

PDW-U4

XDCAM Professional Disc Drive Unit



Overview

Compact, high-performance XDCAM drive

Extending the benefits of Professional Disc to IT users, the PDW-U4 is a portable, easy to use drive that can be used with a PC or Mac to view media files (using free Sony software). It also offers full read/write access with compatible non linear editing systems. Succeeding the PDW-U1 and PDW-U2, the PDW-U4 supports four/three/two/single-layer XDCAM Professional Disc media. Used with four-layer media (write-once) it offers up to 128GB capacity on a single disc. 4-channel dual DCHS drive technology approximately doubles system performance compared with the PDW-U2.

Note: The PDW-U4 will be available from January 2021.

Features

Handles all XDCAM file formats

The PDW-U4 handles media files in XDCAM HD422, XDCAM HD and XDCAM SD formats. PC data files can also be recorded to a User Data folder on the same Professional Disc media.

Supports high capacity quad-layer Professional Discs

The PDW-U4 supports quad-layer write-once (PFD128QLW), triple-layer (PFD100TLA), dual-layer (PFD50DLA) and single-layer (PFD23A) Professional Discs, offering high capacity and new

workflow capabilities, with over four hours of recording at HD422 50 Mbps (using PFD128QLW).

High speed read/write

The PDW-U4 offers speeds 2.0x (read)* /1.7x (write) faster than the PDW-U2, thanks to the newly developed 2x DCHS (Dual Channel Head System).

*Media file writing performance depends on speed of PC proxy creation.

Direct PC access via USB

Files on Professional Disc can be accessed directly by a PC connected to the PDW-U4 via USB 3.2, 3.1, 3.0 or 2.0. USB 3.0 or higher is recommended to maximize performance.

USB power delivery

Connecting the PDW-U4 directly to a PC or Mac supporting USB power delivery (more than 20V 3A 60W) allows operation of the drive without needing an AC adaptor.

Compact design

The light, compact PDW-U4 shares the same proven design heritage and ergonomics of the PDW-U1 and PDW-U2. The drive can be operated either horizontally or vertically.

Specifications

General

Power Requirements	DC 19.5 V (AC adaptor supplied)
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Power Consumption	30 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
Humidity	20% to 90% (relative humidity)
Mass	2.1 kg 4 lb 10 oz
Dimensions (W x H x D) *1	67.4 x 164 x 259 mm (excluding protrusions) 2 3/4 x 6 1/2 x 10 1/4 inches (excluding protrusions)
Recording / Playback Format (Video)	XAVC (Infra 100 Mbps) MPEG HD422 (CBR, 50 Mbps) MPEG HD: - HQ mode (VBR, maximum bit rate: 35 Mbps) - SP mode (CBR, 25 Mbps) - LP mode (VBR, maximum bit rate: 18 Mbps) MPEG IMX (CBR, 50/40/30 Mbps) DVCAM (CBR, 25 Mbps)
Recording / Playback Format (Audio)	XAVC: 8 ch / 24 bits / 48 kHz MPEG HD422: 8 ch / 24 bits / 48 kHz MPEG HD: 4/2 ch / 16 bits / 48 kHz MPEG IMX: 8 ch / 16 bits / 48 kHz or 4 ch / 24 bits / 48 kHz DVCAM: 4 ch

/ 16 bits / 48 kHz

Recording/Playback Format (Proxy Video)	MPEG-4
Recording / Playback Format (Proxy Audio)	A-law (8 ch / 8 bits / 8 kHz)
Recording / Playback Time (XAVC-I 100 Mbps Audio 8 ch)	Approx. 21 minutes (PFD23A) Approx. 46 minutes (PFD50DLA) Approx. 92 minutes (PFD100TLA) Approx. 120 minutes (PFD128QLW)
Recording / Playback Time (MPEG HD422 50 Mbps Audio 8 ch)	Approx. 43 minutes (PFD23A) Approx. 95 minutes (PFD50DLA) Approx. 190 minutes (PFD100TLA) Approx. 240 minutes (PFD128QLW)
Recording / Playback Time (MPEG HD 35 Mbps / VBR Audio 4 ch)	65 minutes or longer (PFD23A) 145 minutes or longer (PFD50DLA) 290 minutes or longer (PFD100TLA) 360 minutes or longer (PFD128QLW)
Recording / Playback Time (MPEG IMX 50 Mbps Audio 8 ch / 16 bit or 4 ch / 24 bit)	Approx. 45 minutes (PFD23A) Approx. 100 minutes (PFD50DLA) Approx. 200 minutes (PFD100TLA) Approx. 240 minutes (PFD128QLW)
Recording / Playback Time	Approx. 85 minutes (PFD23A) Approx. 185 minutes (PFD50DLA)

(DVCAM 25 Mbps
Audio 4 ch)

Approx. 370 minutes (PFD100TLA)
Approx. 450 minutes (PFD128QLW)

Media Drive

Media Type

Professional Disc Drive (x1)

Input / Output

USB

USB 3.2 (x1)

Supplied Accessories

Supplied Accessories

USB Cable

Notes

Note

[*1] The values for dimensions are approximate.

Related products



PDW-850

Three 2/3-inch Power HAD FX CCD sensors
XDCAM HD422
ultimate Professional Disc camcorder with best picture quality



XDS- PD2000/A

XDCAM Deck / IT
Server with two SxS memory slots,
Professional Disc drive and 960GB SSD

and easy-to-share
and archive media

Gallery

