable Models

Applicable Models	Specifications	
MSW-970P	Model Playing time (min.)	
MSW-M2000P/1	BCT-6MX	7
MSW-A2000P/1	BCT-12MX	14
MSW-2000	BCT-22MX	26
MSW-M2100P/1	BCT-32MX	38
	BCT-60MX	71
	BCT-64MXL	76
	BCT-94MXL	112
	BCT-124MXL	148
	BCT-184MXL	220
	BCT-HD12CL	12

Small / Large / Cleaning



Since its launch in 1994, the Digital Betacam format has become the worldwide standard for high quality SD broadcast production.

Features

- · Ultra-fine magnetic particles for high output
- High-performance binder increases output •Specially developed lubricant increases head contact and reduces headwear •Designed for long-term playback reliability
- ·Low-shrinkage for archival stability.



Applicable Models

J-30	Model Playing time	Model Playing time (min.)	
J-30/SDI	BCT-D6	6	
DVW-970P	BCT-D12	12	
DVW-M2000	BCT-D22	22	
DVW-M2000P	BCT-D32	32	
DVW-2000	BCT-D40	40	
DVW-2000P	BCT-D34L	34	
	BCT-D64L	64	
	BCT-D94L	94	
	BCT-D124L	12	
	BCT-D12CL	12	

PHDV Series Digital Master™ Media for HDV

Specifications

Digital Master...

Highly affordable and accessible, DigitalMaster™ Tape for HDV is the ideal first step into HD. If offers an easy migration path from DVCAM.

Features

- •The only Pro DV tape with two active magnetic layers
- Superior in quality to consumer DV and DVCAM™ tape with less dropout and error rate results •features the latest high density Advanced Metal Evaporated (AME-II) technology. •Specially developed lubricant increases head contact and reduces headwear.

Applicable Models

HVR-Z1E	HDV/DV Recording	(min)
HVR-A1E	PHDVM-63DM	63
HVR-V1E	PHDV-64DM	64
HVR-M15E	PHDV-124DM	124
HVR-M25E	PHDV-186DM	186
HVR-1500	PHDV-276DM	276
	PDVM-12CL	12
	PDV-12CI	12

DVCAM™ Recording (min)

Specifications

PHDVM-63DM	41
PHDV-64DM	42
PHDV-124DM	82
PHDV-186DM	124
PHDV-276DM	184
PDVM-12CL	12
PDV-12CI	12



PDV-ME / PDV-N

DVCAM Tape Mini and Standard



Delivering the superior image quality that DV compression affords, Sony DVCAM tape is ideal for both high-quality editing and for low-cost acquisition.

Features

•Advanced manufacturing techniques ensure Sony DVCAM tape shrinkage is half as much as with DV media •Advanced DLC layer for better durability and long term storage •Strong, Safe and Secure, DVCAM media is protected by a rugged professional hard case •Unbeatable Range of Media: with or without IC memory.



Applicable Models

DSR-400PK
DSR-400PL
DSR-450WSPL
DSR-250P/1
DSR-PD170P
DSR-2000AP
DSR-1800AP
DSR-1600AP
DSR-1500AP
DSR-45P
DSR-11
DSD 50D

Specifications

Specifications	
Model Playing time (min	.)
PDVM-12ME	12
PDVM-22ME	22
PDVM-32ME	32
PDVM-40ME	40
PDV-34ME	34
PDV-64ME	64
PDV-94ME	94
PDV-124ME	124
PDV-184ME	184
PDVM-12N	12
PDVM-22N	22
PDVM-32N	32
PDVM-40N	40
PDV-34N	34
PDV-64N	64
PDV-94N	94
PDV-124N	124
PDV-184N	184
PDVM-12CL	12
PDV-12CL	12

SONY

Cables

CCA-5 Cables 472
CCA-7 Cables 472
CCDC Cables
CCDC-A Cables 473
CCF Cables
CCFC-M100 Cable 473
CCFC-M100HG Cable 473
CCFD-L Cable 474
CCF-L Cable
CCMC-3MZ Cable 475
CCMC-9DS Cable 475
CCT Cables475
CCXC-12P Cables 476
CCXC-6P Cable 476
CCXC-9DB Cable476
CCXC-9DBS Cable 477
CCXC-9DD Cable 477
CCXC-T20 Cables 477
CCZ-A Cables478
RCC-5AA Cable478
RCC-G Cable479
RCC-R Cable480
/MC-IL44 Cables480
/MC-IL46 Cables481
/MC II 66 Cables 491

CCA-5 Cables 8-pin/8-pin Remote Control Cable

CCA-5-30/1 CCA-5-10 CCA-5-3

Features

•Remote control cable for 700 series control panels

Applicable Models

HDCU-1000/1500 Camera Control Unit CCU-790P/590P Camera Control Unit RCP-700/701/750/751 Remote Control Panels MSU-900/MSU-950 Master Setup Unit

Specifications

CCA-5-10: 10m (33ft) CCA-5-3: 3m (10ft) CCA-5-30/1 30m

CCA-7 Cables 10-pin/10-pin Cable

CCA-7-25 CCA-7-5 CCA-7-50

Features

•10-pin (male) / 10-pin (female) •RM-M7G / DXC-D35/300/327B series •RM-M7G / CCU-M7/M5 •RM-M7G / CA-325A/325B

Applicable Models

RCP-D50 Remote Control Panel (Joystick Type)
RCP-D51 Remote Control Panel (Dial Control Type)

Specifications

CCA-7-5: 5 m (16.5 ft) CCA-7-25: 25 m (82 ft) CCA-7-50: 50 m (165 ft) CCA-7-100: 100 m (330 ft)

CCDC Cables 12-pin/4-pin DC Cables

CCDC-10 CCDC-100 CCDC-25 CCDC-5 CCDC-50

Features

- •12-pin (female) <>4-pin (male)
- •DXC-390/990 Series <> CMA-D2

Applicable Models

DXC-390 3-CCD Colour Video Camera DXC-390P 3-CCD Colour Video Camera DXC-990 3-CCD Colour Video Camera DXC-990P 3-CCD Colour Video Camera

Specifications

CCDC-5: 5 m (16.4 ft) CCDC-10: 10 m (32 ft) CCDC-25: 25 m (82 ft)



CCDC-100A CCDC-50A

Features

•12-pin (female) / 4-pin (male) •DXC-390 / CMA-D2

Applicable Models

DXC-990 3-CCD Colour Video Camera DXC-990P 3-CCD Colour Video Camera

Specifications

CCDC-50A: 50 m (164 ft) CCDC-100A: 100 m (330 ft)



CCF Cables Hybrid Fibre cables

CCF-100

CCF-200

CCF-300

Features

•Hybrid fibre cables for HDC-1500 camera family

Applicable Models

Specifications CCF-100: 100m

HDC-1000 HDC-1500 HDC-3300

CCF-200: 200m CCF-300: 300m

HDCU-1000 HDCU-1500

HDCU-3300

CCFC-M100 Cable Optical Fibre Cable

CCFC-M100

Applicable Models

BRC-300 3-CCD Colour Video Camera BRU-300 Optical Multiplex Unit

Specifications

Cable length: Approx. 100 m



CCFC-M100HG Cable HD Optical Fibre Cable

CCFC-M100HG

Applicable Models

BRC-H700 HD 3-CCD Colour Video Camera

Specifications

Cable length: Approx. 100 m



CCFD-L Cable DV Cable (6-pin to 4-pin)

CCFD-3L

Features

6-pin to 4-pin

Applicable Models

DSR-11 Recorder
DSR-1500AP Editing Recorder
DSR-1600AP Editing Player
DSR-1800AP Editing Recorder
DSR-2000AP Editing Recorder
DSR-250P/1 DVCAM Camcorder
DSR-50P Portable Recorder

DSR-DR1000AP Video Disc Recorder DSR-25 Recorder DSR-45AP Recorder DSR-400PK DVCAM Camcorder DSR-400PL DVCAM Camcorder DSR-450WSPL DVCAM Camcorder HVR-Z1E HDV Camcorder HVR-M10E HDV Recorder HVR-510P XDCAM Camcorder PDW-530P XDCAM Camcorder PDW-F330 XDCAM HD Camcorder PDW-F350 XDCAM HD Camcorder

CCF-L Cable DV Cable (6-pin to 6-pin)

CCF-3L

Features

6-pin to 6-pin

Applicable Models

DSR-1500AP Editing Recorder
DSR-1600AP Editing Player
DSR-1800AP Editing Recorder
DSR-2000AP Editing Recorder
DSR-250P/1 DVCAM Camcorder
DSR-50P Portable Recorder
DSR-DR1000AP Video Disc Recorder
DSR-400PK DVCAM Camcorder
DSR-400PL DVCAM Camcorder
DSR-450WSPL DVCAM Camcorder
PDW-510P XDCAM Camcorder
PDW-530P XDCAM CAmcorder
PDW-F330 XDCAM HD Camcorder
PDW-F350 XDCAM HD Camcorder



CCMC-3MZ Cable

CCMC-3MZ

Features

For connection of CMA-D3/D3CE, capable of connecting to the CCZ-A2/A5/A10/A25/A50/A100 cables (3 m)

Applicable Models

DXC-990 3-CCD Colour Video Camera DXC-990P 3-CCD Colour Video Camera

CCMC-9DS Cable 9-pin/4BNCs, DIN 4-pin

CCMC-9DS

Features

• 9-pin D-sub (male) <> BNCs (R/G/B/SYNC, male), DIN 4-pin (Y/C, male) • 5 m (16.4 ft) • For video output from DXC-390/990

Applicable Models

BRC-300 3-CCD Colour Video Camera DXC-390 3-CCD Colour Video Camera DXC-390P 3-CCD Colour Video Camera DXC-990 3-CCD Colour Video Camera DXC-990P 3-CCD Colour Video Camera DXC-C33 3-CCD Colour Video Camera DXC-C33P 3-CCD Colour Video Camera



CCT Cables Triax Cable

CCT-100

CCT-150

CCT-300

CCT-50

Features

- •BVP-E30 series to CCU-790P or CCU-590P
- •DXC-D55 series to CCU-TX50P

Specifications

CCT-50: 50 m (164 ft)

CCT-100: 100 m (328 ft)

CCT-150: 150 m (492 ft)

CCT-300: 300 m (984 ft)

Cables

CCXC-12P Cables 12-pin/12-pin Multi Core Cables

CCXC-12P05N CCXC-12P10N CCXC-12P25N

Features

12-pin (male) <>12-pin (female)
•DXC-390/990 Series <> CMA-D2

Applicable Models

DXC-390 3-CCD Colour Video Camera DXC-390P 3-CCD Colour Video Camera DXC-990 3-CCD Colour Video Camera DXC-990P 3-CCD Colour Video Camera

Specifications

CCXC-12P05N: 5 m (16.4 ft) CCXC-12P10N: 10 m (33 ft) CCXC-12P25N: 25 m (82 ft)



CCXC-6P Cable Trigger Cable

CCXC-6P05

Features

Trigger Cables

CCXC-9DB Cable 9-pin/9-pin Cable

CCXC-9DB

Features

RGB Cable, 9-pin male - 5 m

Applicable Models

DXC-C33 3-CCD Colour Video Camera
DXC-C33P 3-CCD Colour Video Camera

CCXC-9DBS Cable 9-pin/5BNCs Cable

CCXC-9DBS

Features

•9-pin D-sub (male) <--> BNCs (R/G/B/SYNC/VBS) (male) •5m (16.4 ft) •For video output from DXC-950/950P/390/390P

Applicable Models

BRC-300 3-CCD Colour Video Camera DXC-390 3-CCD Colour Video Camera DXC-390P 3-CCD Colour Video Camera DXC-990 3-CCD Colour Video Camera DXC-990P 3-CCD Colour Video Camera



CCXC-9DD Cable 9-pin/9-pin Cable

CCXC-9DD

Features

- •9-pin D-sub (male) <--> 9-pin D-sub (male) •5m (16.4 ft)
- •For video output from DXC-950/950P/390

Applicable Models

DXC-990 3-CCD Colour Video Camera DXC-990P 3-CCD Colour Video Camera DXC-C33 3-CCD Colour Video Camera DXC-C33P 3-CCD Colour Video Camera

CCXC-T20 Cables CCU to CHU cables

CCXC-T20P02 CCXC-T20P05 CCXC-T20P10

Specifications

CCXC-T20P02: 2 m CCXC-T20P05: 5 m CCXC-T20P10: 10 m

CCZ-A Cables 26-pin/26-pin Cable

CCZ-A10 CCZ-A100 CCZ-A2

CCZ-A25

CCZ-A5

CCZ-A50

Features

- •26-pin (male) <--> 26-pin (female)
- •DXC-D55P/D55WSP series <--> CCU-M50P



Applicable Models

CA-D50 Camera Adaptor
CCU-D50 Camera Control Unit
CCU-D50P Camera Control Unit
DXC-390 3-CCD Colour Video Camera
DXC-390P 3-CCD Colour Video Camera
DXC-D55PH 3-chip CCD Portable Colour
Camera

DXC-D55PK 3-chip CCD Portable Colour Camera

DXC-D55PL 3-chip CCD Portable Colour

Camera

DXC-D55WSPL 3-chip CCD Portable Colour

Camera

DXC-H10 3-CCD Colour Video Camera

Specifications

CCZ-A2: 2m (6.5 ft) CCZ-A5: 5m (16.5 ft) CCZ-A10: 10m (33 ft) CCZ-A25: 25m (82 ft) CCZ-A50: 50m (164 ft) CCZ-A100: 100m (330 ft)

RCC-5AA Cable 9-pin/15-pin Audio mixer control cable

RCC-5AA

Features

- •9-pin (male) <--> 15-pin (female), 5m (16ft)
- •PVE-500 <---> MXP-290



RCC-G Cable 9-pin/9-pin Cable

RCC-5G

Features

•9-pin (male) <--> 9-pin (male)



Applicable Models

DSR-45AP Recorder DSR-1500AP Editing Recorder DSR-1600AP Editing Player DSR-1800AP Editing Recorder DSR-2000AP Editing Recorder DSR-DR1000AP Video Disc Recorder DVW-2000 Digital Betacam Recorder DVW-2000P Digital Betacam Recorder DVW-M2000 Digital Betacam Recorder DVW-M2000P Digital Betacam Recorder HDW-1800 HDCAM VTR HDW-D1800 HDCAM VTR HDW-2000 HDCAM VTR (all versions including /20) HDW-M2000 HDCAM VTR (all versions including /20) HDW-M2000P HDCAM VTR (all versions including /20) HDW-D2000 HDCAM VTR (all versions including /20) HDW-M2100 HDCAM Player (all versions including /20) HDW-M2100P HDCAM Player (all versions including /20) MSW-2000 MPEG IMX Recorder (all versions including /1) MSW-A2000 MPEG IMX Recorder (all versions including /1) MSW-A2000P MPEG IMX Recorder (all versions including /1) MSW-M2000 MPEG IMX Recorder (all versions including /1) MSW-M2000P MPEG IMX Recorder (all versions including /1) MSW-M2100 MPEG IMX Player (all versions including /1) MSW-M2100P MPEG IMX Player (all versions including /1) PC-3000 Signal Interface Switcher PDW-1500 XDCAM Compact Deck (Recording and Playback) PDW-F70 XDCAM HD Recording Deck PDW-F30 XDCAM HD Viewing Deck PDW-R1 XDCAM Field Recorder

Specifications

RCC-5G: 5 m (16 ft)

RCC-R Cable Cascade Connection Cable

RCC-5R

Specifications

RCC-5R: 5m (16.4 ft)

VMC-IL44 Cables 4-pin <-> 4-pin i.LINK Cable

VMC-IL4415 VMC-IL4435

Applicable Models

DSR-11 Recorder
DSR-25 Recorder
DSR-45AP Recorder
DSR-9D170P DVCAM Camcorder
HVR-21E HDV Camcorder
HVR-A1E HDV Camcorder
HVR-M10E HDV Recorder

Specifications

VMC-IL4415: 1.5 m(5 ft) VMC-IL4435: 3.5 m(12 ft)



VMC-IL4415

VMC-IL46 Cables 4-pin <-> 6-pin i.LINK Cable

VMC-IL4615 VMC-IL4635



VMC-II 4615

Applicable Models

DSR-11 Recorder DSR-25 Recorder DSR-250P/1 DVCAM Camcorder DSR-45AP Recorder DSR-50P Portable Recorder DSR-PD170P DVCAM Camcorder DXC-C33 3-CCD Colour Video Camera DXC-C33P 3-CCD Colour Video Camera HVR-Z1E HDV Camcorder HVR-A1E HDV Camcorder HVR-M10E HDV Recorder PDW-1500 XDCAM Compact Deck (Recording and Playback) PDW-510 XDCAM Camcorder (DVCAM Recording) PDW-510P XDCAM Camcorder (DVCAM Recording) PDW-530 XDCAM Camcorder

PDW-530P XDCAM Camcorder (MPEG IMX/DVCAM Recording)
PDW-F70 XDCAM HD Recording Deck
PDW-F30 XDCAM HD Viewing Deck
PDW-R1 XDCAM Field Recorder
PDW-D1 XDCAM Drive Unit
PDW-V1 XDCAM Mobile Deck
(Playback and File Recording)
PDW-F330 XDCAM HD Camcorder
PDW-F350 XDCAM HD Camcorder

Specifications

VMC-IL4615: 1.5 m (5 ft) VMC-IL4635: 3.5 m (12 ft)

VMC-IL66 Cables 6-pin <-> 6-pin i.LINK Cable

VMC-IL6615 VMC-IL6635

Applicable Models

(MPEG IMX/DVCAM Recording)

DSR-250P/1 DVCAM Camcorder DSR-50P Portable Recorder DXC-C33 3-CCD Colour Video Camera DXC-C33P 3-CCD Colour Video Camera PDW-1500 XDCAM Compact Deck (Recording and Playback) PDW-510 XDCAM Camcorder (DVCAM Recording) PDW-510P XDCAM Camcorder (DVCAM Recording) PDW-530 XDCAM Camcorder (MPEG IMX/DVCAM Recording) PDW-530P XDCAM Camcorder (MPEG IMX/DVCAM Recording) PDW-F70 XDCAM HD Recording Deck PDW-F30 XDCAM HD Viewing Deck PDW-R1 XDCAM Field Recorder PDW-D1 XDCAM Drive Unit PDW-V1 XDCAM Mobile Deck (Playback and File Recording) PDW-F330 XDCAM HD Camcorder PDW-F350 XDCAM HD Camcorder

Specifications

VMC-IL6615: 1.5 m(5 ft) VMC-IL6635: 3.5 m(12 ft)



VMC-IL6615

SONY

2NP-F970/B220	BKM-68X439	С
2NP-QM91D/B220	BKM-FW10412	CA-590P45
A	BKM-FW11412	CA-905F
A	BKM-FW12412	CA-D5047
AC-DN10206	BKM-FW32412	CA-TX50P
AC-DN2B206	BKM-FW50411	CA-WR85549
AC-SQ950B207	BKMW-101226	CAC-1250
AC-VQ1050B207	BKMW-102226	CAC-450
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BRBK-302 41 VCL-0716BXA 74 DSR-1800AP 150 BRBK-303 41 VCL-616WEA 74 DSR-1600AP 152 BRBK-304 41 VCS-700 75 DSR-1500AP 154 BRBK-H700 41 VCT-U14 76 DSR-45AP 156 BRU-300 42 VFH-550 77 DSR-50P 157 BRU-H700 42 VFH-770 77 DSR-DR1000AP 158 BVF-20WCE 43 VFH-990 77 XDCAM BVF-55CE 43 WLL-CA50 78 PDW-510 160 CA-590P 45 WLL-CA55 79 PDW-510P 162 CA-905F 46 WLL-RX55 80 PDW-530 164 CA-D50 47 HDV PDW-530P 166 CA-TX50P 48 HVR-Z1E 82 PDW-1500 168 CA-90855 49 HVR-V1E 84 PDW-D1 170 CAC-12 50 HVR-A1E 86 PDW-D1 170 CAC-12 <td< td=""><td></td><td>RMM-30173</td><td></td></td<>		RMM-30173	
BRBK-304 41 VCL-616WEA 74 DSR-1500AP 154 BRBK-H700 41 VCS-700 .75 DSR-45AP 156 BRU-300 42 VFH-550 .77 DSR-50P 157 BRU-H700 42 VFH-550 .77 DSR-DR1000AP 158 BVF-20WCE 43 VFH-990 .77 XDCAM BVF-55CE 43 WLL-CA50 .78 PDW-510 160 CA-590P 45 WLL-CA55 .79 PDW-510P 162 CA-905F 46 WLL-RX55 .80 PDW-530P 164 CA-D50 47 HDV PDW-530P 166 CA-TX50P 48 HVR-Z1E .82 PDW-1500 168 CA-WR855 49 HVR-V1E .84 PDW-D1 .70 CAC-12 50 HVR-A1E .86 PDW-V1 .71 CAC-4 50 HVR-M15E .88 CBK-FC01 .73 CCU-590P			
BRBK-H700 41 VCS-700 75 DSR-45AP 156 BRU-300 42 VFH-550 77 DSR-50P 157 BRU-H700 42 VFH-770 77 DSR-DR1000AP 158 BVF-20WCE 43 VFH-990 77 XDCAM BVF-55CE 43 WLL-CA50 78 PDW-510 160 CA-590P 44 WLL-CA55 79 PDW-510P 162 CA-905F 46 WLL-RX55 80 PDW-530 164 CA-D50 47 HDV PDW-530P 166 CA-TX50P 48 HVR-Z1E 82 PDW-1500 168 CA-WR855 49 HVR-V1E 84 PDW-D1 170 CAC-12 50 HVR-A1E 86 PDW-V1 171 CAC-4 50 HVR-M15E 88 CBK-FC01 173 CCU-590P 51 HVR-M25E 89 CBK-NC01 173 CCU-790P 52		VCL-616WEA74	
BRU-300 42 VCT-014 76 DSR-50P 157 BRU-H700 42 VFH-550 77 DSR-DR1000AP 158 BVF-20WCE 43 VFH-990 77 XDCAM BVF-55CE 43 WLL-CA50 78 PDW-510 160 BVF-77CE 44 WLL-CA55 79 PDW-510P 162 CA-590P 45 WLL-RX55 80 PDW-510P 162 CA-905F 46 PDW-530P 164 CA-D50 47 HDV PDW-530P 166 CA-TX50P 48 HVR-Z1E 82 PDW-1500 168 CA-WR855 49 HVR-V1E 84 PDW-D1 170 CAC-12 50 HVR-A1E 86 PDW-V1 171 CAC-4 50 HVR-M15E 88 CBK-FC01 173 CCU-590P 51 HVR-M25E 89 CBK-NC01 173 CCU-790P 52 HVR-1500 90		VCS-700	
BRU-H700 42 VFH-770 77 DSR-DR1000AP 158 BVF-20WCE 43 VFH-990 77 XDCAM BVF-55CE 43 WLL-CA50 78 PDW-510 160 BVF-77CE 44 WLL-CA55 79 PDW-510P 162 CA-590P 45 WLL-RX55 80 PDW-510P 162 CA-905F 46 PDW-530P 164 164 CA-D50 47 HDV PDW-530P 166 CA-TX50P 48 HVR-Z1E 82 PDW-1500 168 CA-WR855 49 HVR-V1E 84 PDW-D1 170 CAC-12 50 HVR-A1E 86 PDW-V1 171 CAC-4 50 HVR-M15E 88 CBK-FC01 173 CCU-590P 51 HVR-M25E 89 CBK-NC01 173 CCU-790P 52 HVR-1500 90 CBK-NC01 173		VCT-U1476	
BVF-20WCE 43 VFH-990 77 XDCAM BVF-55CE 43 WLL-CA50 78 PDW-510 160 BVF-77CE 44 WLL-CA55 79 PDW-510P 162 CA-590P 45 WLL-RX55 80 PDW-530P 162 CA-905F 46 PDW-530P 164 CA-D50 47 HDV PDW-530P 166 CA-TX50P 48 HVR-Z1E 82 PDW-1500 168 CA-WR855 49 HVR-V1E 84 PDW-D1 170 CAC-12 50 HVR-A1E 86 PDW-V1 171 CAC-4 50 HVR-M15E 88 PDW-R1 172 CCU-590P 51 HVR-M25E 89 CBK-RC01 173 CCU-790P 52 HVR-1500 90 CBK-NC01 173		VFH-55077	
BVF-55CE .43 VFH-990 .77 XDCAM BVF-77CE .44 WLL-CA50 .78 PDW-510 .160 CA-590P .45 WLL-RX55 .79 PDW-510P .162 CA-905F .46 WLL-RX55 .80 PDW-530 .164 CA-D50 .47 HDV PDW-530P .166 CA-TX50P .48 HVR-Z1E .82 PDW-1500 .168 CA-WR855 .49 HVR-V1E .84 PDW-D1 .170 CAC-12 .50 HVR-A1E .86 PDW-V1 .171 CAC-4 .50 HVR-M15E .88 PDW-R1 .172 CCU-590P .51 HVR-M25E .89 CBK-FC01 .173 CCU-790P .52 HVR-1500 .90 CBK-NC01 .173			DSR-DR1000AP158
BVF-55CE .43 WLL-CA50 .78 PDW-510 .160 BVF-77CE .44 WLL-CA55 .79 PDW-510P .162 CA-590P .45 WLL-RX55 .80 PDW-510P .162 CA-905F .46 PDW-530 .164 .164 CA-D50 .47 HDV PDW-530P .166 CA-TX50P .48 HVR-Z1E .82 PDW-1500 .168 CA-WR855 .49 HVR-V1E .84 PDW-D1 .170 CAC-12 .50 HVR-A1E .86 PDW-V1 .171 CAC-4 .50 HVR-M15E .88 PDW-R1 .172 CCU-590P .51 HVR-M25E .89 CBK-FC01 .173 CCU-790P .52 HVR-1500 .90 CBK-NC01 .173		VFH-990	XDCAM
CA-590P 45 WLL-CA55 79 PDW-510P 162 CA-905F 46 PDW-530 164 CA-D50 47 HDV PDW-530P 166 CA-TX50P 48 HVR-Z1E 82 PDW-1500 168 CA-WR855 49 HVR-V1E 84 PDW-D1 170 CAC-12 50 HVR-A1E 86 PDW-V1 171 CAC-4 50 HVR-M15E 88 PDW-R1 172 CCU-590P 51 HVR-M25E 89 CBK-FC01 173 CCU-790P 52 HVR-1500 90 CBK-NC01 173		WLL-CA5078	
CA-905F .46 CA-D50 .47 HDV PDW-530P .166 CA-TX50P .48 HVR-Z1E .82 PDW-1500 .168 CA-WR855 .49 HVR-V1E .84 PDW-D1 .170 CAC-12 .50 HVR-A1E .86 PDW-V1 .171 CAC-4 .50 HVR-M15E .88 PDW-R1 .172 CCU-590P .51 HVR-M25E .89 CBK-FC01 .173 CCU-790P .52 HVR-1500 .90 CBK-NC01 .173	_	WLL-CA5579	
CA-D50 47 HDV PDW-530P 166 CA-TX50P 48 HVR-Z1E 82 PDW-1500 168 CA-WR855 49 HVR-V1E 84 PDW-D1 170 CAC-12 50 HVR-A1E 86 PDW-V1 171 CAC-4 50 HVR-M15E 88 PDW-R1 172 CCU-590P 51 HVR-M25E 89 CBK-FC01 173 CCU-790P 52 HVR-1500 90 CBK-NC01 173		WLL-RX5580	
CA-TX50P .48 HVR-Z1E .82 PDW-1500 .168 CA-WR855 .49 HVR-V1E .84 PDW-D1 .170 CAC-12 .50 HVR-A1E .86 PDW-V1 .171 CAC-4 .50 HVR-M15E .88 PDW-R1 .172 CCU-590P .51 HVR-M25E .89 CBK-FC01 .173 CCU-790P .52 HVR-1500 .90 CBK-NC01 .173 CRY-0024 .70		HDV	
CA-WR855 .49 HVR-V1E .84 PDW-D1 .170 CAC-12 .50 HVR-A1E .86 PDW-V1 .171 CAC-4 .50 HVR-M15E .88 PDW-R1 .172 CCU-590P .51 HVR-M25E .89 CBK-FC01 .173 CCU-790P .52 HVR-1500 .90 CBK-NC01 .173			
CAC-12 .50 HVR-A1E .86 PDW-V1 .171 CAC-4 .50 HVR-M15E .88 PDW-R1 .172 CCU-590P .51 HVR-M25E .89 CBK-FC01 .173 CCU-790P .52 HVR-1500 .90 CBK-NC01 .173			
CAC-4 .50 HVR-M15E .88 PDW-R1 .172 CCU-590P .51 HVR-M25E .89 CBK-FC01 .173 CCU-790P .52 HVR-1500 .90 CBK-NC01 .173			
CCU-590P .51 HVR-M25E .89 CBK-FC01 .173 CCU-790P .52 HVR-1500 .90 CBK-NC01 .173			
CCU-790P			
170			
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CBK-SD01174	MSDW-904219	BKAW-570243
PDJ-C1080175	NP-F570220	DFS-800244
PDJ-A640176	NP-F770220	BKDF-810245
PDJ-CS10177	2NP-F970/B220	BKDF-811245
1 20-0010	2NP-QM91D/B220	BKDF-840245
Digital Betacam		
DVW-970P180	NP-QM91D221	BKDF-860245
DVW-M2000182	RM-1BP	BKDF-861245
	RM-B150221	MFS-2000246
DVW-M2000P184	RM-B750222	HK-PSU02247
DVW-2000186	SH-L35WBP222	HK-PSU11247
DVW-2000P188	VCL-0737W223	MKS-2010248
J-30190	VCL-HG0862K223	MKS-2015249
J-30/SDI191	VCL-HG0872223	MKS-2017250
MPEG IMX	VCT-14223	MKS-2110M251
_	VCT-1BP224	MKS-2420M251
MSW-970P194	VCT-PG11RMB224	MKS-2440251
MSW-M2000P/1196	VCT-FXA224	MKS-2470251
MSW-A2000P/1198	VF-72CPK224	BZS-2000M252
MSW-2000	VI - 1201 K	BZS-2470M252
MSW-M2100P/1202	VTR/Deck Accessories	
	& Peripherals	BZS-2440M252
Camcorder Accessories	BKDW-101226	MVS-8000G253
& Peripherals	BKMW-101226	MVS-8000GSF255
AC-DN10		BZS-8500M257
AC-DN2B	BKMW-102226	BZS-8510M257
AC-SQ950B207	BKMW-103227	BZS-8520M257
AC-VQ1050B207	BKMW-104	BZS-8530M257
BC-M150208	BKMW-E3000228	DVS-9000258
BC-L70209	BKP-L551229	DVS-9000SF260
BC-L500210	DSBK-1501229	BKDS-9160262
BP-GL65211	DSBK-1505229	BKDS-9161262
	DSBK-1601229	BKDS-9162262
BP-GL95	DSBK-1801230	BKDS-9210262
BP-L60S213	DSBK-1820230	BKDS-9470263
BP-L80S213	DSBK-2020230	BZS-9471263
CBK-MB01214	DSRM-10	MKS-8110SD264
CBK-FC01214	HKDW-101231	MKS-8110G264
CBK-SC01214	HKDW-102231	
CBK-SD01214	HKDW-102231	MKS-8111SD264
CBK-NC01215		MKS-8111G265
HKDW-702/1215		MKS-8160G265
HKDW-703/1215	PDBK-101232	NAIZC 0464NA 96E
11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	DDDI/ 400	MKS-8161M265
	PDBK-102232	MKS-8162A266
HKDW-705216	PDBK-103232	
HKDW-705	PDBK-103	MKS-8162A266
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216	PDBK-103232 PDBK-104232 RM-280233	MKS-8162A
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217	PDBK-103	MKS-8162A266 MKS-8170G266 MKS-8210G266 MKS-8442G266
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217 HVL-20DW2 .217	PDBK-103 .232 PDBK-104 .232 RM-280 .233 RMM-131 .233	MKS-8162A .266 MKS-8170G .266 MKS-8210G .266 MKS-8442G .266 MKS-8450G .267
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217 HVL-20DW2 .217 HVL-F10 .217	PDBK-103 .232 PDBK-104 .232 RM-280 .233 RMM-131 .233 Networked Production	MKS-8162A .266 MKS-8170G .266 MKS-8210G .266 MKS-8442G .266 MKS-8450G .267 BZS-8250 .267
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217 HVL-20DW2 .217 HVL-F10 .217 HVL-FH1100 .217	PDBK-103 .232 PDBK-104 .232 RM-280 .233 RMM-131 .233 Networked Production HDXchange .236	MKS-8162A .266 MKS-8170G .266 MKS-8210G .266 MKS-8442G .266 MKS-8450G .267 BZS-8250 .267 BZS-9250 .268
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217 HVL-20DW2 .217 HVL-F10 .217 HVL-FH1100 .217 LC-777 .218	PDBK-103 .232 PDBK-104 .232 RM-280 .233 RMM-131 .233 Networked Production HDXchange .236 Sonaps .237	MKS-8162A .266 MKS-8170G .266 MKS-8210G .266 MKS-8442G .266 MKS-8450G .267 BZS-8250 .267 BZS-9250 .268 BZS-8200 .268
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217 HVL-20DW2 .217 HVL-F10 .217 HVL-FH1100 .217 LC-777 .218 LC-DN7 .218	PDBK-103 .232 PDBK-104 .232 RM-280 .233 RMM-131 .233 Networked Production HDXchange .236	MKS-8162A .266 MKS-8170G .266 MKS-8210G .266 MKS-8442G .266 MKS-8450G .267 BZS-8250 .267 BZS-9250 .268 BZS-8200 .268 BZPS-8000 .269
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217 HVL-20DW2 .217 HVL-F10 .217 HVL-FH1100 .217 LC-777 .218 LC-DN7 .218 LCH-FXA .218	PDBK-103 .232 PDBK-104 .232 RM-280 .233 RMM-131 .233 Networked Production HDXchange .236 Sonaps .237 XpriNS .238	MKS-8162A .266 MKS-8170G .266 MKS-8210G .266 MKS-8442G .266 MKS-8450G .267 BZS-8250 .267 BZS-9250 .268 BZS-8200 .268 BZPS-8000 .269 BZPS-8001 .270
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217 HVL-20DW2 .217 HVL-F10 .217 HVL-FH1100 .217 LC-777 .218 LC-DN7 .218 LCH-FXA .218 LCH-TRV950 .218	PDBK-103 .232 PDBK-104 .232 RM-280 .233 RMM-131 .233 Networked Production HDXchange .236 Sonaps .237 XpriNS .238 Data Archive Solutions	MKS-8162A .266 MKS-8170G .266 MKS-8210G .266 MKS-8442G .266 MKS-8450G .267 BZS-8250 .267 BZS-9250 .268 BZPS-8200 .268 BZPS-8000 .269 BZPS-8001 .270 HK-PSU04 .270
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217 HVL-20DW2 .217 HVL-F10 .217 HVL-FH1100 .217 LC-777 .218 LC-DN7 .218 LCH-FXA .218	PDBK-103 .232 PDBK-104 .232 RM-280 .233 RMM-131 .233 Networked Production HDXchange .236 Sonaps .237 XpriNS .238	MKS-8162A .266 MKS-8170G .266 MKS-8210G .266 MKS-8442G .266 MKS-8450G .267 BZS-8250 .267 BZS-9250 .268 BZS-8200 .268 BZPS-8000 .269 BZPS-8001 .270 HK-PSU04 .270 MVE-8000A .271
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217 HVL-20DW2 .217 HVL-F10 .217 HVL-FH1100 .217 LC-777 .218 LC-DN7 .218 LCH-FXA .218 LCH-TRV950 .218	PDBK-103 .232 PDBK-104 .232 RM-280 .233 RMM-131 .233 Networked Production HDXchange .236 Sonaps .237 XpriNS .238 Data Archive Solutions PetaSite .240	MKS-8162A 266 MKS-8170G 266 MKS-8210G 266 MKS-8442G 266 MKS-8450G 267 BZS-8250 267 BZS-9250 268 BZS-8200 268 BZPS-8000 269 BZPS-8001 270 HK-PSU04 270 MVE-8000A 271 MKE-8020A 272
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217 HVL-20DW2 .217 HVL-F10 .217 HVL-FH1100 .217 LC-777 .218 LC-DN7 .218 LCH-FXA .218 LCH-TRV950 .218 LCH-VX2000A .218	PDBK-103 .232 PDBK-104 .232 RM-280 .233 RMM-131 .233 Networked Production HDXchange .236 Sonaps .237 XpriNS .238 Data Archive Solutions PetaSite .240 Digital Video Switchers	MKS-8162A .266 MKS-8170G .266 MKS-8210G .266 MKS-8442G .266 MKS-8450G .267 BZS-8250 .267 BZS-9250 .268 BZS-8200 .268 BZPS-8000 .269 BZPS-8001 .270 HK-PSU04 .270 MVE-8000A .271 MKE-8020A .272 MKE-8021A .272
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217 HVL-20DW2 .217 HVL-F10 .217 HVL-FH1100 .217 LC-777 .218 LC-DN7 .218 LCH-FXA .218 LCH-TRV950 .218 LCH-VX2000A .218 LCR-FXA .218	PDBK-103 .232 PDBK-104 .232 RM-280 .233 RMM-131 .233 Networked Production HDXchange .236 Sonaps .237 XpriNS .238 Data Archive Solutions PetaSite .240 Digital Video Switchers & Accessories	MKS-8162A 266 MKS-8170G 266 MKS-8210G 266 MKS-8442G 266 MKS-8450G 267 BZS-8250 267 BZS-9250 268 BZS-8200 268 BZPS-8000 269 BZPS-8001 270 HK-PSU04 270 MVE-8000A 271 MKE-8020A 272 MKE-8040A 272
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217 HVL-20DW2 .217 HVL-F10 .217 HVL-FH1100 .217 LC-777 .218 LC-DN7 .218 LCH-FXA .218 LCH-TRV950 .218 LCH-VX2000A .218 LCR-FXA .218 LCS-VCB .219	PDBK-103 .232 PDBK-104 .232 RM-280 .233 RMM-131 .233 Networked Production HDXchange .236 Sonaps .237 XpriNS .238 Data Archive Solutions PetaSite .240 Digital Video Switchers & Accessories AWS-G500 .242	MKS-8162A 266 MKS-8170G 266 MKS-8210G 266 MKS-8442G 266 MKS-8450G 267 BZS-8250 267 BZS-9250 268 BZS-8200 268 BZPS-8001 270 HK-PSU04 270 MVE-8000A 271 MKE-8021A 272 MKE-8040A 272 MVE-9000 273
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217 HVL-20DW2 .217 HVL-F10 .217 HVL-FH1100 .217 LC-777 .218 LC-DN7 .218 LCH-FXA .218 LCH-TRV950 .218 LCH-VX2000A .218 LCR-FXA .218 LCS-VCB .219 LCS-G1BP .219	PDBK-103 .232 PDBK-104 .232 RM-280 .233 RMM-131 .233 Networked Production HDXchange .236 Sonaps .237 XpriNS .238 Data Archive Solutions PetaSite .240 Digital Video Switchers & Accessories	MKS-8162A 266 MKS-8170G 266 MKS-8210G 266 MKS-8442G 266 MKS-8450G 267 BZS-8250 267 BZS-9250 268 BZS-8200 268 BZPS-8000 269 BZPS-8001 270 HK-PSU04 270 MVE-8000A 271 MKE-8020A 272 MKE-8040A 272 MVE-9000 273 MKE-9020M 274
HKDW-705 .216 HKDW-902R .216 HKDW-905R .216 HVL-LBP .217 HVL-20DW2 .217 HVL-F10 .217 HVL-FH1100 .217 LC-777 .218 LC-DN7 .218 LCH-FXA .218 LCH-TRV950 .218 LCH-VX2000A .218 LCR-FXA .218 LCS-VCB .219 LCS-G1BP .219 LO-32BMT .219	PDBK-103 .232 PDBK-104 .232 RM-280 .233 RMM-131 .233 Networked Production HDXchange .236 Sonaps .237 XpriNS .238 Data Archive Solutions PetaSite .240 Digital Video Switchers & Accessories AWS-G500 .242	MKS-8162A 266 MKS-8170G 266 MKS-8210G 266 MKS-8442G 266 MKS-8450G 267 BZS-8250 267 BZS-9250 268 BZS-8200 268 BZPS-8001 270 HK-PSU04 270 MVE-8000A 271 MKE-8021A 272 MKE-8040A 272 MVE-9000 273

MKE-9040M274	Audio Mixer & Consoles	Digital PCM Recorder
BZDM-9050275	DMX-P01314	PCM-D1348
MKS-8700275	SRP-X700P315	XLR-1349
MKS-8701	SRP-X500P316	Wireless Microphones
MKS-8702	Wired Microphones	•
MKS-2700276		AN-820A
MKS-8010A277	DC-78	CU-E672
MKS-8011A	ECM-166BC	CU-E700
MKS-8014A278	ECM-166BMP	CU-F117
MKS-8015A279	ECM-322BMP320	CU-G780354
MKS-8017A279	ECM-44B321	EC-1.5CF355
MKS-8018A280	ECM-44BC322	K-1334355
MKS-8019A280	ECM-44BMP323	MB-X6356
MKS-8020A281	ECM-530324	MB-8N357
MKS-8024A282	ECM-55B325	UTX-P1/62358
MKS-8025MS282	ECM-66B326	UTX-P1/67359
MKS-8026A283	ECM-673327	UWP-C1/62360
MKS-8027A283	ECM-674328	UWP-C1/67362
MKS-8028A284	ECM-678329	UWP-C2/62364
MKS-8030A284	ECM-680S	UWP-C2/67365
MKS-8031AJS285	ECM-77B	UWP-C3/62
MKS-8031ATB285	ECM-77BC	UWP-C3/67367
MKS-8032A286	ECM-77BMP333	UWP-S1/62368
MKS-8033A	ECM-77BPT334	UWP-S1/67
MKS-8034ADK287	ECM-88B	UWP-S2/62
MKS-8034AFB287	ECM-88BC	UWP-S2/67
MKS-8035A288	ECM-88BPT337	UWP-X1/62
MKS-8036A	ECM-88FPT337	UWP-X1/67
MKS-8040	F-112	UWP-X2/62
MKS-8041	F-710339	WD-850A
MKS-8075289	F-780	WRR-855B/62377
MKS-8075289	AD-KIT88B341	WRR-855B/67378
MKS-8076290	SAD-H88B341	WRR-862B/62379
MKS-8080290	SAD-V88B341	WRR-862B/67380
MKS-8082291	SAD-W88BL341	WRT-807B/62381
MKS-9011A292	SAD-S88B342	WRT-807B/67381
MKS-9012A293	AD-KIT88342	WRT-822B/62382
SWC-5002294	SAD-88B	WRT-822B/67383
SWC-5005294	SAD-P88342	WRT-847B/62384
SWC-5010294	SAD-W88B343	WRT-847B/67385
MKS-2050295	AD-R88B343	WRT-8B/62
MKS-8050295	AD-C88	WRT-8B/67
BZS-8050295	AD-KIT77	WRU-806B/62
Sony Creative Software	SAD-H77B344	WRU-806B/67
Vegas + DVD Production	SAD-V77B344	WRU-8N/62
Suite	SAD-W77B	WRU-8N/67389
Vegas Pro 8301	AD-R77B345	Monitor Equipment
Vegas Movie Studio	AD-C77B345	MDR-7502392
Platinum 8	AD-C77345	MDR-7505393
Cinescore	AD-R66B345	MDR-7506394
ACID Pro 6	SAD-H55B346	MDR-7509HD395
Sound Forge 9308	AD-R55B	
CD Architect 5.2	SAD-H44B346	Digital Signage Solutions
	AD-R44B346	BZSQ-C001398
		BZSQ-C101398

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FWD-50PX3 S/B410	VPL-CX86447	
BKM-FW50411	VPL-CX100448	
BKM-FW10412	VPL-CX120449	
BKM-FW11412	VPL-CX150450	
BKM-FW12412	VPL-CX125451	
BKM-FW32412	VPL-CX155452	
SU-32/42FW413	VPL-CW125453	
SU-50FW413	VPL-FX52/L454	
SS-SP32FW/40FW/42FW413	VPL-FX40/L455	
SS-SP50FW413	VPL-FE40/L	
FS-LP1NL	VPL-VW50457	
WB-LP1NL	VPL-VW60	
CB-LP1NL414	VPL-VW200459	
Monitors	Large Venue Projectors	
BVM-A20F1M416	SRX-R110CE462	
BVM-A14F5M417	SRX-R105CE	
BVM-L230418	SRX-S110463	
LMD-2450W419	SRX-S105463	
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