

PDW-F800

XDCAM HD422 Camcorder

PDW-F1600

XDCAM HD422 Recording Deck

Sony's top-of-the-line XDCAM® HD422 Series is being embraced around the world for its file-based recording capability utilizing high-capacity and highly reliable Professional Disc™ media. Thanks to its newly developed MPEG HD422 codec, the XDCAM HD422 Series provides high quality video and audio recording capabilities, with an image resolution of 1920 x 1080 and eight-channel 24-bit uncompressed audio.

Now, Sony is proud to announce two new powerful additions to the series - the PDW-F800 camcorder and the PDW-F1600 deck. They both offer multi-format recording flexibility as standard - including SD recording and a frame rate of 23.98P in 1080 mode.

The PDW-F800 camcorder builds on the features of the PDW-700 camcorder. Enhanced functions, such as Slow & Quick Motion (over-crank and under-crank recording), make the PDW-F800 ideal for cinema and TV drama productions, as well as ENG applications.

The foundation of the PDW-F1600 deck incorporates the features of the PDW-HD1500, and acts as more than just a file-based recording deck. With its insert/assemble editing capability, it can be used as a recorder in a linear editing system - just like a conventional VTR.









For a new Era of File-based HD Production – the PDW-F800 and PDW-F1600

Common Features of the PDW-F800 and the PDW-F1600

- MPEG HD422 codec
 - HD 1920 x 1080 and 1280 x 720 recording
 - High quality 24-bit eight channel uncompressed audio recording*¹

MP€G HD422

■ Wide choice of recording modes: including 23.98P format recording and playback as standard

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■ Supports a choice of HD (MPEG HD*2) and SD (MPEG IMX/DVCAM[™]) recording modes as standard



- Built-in up-/down-conversion (HD/SD) and cross-conversion (1080/720) system
- Dual-layer (50GB, PFD50DLA) and single-layer (23.3GB, PFD23A) Professional Disc media support







PFD50DLA

PFD23A

- File-based search operation
 - Thumbnail search function
 - · Expand function
 - Clip Filtering
- Proxy Data (1.5 Mb/s for video and 0.5 Mb/s for audio) and metadata recording
- Scene Selection: simple EDL-based cuts-only editing
- Metadata recording: UMID, Extended UMID, EssenceMark™ (Shot Mark), Clipflag

- Easy metadata input via USB keyboard*³ or software keyboard
- i.LINK^{™ *4} interface (File Access Mode)
- Ethernet interface (PDW-F800: 100Base-TX, PDW-F1600: 1000Base-T)
- FTP client capability: allows file transfer via Ethernet without a PC
- Clip Continuous REC mode*5
- Single Clip Playback: allows users to play back just one selected clip
- Data file recording by User Data folder: allows recording of any file type onto Professional Disc media
- Local language in clip/disc properties: Chinese, German, French, Korean, Japanese, Russian, Spanish, and more



Local Language Support

- *1: Audio specifications vary according to product and recording mode (up to four channels with the PDW-F800).
- *2: 18 Mb/s mode is playback only.
- *3: Some keyboards can not be used. Please refer to the supplied manual for details.
- *4: i.LINK is a Sony trademark used only to designate that a product is equipped with an IEEE 1394 connector. Not all products with an i.LINK connector may communicate with each other. Please refer to the documentation that comes with any device having an i.LINK connector for information on compatibility, operating conditions, and proper connection.
- *5: PDW-F1600 must be remotely controlled via RS-422A interface, or during Trigger REC mode via an HD-SDI interface.

PDW-F800 & PDW-F1600 Recording/Playback Specifications

Mode		Bit Rate (Mb/s)	Audio Bits	Audio Channels	Y/C Sampling	Frame Frequency	Recording Time (Unit: Minutes)	
(Codec)	Number of Pixels						PFD23A 23.3 GB	PFD50DLA 50 GB
MPEG HD422 (MPEG-2 4:2:2P@HL)	1920 x 1080	- 50	24	8*2	4:2:2	59.94i, 50i, 29.97P, 25P, 23.98P	Approx. 43	Approx. 95
	1280 x 720					59.94P, 50P, 23.98P (Pull-down)	Approx. 43	Approx. 95
MPEG HD (MPEG-2 MP@HL)	1440 x 1080	35	16	4	4:2:0	59.94i, 50i, 29.97P, 25P, 23.98P	more than 65	more than 145
				2*1			more than 68	more than 150
		25		4			Approx. 85	Approx. 190
				2*1			Approx. 90	Approx. 200
		18*1		4*1			more than 112	more than 248
				2*1			more than 122	more than 265
	1280 x 720	35	- 16	4	4:2:0 59	59.94P, 50P, 23.98P (Pull-down)	more than 65	more than 145
		25	10	4			Approx. 85	Approx. 190
MPEG IMX (MPEG-2 4:2:2P@ML)	720 x 480 (NTSC) / 720 x 576 (PAL)	50	24	4	4:2:2	59.94i, 50i	Approx. 45	Approx. 100
			16	8*2				
		40	24	4			Approx. 55	Approx. 120
			16	8*2				
		30	24	4			Approx. 68	Approx. 150
			16	8*2				
DVCAM	720 x 480 (NTSC) / 720 x 576 (PAL)	25	16	4	4:2:0 (NTSC) / 4:1:1 (PAL)	59.94i, 50i	Approx. 85	Approx. 185

^{*1:} Playback only. *2: Up to 4 ch with PDW-F800.

PDW-F800 Features



■ Three 2/3-inch-type Power HAD™ FX CCDs, each with 1920 x 1080 effective pixels

Power HAD FX

- High quality four channel 24-bit audio recording*1
- Slow & Quick Motion function (over-cranking and under-cranking shooting)
 - 23.98P: 1P to 48P in 1P increments (24x-quick to 1/2x-slow motion)
 - 25P: 1P to 50P in 1P increments (25x-quick to 1/2x-slow motion)
 - 29.97P: 1P to 59.94P in 1P increments (30x-quick to 1/2x-slow motion)
- Image Inverter for use with cinema lens adaptors
- Variety of gamma settings
 - HyperGamma: inherited from Sony's well-proven CineAlta camcorders



PDW-F800 with cinema lens

- User Gamma: users can set their desired gamma curve*2
- Optical CC filters and ND filters
 - CC: A.Cross, B.3200K, C.4300K, D.6300K
 - ND: 1.Clear, 2.1/4ND, 3.1/16ND, 4.1/64ND
- Automatic Lens Aberration Compensation*3
- Focus Assist bar graph display on viewfinder
- Auto Tracing White Balance & Hold mode
- Output markers such as SkinG, Safety, Aspect, and Center on HD-SDI OUTPUT
- Proxy Data recording on USB memory*4
- Builds on the features of the well-proven PDW-700 camcorder
 - 3.5-inch*5 LCD Slow Shutter Interval Recording
 - Picture Cache Recording (up to 30 seconds) and Disc Exchange Cache
 Shock-less Gain Control
 - Digital wireless microphone system (Option: DWR-S01D)
 - DVB-ASI output (Option: HDCA-702)
 - Pool-feed operation (Option: CBK-HD01 (HD/SD-SDI), CBK-SC02 (Composite))
 - Remote Control (Option: RM-B750/B150, MSU-950/900 and RCP-920/921/750751)
 - · And much more
- *1: Audio specifications vary according to by recording mode (up to four channels)
- *2: Using the CVP File Editor Software, available to download from the Sony website. User Gamma files can be imported to the PDW-F800 by Memory Stick®/Memory Stick PRO™/Memory Stick PRO Duo™.
- *3: Works only with applicable lenses. Please contact lens manufacturers for details.
- *4: Please contact your nearest Sony office for details of the applicable USB memory.
- *5: Viewable area measured diagonally.

PDW-F1600 Features



- Dual optical pick-up for higher-speed file transfer (approx. 220 Mb/s*1) via Gigabit Ethernet interface
- High quality eight channel 24-bit audio recording*2
- Suitable for both in-house and field operation
 - Linear editing*3 using RS-422A interface



Linear Editing Configuration Example

Player: PDW-HD1500 Recorder: PDW-F1600 Controller: RM-280

- Assemble edit
 Audio/Video Insert
- A/V split edit
- Audio insert input for five to eight channels through four AES/EBU inputs
- Input audio channel mix capability: allows several audio channels to be mixed into a desired channel
- Native 23.98P and pull-down (59.94i) playback
- Builds on the features of the well-proven PDW-HD1500 deck
 - 4.3-inch*4 LCD
 - Built-in speaker
 - AC, DC or battery powered
 - Picture Cache Recording (up to 30 seconds) and Disc Exchange Cache
 - Trigger REC function (synchronized recording with compatible camcorders*5)
 - Input and output of an HDV™-compatible stream in 1080i/720P format (Option: PDBK-201)
 - Compatible with Sony's PDJ-C1080 and PDJ-A640 XDCAM carts
 - · And much more
- *1: When transferring an MPEG HD422 clip.
- *2: Audio specifications vary according to recording mode.
- *3: Not available in MPEG HD (35/25/18 Mb/s) modes.
- *4: Viewable area measured diagonally.
- *5: PDW-F800/700, HDW-650/730/750 series, HDW-790 and HDW-F900R camcorders.

SPECIFICATIONS

General		PDW-F800					
00.10.0.		Approx. 9 lb 8 oz (4.3 kg) (w/o options),					
Weight		Approx. 9 lb 8 oz (4.3 kg) (w/o options), Approx. 13 lb 4 oz (6.0 kg) (w/VF, Mic, Disc, BP-GL95 battery)					
Power requirements		DC 12 V +5.0 V/-1.0 V					
Power consumption		Approx. 40 W (while recording, w/o options, color LCD On)					
·		Approx. 44 W (while recording, w/viewfinder, color LCD On, manual lens, microphone)					
Operating temperature		+23 to 104 °F (-5 to +40 °C)					
Storage temperature		-4 to +140 °F (-20 to +60 °C)					
Continuous operating time		10 to 90% (relative humidity)					
Continuous operating time Recording/playback time		Approx. 120 min. w/BP-GL95 battery MPEG HD422 mode: Approx. 95 min. with PFD50DLA. Approx. 43 min. with PFD23A.					
Inputs/Outputs		MPEG HD422 Mode: Approx. 95 Min. Will PPD50DLA. Approx. 45 Min. Will PPD25A.					
		BNC x 1*1 HD-SDI: SMPTE 292M (w/embedded audio)					
SDI IN		(switchable) SD-SDI: SMPTE 259M (w/embedded audio)					
GENLOCK IN		BNC x 1, 1.0 Vp-p, 75Ω, unbalanced (Composite input*2 shares the same connector)					
AUDIO IN		CH-1/CH-2: XLR 3-pin (female) x 2, Line / Mic / Mic+48V / AES/EBU selectable					
MIC IN		XLR 5-pin (female, stereo) x 1					
TC IN		BNC x 1, 0.5 to 18 Vp-p, 10 Ω					
		1 HD-SDI: SMPTE 292M (w/embedded audio) SD-SDI: SMPTE 259M (w/embedded audio)					
SDI OUT		RNC v 2					
		2 (character On/Off) 4D-SDI: SMPTE 292M (w/embedded audio) SD-SDI: SMPTE 259M (w/embedded audio)					
		BNC x 1 HD Y					
TEST OUT		(switchable) SD Composite (character On/Off)					
AUDIO OUT		XLR 5-pin (male, stereo) x 1					
TC OUT		ALK 5-pin (ridie, siereo) x 1 BNC x 1, 1.0 Vp-p, 75Ω					
EARPHONE		Mini-jack x 2 (front: manaural, rear: stereo/monoral)					
CAMERA ADAPTOR		50-pin x 1					
i.LINK		6-pin x 1*3, File Access Mode					
ETHERNET		RJ-45 x 1, 100Base-TX: IEEE802.3u, 10Base-T: IEEE802.3					
LENS		12-pin					
REMOTE		8-pin					
LIGHT		2-pin, DC 12 V, max. 50 W					
DC IN		XLR 4-pin (male) x 1, 11 to 17 V					
DC OUT		4-pin x 1, 11 to 17 V, 0.5 A max (for wireless microphone receiver)					
MEMORY STICK USB		x 1 (for camera setup files) x 1					
Audio Perform	anco	X I					
Frequency respons		20 Hz to 20 kHz, +0.5 dB/-1.0 dB					
Dynamic range	30	More than 93 dB					
Distortion		Less than 0.08% (at 1 kHz, reference level)					
Crosstalk		Less than -70 dB (at 1 kHz, reference level)					
Wow & flutter		Below measurable limit					
Headroom		12/16/18/20 dB (selectable)					
Camera Section							
Pickup device		3-chip 2/3-inch type HD Power HAD FX CCDs					
Effective picture elements		1920 x 1080					
Optical system		F1.4 prism					
Built-in optical CC ND		A: Cross, B: 3200K, C: 4300K, D: 6300K 1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND					
illiera	1080/59.94i	1/100, 1/125, 1/250, 1/500, 1/1000. 1/2000, ECS, SLS					
	1080/50i	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000, ECS, SLS					
	1080/29.97P						
Chulleranaad	1080/25P	1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, ECS, SLS					
Shutter speed	1080/23.98P	1/32,1/48,1/50,1/60,1/96,1/125,1/250,1/500,1/1000,1/2000, ECS, SLS					
	720/23.98P	1/32,1/48,1/50,1/60,1/96,1/125,1/250,1/500,1/1000,1/2000, ECS, SLS					
	(Pull-down)						
Lens mount	Slow Shutter	1- to 8-, and 16-frame accumulation*4					
	59.94i	2/3-inch-type 48 bayonet mount					
Sensitivity (2000 lx, 59.94i 89.9% reflectance) 50i		F12					
Minimum illuming		Approx. 0.016 lx (F1.4 lens, +42 dB, with 16-frame accumulation)					
Gain selection		-6, -3, 0, 3, 6, 9, 12, 18, 24, 30, 36, 42 dB					
Smear level		-135 dB (typical)					
S/N ratio		59 dB (54 dB w/o NS)					
S/N ratio		45% or more at 27.5 MHz					
Modulation depth							
Modulation depth Horizontal resolution	on	1000 TV lines or more (1920 x 1080i mode)					
Modulation depth Horizontal resolution Registration	on						
Modulation depth Horizontal resolution Registration	on	1000 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens)					
Modulation depth Horizontal resolution Registration Viewfinder		1000 TV lines or more (1920 x 1080i mode)					
Modulation depth Horizontal resolution Registration Viewfinder		1000 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mc	pnitor	1000 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens)					
S/N ratio Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mc Supplied Acce	pnitor	1000 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mc	pnitor	1000 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belt (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1)					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mc	onitor essories	1000 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mac Supplied Acce	onitor essories	1000 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belt (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1)					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mac Supplied Acce	onitor essories	100.0 TV lines or more (1920 x 10801 mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belf (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1 Microphone cable (for converting 3-pin to 5-pin) (x1) PFD50DLAPFD23A Professional Disc CBK-HD01 HD/SD-SDI Input Board					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mac Supplied Acce	onitor essories	1000 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belt (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1) Micorphone cable (for converting 3-pin to 5-pin) (x1) PFD50DLA/PFD23A Professional Disc CBK-HD01 HD/SD-SDI Input Board CBK-SC02 Analog Composite Input Board,					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mac Supplied Acce	onitor essories	1000 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belt (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1 Micorphone cable (for converting 3-pin to 5-pin) (x1) PFD50DLA/PFD23A Professional Disc CBK-HD01 HD/SD-SDI Input Board CBK-SD02 Analog Composite Input Board, HDVF-C30WR/HDVF-C35W/HDVF-20A/HDVF-200 Viewfinder					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mac Supplied Acce	onitor essories	100.0 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belt (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1 Microphone cable (for converting 3-pin to 5-pin) (x1) PFD50DLA/PFD23A Professional Disc CBK-HD01 HD/SD-SDI Input Board CBK-S02 Analog Composite Input Board, HDVF-C30WR/HDVF-C3SW/HDVF-20A/HDVF-20 Viewfinder DWR-S01 DWRR-855S Wireless Microphone Receiver					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mac Supplied Acce	onitor essories	1000 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belt (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1) Micorphone cable (for converting 3-pin to 5-pin) (x1) PFD50DLA/PFD23A Professional Disc CBK-HD01 HD/SD-SDI Input Board CBK-SC02 Analog Composite Input Board, HDVF-C30WRHDVF-C35WHDVF-20A/HDVF-200 Viewfinder DWR-S01DWRR-855S Wireless Microphone Receiver ECM-6805/ECM-678/ECM-678 Knotyn-79 Electret Condenser Microphone					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mac Supplied Acce	onitor essories	100.0 Y lines or more (1920 x 10801 mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belt (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1 Micorphone cable (for converting 3-pin to 5-pin) (x1) PPD50DLA/PFD23A Professional Disc CBK-HD01 HD/SD-SDI Input Board CBK-S002 Analog Composite Input Board, LDVF-C30WHDVF-C30WHDVF-203WHDVF-203WHDVF-204HD					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mac Supplied Acce	onitor essories	100.0 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belt (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1 Micorphone cable (for converting 3-pin to 5-pin) (x1) PFD50DL/PFD23A Professional Disc CBK-HDD1 HD/SD-SDI Input Board CBK-SC02 Analog Composite Input Board, HDVF-C30WR/HDVF-C3SW/HDVF-20A/HDVF-20V Viewfinder DWR-S01 DWRR-855S Wireless Microphone Receiver ECM-680S/ECM-678/ECM-674 Shotgun-type Electrat Condenser Microphone BP-G195/BP-GL65/BP-180S/BP-L60S Litium-ion Battery Pack BC-1500/BC-11 60/BC-170 Battery Charger					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mac Supplied Acce	onitor essories	1000 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belt (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1) Micorphone cable (for converting 3-pin to 5-pin) (x1) PFD50DLA/PFD23A Professional Disc CBK-HD01 HD/SD-SDI Input Board CBK-SC02 Analog Composite Input Board CBK-SC02 Analog Composite Input Board, HDVF-C30WRHDVF-C35WHDVF-20A/HDVF-200 Viewfinder DWR-S01DWRR-855S Wireless Microphone Receiver ECM-680S/FC0M-678/ECM-674 Shotgun-type Electret Condenser Microphone BP-G19/SIP-G16/SIP-L80S/BP-L60S Litium-ion Battery Pack BC-L500/BC-L16/BC-L70 Battery Charger AC-DN10/AC-DN2B AC Adaptor					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mac Supplied Acce	onitor essories	100.0 Y lines or more (1920 x 10801 mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belf (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1 Microphone cable (for converting 3-pin to 5-pin) (x 1) PFD50DLA/PFD23A Professional Disc CBK-HD01 HD/SD-SDI Input Board CBK-SC02 Analog Composite Input Board, HDVF-C30/HDVFD-C30/HDVF-20A/HDVF-20D Viewfinder DWR-S01D/WRR-855S Wireless Microphone Receiver ECM-6805/ECM-678/ECM-674 Shotgun-type Electret Condenser Microphone BP-G195/BP-G165/BP-LB05/BP-L60S Litturn-lon Battery Pack BC-L500/BC-L1 60/BC-L70 Battery Charger AC-DN10/AC-DN2B AC Adaptor RM-B750/RM-B150 Remote Control Unit					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mac Supplied Acce	onitor essories	1000 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belt (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1 Microphone cable (for converting 3-pin to 5-pin) (x1) PFD50DLAPFD23A Professional Disc CBK-HD01 HD/SD-SDI Input Board CBK-S020 Analog Composite Input Board, HDVF-C30WR/HDVF-C3SW/HDVF-20A/HDVF-20V Viewfinder DWR-S01 DWRR-855S Wireless Microphone Receiver ECM-680S/ECM-678/ECM-674 Shofqun-type Electret Condenser Microphone BP-GL95/BP-GL65/BP-LB0S/BP-L60S Litium-ion Battery Pack BCL-500/BC-1 60/BC-L70 Battery Charger AC-DN10/AC-DN2B Ac Adaptor RM-B750/RM-B150 Remote Control Unit RCP-920/RCP-921/RCP-750/RCP-751 Remote Control Unit					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mac Supplied Acce	onitor essories	100.01 V lines or more (1920 x 10801 mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belt (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1 Micorphone cable (for converting 3-pin to 5-pin) (x1) PFD50DLA/PFD23A Professional Disc CBK-HD01 HD/SD-SD1 Input Board CBK-SC02 Analog Composite Input Board, HDVF-C30WHDVFD-C30WHDVF-20A/HDVF-200 Viewfinder DWR-S01 D/WRR-855S Wireless Microphone Receiver ECM-860S/ECM-678/ECM-674 Shoftun-for Battery Pack BC-L500/BC-L160/BC-L70 Battery Charger AC-DN10/AC-DN28 AC Adaptor RM-8750/RM-8150 Remote Control Unit RCP-920/RCP-921/RCP-750/RCP-751 Remote Control Unit MSU-900/MSU-950 Master Setup Unit					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mac Supplied Acce	onitor essories	1000 TV lines or more (1920 x 1080i mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belt (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1 Microphone cable (for converting 3-pin to 5-pin) (x1) PFD50DLAPFD23A Professional Disc CBK-HD01 HD/SD-SDI Input Board CBK-S020 Analog Composite Input Board, HDVF-C30WR/HDVF-C3SW/HDVF-20A/HDVF-20V Viewfinder DWR-S01 DWRR-855S Wireless Microphone Receiver ECM-680S/ECM-678/ECM-674 Shofqun-type Electret Condenser Microphone BP-GL95/BP-GL65/BP-LB0S/BP-L60S Litium-ion Battery Pack BCL-500/BC-1 60/BC-L70 Battery Charger AC-DN10/AC-DN2B Ac Adaptor RM-B750/RM-B150 Remote Control Unit RCP-920/RCP-921/RCP-750/RCP-751 Remote Control Unit					
Modulation depth Horizontal resolution Registration Viewfinder Built-in LCD Mac Supplied Acce	onitor essories	100.07 V lines or more (1920 x 1080l mode) 0.02% or less for entire screen area (excluding distortion due to lens) Option 3.5-inch*5 type color LCD monitor Shoulder belt (x 1), Operation manual (x 1), XDCAM Application Software CD-ROM (x 1 Microphone cable (for converting 3-pin to 5-pin) (x1) PFD50DLA/PFD23A Professional Disc CBK-HD01 HD/SD-SDI Input Board CBK-S022 Analog Composite Input Board, HDVF-C30/WHDVF-C30-WHDVF-203-WHDVF-200 Viewfinder DWR-S01D/WRR-855S Wireless Microphone Receiver ECM-680S/ECM-678/ECM-674 Shotgun-type Electret Condenser Microphone BP-G19/SPP-6165/BP-BL05/SPI-L050 Litium-ion Battery Pack BC-L500/BC-L160/BC-L70 Battery Charger AC-DN10/AC-DN28 A Caloptor AC-WH076/SPM-B150 Remote Control Unit RCP-920/RCP-921/RCP-750/RCP-751 Remote Control Unit MSU-900/MSU-950 Master Setup Unit HDCA-702 WFECTS Adaptor					

	PDW-F1600				
General					
Dimensions (W x H x D)	8 ³ / ₈ x 5 ¹ / ₄ x 15 ⁵ / ₈ inches (210 x 132 x 396 mm)				
Weight	Approx. 14 lb 5 oz (6.5 kg)				
Power requirements	100 V to 240 V AC, 50/60 Hz, 12 V DC				
Power consumption	AC: 80 W, DC: 65 W, SAVEMODE(DC): 55 W				
Operating temperature	+41 to 104 °F (+5 to +40 °C)				
Storage temperature	-4 to +140 °F (-20 to +60 °C)				
Humidity	25 to 90% (relative humidity)				
Recording/playback time	MPEG HD422 mode: Approx. 95 min. with PFD50DLA. Approx. 43 min. with PFD23A.				
Jog mode	-1 to +1 time normal speed				
Search speed Variable speed Shuttle mode	-2 to +2 times normal speed -20 to +20 times normal speed				
F.Fwd/Rev	-35/+35 times normal speed				
Inputs/Outputs	-33/+33 lillies florifidi speed				
	BNC x 1 HD-SDI: SMPTE 292M (w/embedded audio)				
HDSDI IN	(switchable) SD-SDI: SMPTE 259M (w/embedded audio)				
	BNC x 2 (including loop through), HD Tri-level sync (0.6 Vp-p/75 Ω/negative)				
REF.VIDEO IN	or SD blackburst/composite sync (0.286 Vp-p/75 Ω/negative)				
ANALOG AUDIO IN	XLR 3-pin (female) x 2, +6 dBu, Hi-Z, balanced				
DIGITAL AUDIO (AES/EBU) IN 1/2, 3/4	BNC x 2, 4 ch (2 ch each, 1/2 ch and 3/4 ch), AES-3id-1995				
TIME CODE IN	BNC x 1, SMPTE time code, 0.5 to 18 Vp-p/3.3 kΩ/unbalanced				
HDSDI OUT 1	BNC x 1, SMPTE 292M (w/embedded audio)				
HDSDI OUT 2 (SUPER)	BNC x 1, SMPTE 292M (w/embedded audio), character On/Off				
SDSDI OUT 1	BNC x 1, SMPTE 259M (w/embedded audio)				
SDSDI OUT 2 (SUPER)	BNC x 1, SMPTE 259M (w/embedded audio), character On/Off				
COMPOSITE OUT 1	BNC x 1, 1.0 Vp-p/75 Ω/negative, SMPTE 170M				
COMPOSITE OUT 2 (SUPER)	BNC x 1, 1.0 Vp-p/75 Ω/negative, SMPTE 170M, character On/Off				
ANALOG AUDIO OUT	XLR 3-pin (male) x 2, +4 dBu, 600Ω, Lo-Z, balanced				
AUDIO MONITOR	XLR 3-pin (male) x 2, +4 dBu, 600Ω, Lo-Z, balanced				
DIGITAL AUDIO (AES/EBU) OUT 1/2, 3/4					
TIME CODE OUT	BNC x 1, SMPTE time code, 1.0 Vp-p/75 Ω/unbalanced				
PHONES	Stereophone-jack x 1				
	File Access Mode				
i.LINK S400	6-pin x 1*1 HDV*2 1080i/720P				
ETHERNET	RJ-45 x 1, 1000Base-T: IEEE802.3ab, 100Base-TX: IEEE802.3u, 10Base-T: IEEE802.5				
REMOTE (9P)	D-sub 9-pin (female) x 1, RS-422A				
VIDEO CONTROL	D-sub 9-pin (female) x 1, EIA RS-423				
AC IN	x 1, 100 to 240 V				
DC IN 12V	XLR 4-pin (male) x 1				
REMOTE	4-pin (female) x 1, DC 12 V, 7.5 W				
MAINTENANCE	USB x 2				
Video Performance					
Sampling frequency	Y: 74.25 MHz, Pb/Pr: 37.125MHz				
Quantization	8 bit/sample				
Compression	MPEG-2 4:2:2P@HL				
Composite output	Frequency response: 0.5 to 5.75 MHz +0.5 dB/-2.0 dB				
	S/N(Y): 53 dB or more Y/C delay: ± 20 ns or less K-factor (K2T): 1% or less				
Processor Adjustment Range					
Video level	-∞ to +3 dB				
Chroma level	-∞ to +3 dB				
Set up/black level	± 30 IRE/±210 mV				
Chroma phase	± 30 °				
System sync phase	± 15 µs				
System sync phase (fine)	0 to 400 ns				
Audio Performance	40.11				
Sampling frequency	48 kHz				
Quantization	24 bit				
Frequency response	20 Hz to 20 kHz +0.5 dB/-1.0 dB				
Dynamic range	90 dB or more				
Distortion	0.05% or less				
Distortion Headroom					
Distortion	0.05% or less 12/16/18/20 dB (selectable)				
Distortion Headroom Built-in LCD Monitor	0.05% or less				
Distortion Headroom	0.05% or less 12/16/18/20 dB (selectable) 4.3-inch*3 type color LCD monitor				
Distortion Headroom Built-in LCD Monitor Built-in Audio Speaker	0.05% or less 12/16/18/20 dB (selectable)				
Distortion Headroom Built-in LCD Monitor	0.05% or less 12/16/18/20 dB (selectable) 4.3-inch ⁻³ type color LCD monitor x 1, monaural				
Distortion Headroom Built-in LCD Monitor Built-in Audio Speaker	0.05% or less 12/16/18/20 dB (selectable) 4.3-inch*3 type color LCD monitor x 1, monaural Operation manual (x 1), installation manual (x 1),				
Distortion Headroom Built-in LCD Monitor Built-in Audio Speaker Supplied Accessories	0.05% or less 12/16/18/20 dB (selectable) 4.3-inch ⁻³ type color LCD monitor x 1, monaural				
Distortion Headroom Built-in LCD Monitor Built-in Audio Speaker	0.05% or less 12/16/18/20 dB (selectable) 4.3-inch*3 type color LCD monitor x 1, monaural Operation manual (x 1), Installation manual (x 1), XDCAM Application Software CD-ROM (x 1)				
Distortion Headroom Built-in LCD Monitor Built-in Audio Speaker Supplied Accessories	0.05% or less 12/16/18/20 dB (selectable) 4.3-inch*3 type color LCD monitor x 1. monaural Operation manual (x 1), Installation manual (x 1), XDCAM Application Software CD-ROM (x 1) PFD50DLA/PFD23A Professional Disc				
Distortion Headroom Built-in LCD Monitor Built-in Audio Speaker Supplied Accessories	0.05% or less 12/16/18/20 dB (selectable) 4.3-inch*3 type color LCD monitor x 1, monaural Operation manual (x 1), Installation manual (x 1), XDCAM Application Software CD-ROM (x 1) PFD5/DILA/PFD23A Professional Disc PD8K-201 MPEG TS IN/OUT Board				
Distortion Headroom Built-in LCD Monitor Built-in Audio Speaker Supplied Accessories	0.05% or less 12/16/18/20 dB (selectable) 4.3-inch*3 type color LCD monitor x 1. monaural Operation manual (x 1), Installation manual (x 1), XDCAM Application Software CD-ROM (x 1) PFD50DLA/PFD23A Professional Disc				
Distortion Headroom Built-in LCD Monitor Built-in Audio Speaker Supplied Accessories	0.05% or less 12/16/18/20 dB (selectable) 4.3-inch*3 type color LCD monitor x 1, monaural Operation manual (x 1), Installation manual (x 1), XDCAM Application Software CD-ROM (x 1) PFDSDULAPFD23A Professional Disc PDBK-201 MPEG TS INVOUT Board BKP-L551 Lithium-ion Battery Adaptor BP-GSPSBP-L603 Lithium-ion Battery Pack HKDV-900 Video Control Unit (Ver 2.00 or later)				
Distortion Headroom Built-in LCD Monitor Built-in Audio Speaker Supplied Accessories	0.05% or less 12/16/18/20 dB (selectable) 4.3-inch*3 type color LCD monitor x 1, monaural Operation manual (x 1), Installation manual (x 1), XDCAM Application Software CD-ROM (x 1) PFD50DLA/PFD23A Professional Disc PDBK-201 MPEGTS IN/OUT Board BKP-L551 Lithium-ion Battlery Adaptor BRP-L555 Lithium-ion Battlery Adaptor BRP-L555 Lithium-ion Battlery Pack				

- *1:AV/C (DV) interface is NOT supported. *2: Requires optional PDBK-201 board. *3: Viewable area measured diagonally.

SONY

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^{*1).} Requires an optional CBK-HD01 board.

*2: Requires an optional CBK-SC02 board.

*3: AVC (DV) interface is NOT supported.

*4: Chy even numer of frame setting is available in 720 mode. Slow Shutter can not function with the Digital Extender.

*5: Viewable area measured diagonally.