

## 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"> <li>- HQ mode (VBR, maximum bit rate 35 Mbps)</li> <li>- SP mode (CBR, 25 Mbps)</li> <li>- LP mode (VBR, maximum bit rate 18 Mbps)</li> </ul> <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 $\Omega$ , Lo-z, balanced
Analog Audio Monitor	Phono jack (x2) (L, R, Mix), -6 dBu, 47 k $\Omega$ , 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 $\Omega$ , unbalanced
Timecode Output	BNC (x1), SMPTE timecode, 2.2 Vp- p $\pm$ 3.0 dB/600 $\Omega$ /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

