



PDW-75MD 1080i HD Medical Video Recorder

The PDW-75MD XDCAM® HD is an optical based HD video disc recorder designed for medical applications. The device records high-definition video in 1440 x 1080i resolution, delivering outstanding HD image quality and accurate color reproduction. To accommodate the increasing adoption of HD imaging in the surgical environment, this second generation recorder employs a newly developed dual layer optical disc technology that greatly increases the recording time per disc. The PDW-75MD can store up to 4.5 hours of HD video on one 50 gigabyte dual-layered disc and up to 2 hours on one 23 gigabyte single layered disc.

Together with the optional PDW-U1 XDCAM drive unit, doctors can easily transfer recorded HD video material from the operating room to their office computer, laptop or other workstation for viewing and editing. Superb quality HD video can then be stored in patient archives, shared with colleagues within the hospital network or presented for education purposes.

- Compact unit can be positioned horizontally or vertically for easy integration
- Record up to 4.5 half hours of HD video on one PFD-50DLA professional dual layer disc
- Select desired bit rates of 35, 25, or 18 MB/s depending on requirements for picture quality and recording length
- 3.5-inch color screen* for easy viewing and setup
- Built-in down converter for a composite output
- Jog/shuttle dial equipped for VTR-like operation
- HD-SDI Inputs and Outputs
- PFD-50DLA and PFD-23A professional media discs are completely sealed to help prevent dust and scratches
- Discs can be recorded and re-written 1,000 times** and played backed 10,000 times. Data life on the discs is more than 50 years.**



*Viewable area measured diagonally.

**Based on Sony testing.

Specifications

General	
Power Requirements	100 V to 240 V AC, 50/60Hz
Power Consumption	70W
Operating Temperature	+41 to +104° F (+5 to +40° C)
Storage Temperature	-4 to +140° F (-20 to +60° C)
Humidity	20 to 90% (relative humidity)
Weight	15 lb 6 oz (7.2 kg)
Dimensions (W x H x D)	12 1/8 x 4 x 16 1/2 inches (307 x 100 x 411 mm)
Recording 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: 18Mb/s), DVCAM (CBR, 25 Mb/s) (option: PDBK 104)
	Proxy Video MPEG-4
	Audio MPEG HD: 4 ch or 2 ch, 16 bits/48 kHz DVCAM: 4ch, 16bit/48 kHz
	Proxy Audio A-law (4 ch / 2 ch, 8 bit, 8 kHz)
Playback Format	Video MPEG-4 (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), DVCAM (CBR, 25 Mb/s)
	Proxy Video MPEG-4
	Audio MPEG HD: 4 ch or 2 ch, 16 bit/48 kHz DVCAM: 4 ch / 2 ch, 8 bit, 8 kHz
	Proxy Audio A-law (4 ch / 2 ch, 8 bit, 8 kHz)
Recording/Playback Time (Approximately)	PFD50DLA(50 GB)** PFD23A (23.3 GB)**
	DVCAM 185 minutes 85 minutes
	MPEG HD:
	HQ 35 Mb/s VBR 145 minutes (4-ch audio) 65 minutes (4-ch audio) 150 minutes (2-ch audio) 68 minutes (2-ch audio)
	SP 25 Mb/s CBR 190 minutes (4-ch audio) 85 minutes (4-ch audio) 200 minutes (2-ch audio) 90 minutes (2-ch audio)
	LP 18 Mb/s VBR 248 minutes (4-ch audio) 112 minutes (4-ch audio) 265 minutes (2-ch audio) 122 minutes (2-ch audio)
Search Speed (In color)	Jog Mode ±1 time normal speed
	Variable Speed mode ±1 time normal speed
	±20 times normal speed
Signal Inputs/Outputs	
Analog Reference Input	BNC x 2 (including loop through), HD Tri-level sync or SD composite sync (0.3 Vp-p/75W/sync negative)
Analog Composite Input (Option: PDBK-104)	BNC x 1, RS-170M
Analog HD Component Input (Option: PDBK-103)	BNC x 4, Y/Pb/Pr/ (Sync) or G/B/R (Sync)
HD-SDI Input	BNC X 1, SMPTE 292M
SD-SDI Input (Option: PDBK-104)	BNC X 1, SMPTE 259M
Analog Audio Input	XLR x 2 (Channel Selectable), +4/0/-3/-6 dBu (selectable), 10 kW, balanced
Digital Audio Input	AES/EBU, BNC x 2, 4 channels
Timecode Input	BNC X 1, SMPTE Timecode
Analog Composite Video Output	BNC x 1, (1.0 Vp-p/75W/sync negative), RCA-pin x 1, (1.0 Vp-p/75W/sync negative)
Monitor Output	D-sub 15-pin (G/B/R or Y/Pb/Pr)
Built-in Display	3.5-inch* type color LCD monitor
HD-SDI Output	BNC x 2, SMPTE 292M
SD-SDI Output	BNC x 1, SMPTE 259M
Analog Audio Output	XLR x 2 (channel selectable), +4/0/-3/-6 dBu (selectable), 600W load, balanced
Audio Monitor Output	RCA x 2(L, R, Mix), -6dBu, 47kW, unbalanced
Headphone Output	Stereo phone jack, -14 dBu, 8W, unbalanced
Digital Audio Output	AES/EBU, BNC x 2, 4 channels
Timecode Output	BNC x 1, SMPTE timecode
Other Inputs/Outputs	
I.LINK	IEEE 1394, 6-pin x 1, AV/C (DV stream output) or File Access Mode
I.LINK (HDV 1080i) (Option: PDBK-102)	IEEE 1394, 6-pin x 1, HDV 1080i IN/OUT
Ethernet (Option: PDBK-101)	1,000 Based-T (RJ-45)
RS-422A	D-sub 9-pin x 1
RS-232C	D-sub 9-pin x 1
Control	Mini-jack 4-pin
Supplied Accessories	Operation manual (x1), Vertical Installation stand (x1), Infrared remote commander (x1), PDZ-1 Proxy Browsing Software (x1), PDZ-VX10 XDCAM Viewer Software (x1), PDZK-P1 XDCAM Transfer Software (x1)

*Viewable area, measured diagonally.

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Features and specifications are subject to change without notice. All non-metric weights and measurements are approximate.

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Caution: Federal (USA) law restricts this device to sale by or on the order of a physician or other appropriately licensed medical professional.

Caution: See product labeling for indications, contraindications, warnings, cautions and directions for use.

ME-PDW75MD

Print Media



PFD-50DLA Media



PFD-23A Media

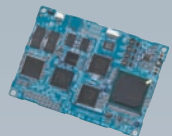


PDW-75MD
Back Panel

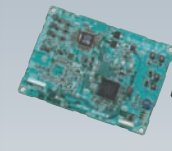
Optional Accessories



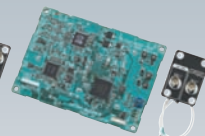
PDBK-101
Network Board



PDBK-102
MPEG-TS
In/Out Board



PDBK-103
HD Analog
Input Board



PDBK-104
SD Input
Up-converter Board

Only one of the PDBK-102, 103, 104 boards can be installed at any one time.

SONY

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