



SONY[®]

Medical Systems



PDW-70MD

PDW-70MD

1080i HD Video Recorder

The PDW-70MD XDCAM HD is an optical based HD video recorder designed for medical applications. The device records high-definition video in 1440 x 1080i resolution, revealing extremely clear images and accurate color reproduction. The new compact HD recorder can store up to two hours of high definition video on one 23 gigabyte disc and can be positioned horizontally or vertically allowing easy integration into operating rooms and other medical environments.

- Record up to two hours of HD video on one PFD-23 disc
- Select desired bit rates of 35, 25, or 18 Mb/s depending on your requirements for picture quality and recording length
- 3.5-inch color LCD screen*, allows users to view recordings and simplifies setup
- Built-in down converter for a composite output
- Jog/Shuttle dial equipped for VTR-like operation
- HD-SDI Inputs and Outputs
- PFD-23 discs are completely sealed to help prevent scratches.
- Discs can be recorded and re-written 1,000 times** and played backed 10,000 times. Data life on the disc is more than 50 years.**

* Viewable area, measured diagonally

** Based on Sony testing.

PDW-70MD Specifications

Power Requirements	100 V to 240 V AC, 50/60Hz										
Power Consumption	70W										
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 (15 lb 6 oz)										
Dimensions (W x H x D)	307 x 100 x 411 mm (12 1/8 x 4 x 16 1/2 inches)										
Recording Format	<table border="1"> <tr> <td>Video</td> <td>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</td> </tr> <tr> <td>Proxy Video</td> <td>MPEG-4</td> </tr> <tr> <td>Audio</td> <td>4 ch or 2 ch, 16 bits/48 kHz</td> </tr> <tr> <td>Proxy Audio</td> <td>A-law (4 ch / 2 ch, 8 bit, 8 kHz)</td> </tr> </table>	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	Proxy Video	MPEG-4	Audio	4 ch or 2 ch, 16 bits/48 kHz	Proxy Audio	A-law (4 ch / 2 ch, 8 bit, 8 kHz)		
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Search Speed (In color)	<table border="1"> <tr> <td>Jog Mode</td> <td>±1 time normal speed</td> </tr> <tr> <td>Variable Speed mode</td> <td>±1 time normal speed ±20 times normal speed</td> </tr> </table>	Jog Mode	±1 time normal speed	Variable Speed mode	±1 time normal speed ±20 times normal speed						
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Signal Inputs/Outputs											
Analog Reference Input	BNC x 2 (including loop through), HD Tri-level sync or SD composite sync (0.3 Vp-p/75 Ω/sync negative)										
Analog Composite Input (Option: PDBK-104)	BNC x 1, RS-170M										
Analog HD Composite 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										
Digital Audio Input	XLR x 2 (Channel Selectable), +4/0/-3/-6 dBu (selectable), 10 kΩ, 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/75Ω/sync negative), RCA-pin x 1, (1.0 Vp-p/75Ω/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), 600Ω load, balanced										
Audio Monitor Output	RCA x 2(L, R, Mix), -6dBu, 47kΩ, unbalanced										
Headphone Output	Stereo phone jack, -14 dBu, 8Ω, 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, DV OUT 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										

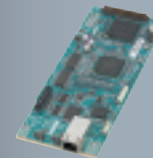


PDW-70MD
Back Panel

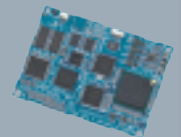


PFD-23 Media

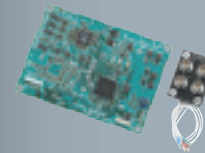
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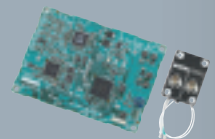
PDBK-101
Network Board



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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ME-PDW70MD