

PDW-F75

XDCAM HD Professional Disc recorder with multiple interfaces



Overview

The PDW-F75 is designed to place XDCAM HD at the heart of any existing infrastructure - it can as easily be connected to a composite analogue world as a digital file-based workflow.

At the touch of a button, the PDW-F75 can up or downconvert any input/output signal in real-time with complete transparency. It is as easy to plug in an entry-level DV camcorder as a top-of-the-range HDCAM VTR.

The PDW-F75 features a comprehensive array of interfaces as standard.

Using either the built-in LCD screen or a monitor, you have full access to all the benefits of the advanced XDCAM workflow with Scene Selection, Thumbnail operations and high-speed file-based editing.

Enhanced Productivity

No matter how you work, the PDW-F75 offers productivity improvements impossible with tape-based media:

- As soon as you insert a Professional Disc, the PDW-F75 will display a thumbnail index of each recorded scene either on a monitor or the built-in LCD screen
- Any scene can be accessed instantly with no time-

- wasted due to fastforwarding/rewinding
- No need to worry about accidentally overwriting precious content
- 'Essence Marks' can be reviewed and edited to identify critical scenes
- Cut edit content on the deck itself - no need for a PC!
- Import proxy files onto your PC at high speed for faster browsing and editing
- Smart import only the full resolution content you require faster than real-time
- Up to four and a half hours recording at 18Mb/s MPEG HD, with Dual Layer Professional Discs
- Built-in high quality 16:9 colour screen
- SDI and HD-SDI output with audio embedded
- Digital Audio AES-EBU output
- TC IN/OUT

Compatibility with today and tomorrow's workflow

The PDW-F75 is built around support for existing standards such as DV/DVCAM and open standards like MXF so you've got the maximum flexibility to use it just the way you want.

- Stay with DV/DVCAM format to work with existing non-linear editors
- HD-SDI, SDI, i.Link, analogue video, analogue/digital audio interfaces for connectivity to a wide range of editing systems
- i.Link File Access Mode (FAM) interface for high-speed, file-based connectivity to a PC
- Optional network interface for sharing content on a standard IT-based network
- i.LINK TS option for easy connectivity to HDV
- MXF open standard ensures maximum compatibility with new generation NLEs

- Long-term accessibility - storing content as files means you will always be able to access data in the future

Smarter, Faster Archiving

You don't need an expensive IT-storage system to revolutionise the way you store, retrieve and manage your archive material. While Professional Discs costs the same as tape, they're a true high-speed, non-linear media with a wealth of advanced meta-data automatically generated in camera.

- Import metadata and/or low resolution proxies onto your PC hard drive for a smart, searchable mirror of your high resolution archive
- Locate , watch and even edit proxy clips quickly using fast search of meta data, then instantly locate the archived high resolution content
- Non-linear media means faster, more reliable access to valuable archive content
- Professional Discs will retain information for 50 years in normal conditions
- Because information is stored as data files, there's no worries about video standards not being around in years to come

Features

This Sony professional deck has been designed to provide the very best features at the very best price - there's no need to compromise on quality, functionality or results!

Real-time SD output

Quick and Slow Motion Support

HD 1080 Recording at Selectable Frame

High-quality Audio Recording

File-based Disc Recording

Advanced Scene Selection Functionality

Analogue-like Jog Audio

High-quality Slow-motion

High Level of Reliability

Comprehensive interfaces

Additional features

Specifications

General

Power Requirements	AC 100 V to 240 V, 50/60 Hz
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Power Consumption	70 W
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Operating Temperature	5°C to 40°C 42°F to 104°F
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Storage Temperature	-20°C to +60°C -4°F to +140°F
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Humidity	20% to 90% (relative humidity)
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Mass	7.2 kg 15 lb 6 oz
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Dimensions (W x H x D)	307 x 100 x 411 mm (excluding protrusions)
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*1	12 1/8 x 4 x 16 1/2 inches (excluding protrusions)
Recording/Playback Format (Video)	<p>MPEG HD:</p> <ul style="list-style-type: none"> - HQ mode (VBR, maximum bit rate 35 Mbps) - SP mode (CBR, 25 Mbps) - LP mode (VBR, maximum bit rate 18 Mbps) <p>DVCAM *2 *3 (CBR, 25 Mbps)</p>
Recording/Playback Format (Audio)	<p>MPEG HD: 4 ch/16 bits/48 kHz or 2 ch/16 bits/48 kHz</p> <p>DVCAM: 4 ch/16 bits/48 kHz</p>
Recording/Playback Format (Proxy Video)	MPEG-4
Recording/Playback Format (Proxy Audio)	A-law (4 ch/8 bits/8 kHz)
Recording/Playback	<p>35 Mbps, 4-ch audio: More than 145 min (PFD50DLA), More than 65 min (PFD23A)</p> <p>35 Mbps, 2-ch audio: More than 150 min (PFD50DLA), More than 68 min (PFD23A)</p> <p>25 Mbps, 4-ch audio: Approx. 190 min (PFD50DLA), Approx. 85 min (PFD23A)</p> <p>25 Mbps, 2-ch audio: Approx. 200</p>

Time (MPEG HD)	min (PFD50DLA), Approx. 90 min (PFD23A) 18 Mbps, 4-ch audio: More than 248 min (PFD50DLA), More than 112 min (PFD23A) 18 Mbps, 2-ch audio: More than 265 min (PFD50DLA), More than 122 min (PFD23A)
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Recording/Playback Time (DVCAM)	25 Mbps: Approx. 185 min (PFD50DLA), Approx. 85 min (PFD23A) *2 *3
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Search Speed Range (Shuttle Mode)	-20 times to +20 times normal speed
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Search Speed Range (Variable Mode)	-1 time to +2 times normal speed
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Search Speed Range (Jog Mode)	-1 time to +2 times normal speed
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Media Drive

Media Type	Professional Disc Drive (x1)
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Input/Output

BNC (x2) (including loop-through),

Reference Input	HD Tri-level sync (0.6 Vp-p/75 Ω/negative) or SD blackburst/composite sync (0.286 Vp-p/75 Ω/negative)
Analog Composite Input	(Option: PDBK-104 *3) BNC (x1), 1.0 Vp-p/75 Ω/negative, SMPTE 170
HD Composite Input	(Option: PDBK-103 *3) BNC (x4), Y/Pb/Pr/(Sync) or G/B/R/(Sync)
HD-SDI Input	BNC (x2), SMPTE 292M (w/embedded audio)
SD-SDI Input	(Option: PDBK-104 *3) BNC (x1), SMPTE 259M (w/embedded audio)
Analog Audio Input	XLR-type 3-pin (female) (x2) (channel selectable), +4/0/-3/-6 dBu (selectable), 10 kΩ, balanced
Digital Audio Input (AES/EBU)	BNC (x2), 4 ch (2 ch each, 1/2 ch and 3/4 ch), AES-3id-1995
Timecode Input	BNC (x1), SMPTE timecode, 0.5 Vp-p to 18 Vp-p/3.3 kΩ/unbalanced
Analog Composite Output	BNC (x1), (1.0 Vp-p/75 Ω/sync negative), character On/Off Phono jack (x1), (1.0 Vp-p/75 Ω/sync negative)

HD-SDI Output	BNC (x2), SMPTE 292M (w/embedded audio) character ALL ON/OFF/HD-SDI 2 only
SD-SDI Output	BNC (x1), SMPTE 259M (w/embedded audio) character ALL ON/OFF/SDI only
Monitor	D-sub 15-pin (x1), (G/B/R or Y/Pb/Pr)
Analog Audio Output	XLR-type 3-pin (male) (x2) (channel selectable), +4/0/-3/-6 dBu (selectable), 600 Ω , Lo-z, balanced
Analog Audio Monitor	Phono jack (x2) (L, R, Mix), -6 dBu, 47 k Ω , unbalanced
Digital Audio Output (AES/EBU)	BNC (x2), 4 ch (2 ch each, 1/2 ch and 3/4 ch), AES-3id-1995
Headphone Output	JM-60 Stereo phone jack (x1), -14 dBu, 8 Ω , unbalanced
Timecode Output	BNC (x1), SMPTE timecode, 2.2 Vp- p \pm 3.0 dB/600 Ω /unbalanced
i.LINK	IEEE 1394 6-pin (x1)* AV/C (DV) IN/OUT, File Access Mode, HDV TS(1080i) (selectable)

*Optional PDBK-102 is required for HDVIN/OUT. *3

Ethernet	(Option: PDBK-101) RJ-45 (x1), 1000BASE-T: IEEE 802.3ab, 100BASE-TX: IEEE 802.3u, 10BASE-T: IEEE 802.3
RS-232C	D-sub 9-pin (male) (x1)
Control	Mini jack 4-pin (x1), for RM-LC2
Remote Input (9-pin)	D-sub 9-pin (female) (x1), RS-422A
Maintenance	Memory Stick (x1)
AC Input	(x1), 100 V to 240 V, 50/60Hz

Video Performance

Sampling Frequency	Y: 74.25 MHz, R-Y/B-Y: 37.125 MHz
Quantization	8 bits/sample
Error Correction	Reed Solomon Code

Processor Adjustment Range

Video Level	-3 dB to +3 dB
Chroma Level	-3 dB to +3 dB

Set Up/Black Level	-30 IRE to +30 IRE/-210 mV to +210 mV
Chroma Phase	-30° to +30°
System Sync Phase	-3 μs to +3 μs
System SC Phase	-200 ns to +200 ns

Audio Performance

Sampling Frequency	48 kHz
Quantization	16 bits
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 1 kHz)
Headroom	20/18/16/12 dB (selectable)

Other Equipment

Built-in Display	3.5-inch type color LCD monitor
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Supplied Accessories

Operation manual (1)

Supplied Accessories	Installation manual (1) XDCAM Application Software CD-ROM (1)
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Notes

Note	<p>[*1] The values for dimensions are approximate.</p> <p>[*2] Optional PDBK-104 is required for DVCAM recording.</p> <p>[*3] Only one of the PDBK-102, PDBK-103 or PBDK-104 boards can be installed at any one time.</p>
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Gallery

