



## Professional Disc™ Media

### It's all about workflow.

The XDCAM® Professional Disc system brings you the efficient workflow of file-based recording, plus the comfort, reliability, and predictability of a medium that you can exchange like tape. It provides the advantages of both conventional VTR operation and cutting-edge IT features like high-speed data transmission and proxy A/V data management. With these advantages comes a highly sophisticated and comprehensive workflow for your content.

A crucial component of the XDCAM HD system is Sony's Professional Disc media which was co-engineered with XDCAM hardware equipment to assure maximum compatibility, stability, and performance in extreme temperature, humidity, and vibration environments.

### High density recording.

Sony's blue-violet laser technology means extraordinary high density recording. This enables Sony to provide high capacity discs that support various video recording workflows. The original 23GB\* single-layer disc (PFD23A/2) holds up to 43 minutes and the dual-layer disc (PFD50DLA/2) holds up to 95 minutes of material at the best quality (HD 422, 50 Mbps). Now Sony's 128GB\* quad-layer write-once disc (PFD128QLW) joins the Professional Disc family with up to 240 minutes of recording capability at 50Mbps.

### Affordable, removable, archivable media.

Depending on the feature set of your recorder, Professional Disc media can capture a wide range of video formats,

including DVCAM® and MPEG IMX® standard definition, as well as XDCAM HD and XDCAM MPEG HD422. When used with select decks, the entire disc capacity can be used for writing data files of any type. This gives the XDCAM disc format expanded flexibility beyond video content.

Unlike some other tapeless media, Professional Disc media can be used for everything from acquisition to program exchange, editing, play-to-air, and archiving.

\* 1 GB = 1 billion bytes. Actual formatted capacity will be less.

## Professional Disc™ Media.

- **Quick random access with near-line storage.** One of the great benefits of optical disc is instant access to your clip. There's no fast forward, no rewind, no need to "cue up" to the end of the last recorded portion.
- **Dust- and shock-resistant cartridge.** Helps to protect the disc surface from fingerprints and dirt.
- **Incredible durability.** Thanks to non-contact recording and playback, the disc supports up to 1,000 read/write/erase cycles (Re-writable disc only).
- **Amazing archival life.** Professional Disc has an estimated shelf life of 50 years in accelerated testing.

## Hardware compatibility

	PFD23A/2	PFD50DLA/2	PFD128QLW
XDCAM MPEG IMX/DVCAM: PDW510, 530, 1500, R1, D1	OK	-	-
XDCAM HD: PDWF335L, F355L, F75	OK	OK	-
XDCAM MPEG HD422: PDW700, F800, F1600, HD1500, HR1, U1	OK	OK	-
XDCAM Content & Archive Solutions: PDWU2, XDS-PD2000, XDS-PD1000	OK	OK	OK

## Record Times

	Recording Format	Recording Bit Rate	PFD23A/2	PFD50DLA/2	PFD128QLW
High Definition	XDCAM MPEG HD422	50 Mbps	43min.	95min.	240min.
	XDCAM HD	35 Mbps	65min.	145min.	360min.
		25 Mbps	85min.	190min.	480min.
		18 Mbps	112min.	248min.	600min.
Standard Definition	MPEG IMX	50 Mbps	45min.	100min.	240min.
		40 Mbps	55min.	120min.	n/a
		30 Mbps	68min.	150min.	n/a
	DVCAM	25 Mbps	85min.	185min.	450min.

## Specifications

	PFD23A/2	PFD50DLA/2	PFD128QLW
Disc Type	Re-Writable		Write-Once
Formatted Capacity	23.3 GB*	50 GB*	128 GB*
Cartridge Dimensions	5-1/8 x 5-1/8 x 3/8 inch (128.6 x 130.6 x 9.1 mm) **		
Disc Diameter	4-3/4 inch (120mm) **		
Max. Transfer Rate (Write)	86 Mbps		144 Mbps
Erase/Write/Read cycles	more than 1,000 times		
Read cycles	more than 1,000,000 times		
Estimated Shelf Life	≥ 50 years***		
Estimated Archival Life	≥ 50 years***		
Operating Conditions	23 ~ 131°F (-5 ~ 55°C) / 10 ~ 90% Relative Humidity		
Storage Conditions	14 ~ 131°F (-10 ~ 55°C) / 5 ~ 90% Relative Humidity		

\* A portion of the user data area will be used for data management. The total user area may vary.

\*\* Non-metric weights and measurements are approximate and may vary.

\*\*\* Estimation from Sony's accelerated testing.

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