

XDCAM HD Decks Specifications

General		PDW-F75 Recorder	PDW-F30 Viewer	
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 (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	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) 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: 4 ch, 16 bit/48 kHz	—	
	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),DVCAM (CBR,25 Mb/s)		
	Proxy Video	MPEG-4		
	Audio	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	DVCAM	PFD50DLA (50GB)** and PFD23A (23.3GB)		
		185 minutes (Dual Layer)	85 minutes	
	MPEG HD	HQ, 35Mb/s VBR	145 minutes(4-ch audio) (Dual Layer) 150 minutes(2-ch audio) (Dual Layer)	65 minutes(4-ch audio) (Single Layer only) 68 minutes(2-ch audio) (Single Layer only)
		SP, 25 Mb/s VBR	190 minutes(4-ch audio) (Dual Layer) 200 minutes(2-ch audio) (Dual Layer)	85 minutes(4-ch audio) (Single Layer only) 90 minutes(2-ch audio) (Single Layer only)
		LP, 18Mb/s VBR	248 minutes(4-ch audio) (Dual Layer) 265 minutes(2-ch audio) (Dual Layer)	112 minutes(4-ch audio) (Single Layer only) 122 minutes(2-ch audio) (Single Layer only)
Signal Inputs				
Search speed (in colour)	Jog mode	±1 time normal speed		
	Variable Speed mode	-1 to +2 times normal speed ±20 times normal speed		
Analogue reference input	Shuttle mode	BNC x2(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)		BNC x1, RS-170M		
Analogue HD component input (option: PDBK-103)		BNC x4, Y/Pb/Pr/(Sync) or G/B/R/(Sync)		
HD-SDI input		BNC x1, SMPTE 292M		
SD-SDI input (option: PDBK-104)		BNC x1, SMPTE 259M		
Analogue audio input		XLR x2 (channel selectable), +4/0/-3/-6 dBu (selectable),10 kΩ, balanced		
Digital audio input		AES/EBU, BNC x2, 4 channels		
Timecode input		BNC x1, SMPTE Time code		
Signal Outputs				
Analogue composite video output		BNC x1, (1.0 Vp-p/75 Ω/sync negative), RCA-pin x1,(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		BNC x2, SMPTE 292M		
Audio output (CH-1/CH-2)		BNC x1, SMPTE 259M		
Analogue audio output		XLR x2 (channel selectable), +4/0/-3/-6 dBu (selectable), 600 Ω load, balanced		
Audio monitor output		RCA x2 (L, R, Mix), -6dBu, 47 kΩ, unbalanced		
Headphone output		Stereo phone jack, -14dBu, 8 Ω, unbalanced		
Digital audio output		AES/EBU, BNC x2, 4 channels		
Timecode output		BNC x1, SMPTE Timecode		
Other Inputs/ Outputs				
i.LINK		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		
CONTROL		D-sub 9-pin x 1		
Video performance				
Sampling frequency		Y: 74.25 MHz, R-Y/B-Y: 37.125 MHz		
Quantisation		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 : ±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		
System sync phase		±3 μs		
System sync phase (fine)		±200 ns		
Audio performance				
Sampling frequency		48 kHz		
Quantisation		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)		
Supplied accessories				
Operation manual (x1),Vertical installation stand (x1), Infrared remote commander (x1), PDZ-1 Proxy Browsing Software (x1), Proxy Viewer Software (x1)				

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

** The PFD50DLA disc cannot be used in the PDW-F30 deck.