



Professional Disc™ from Sony

The most popular file based
media for HD recording

HD is here and it's time to be involved.

If you're looking for
true High Definition
picture quality across all
formats and outstanding
recording capacity,
choose Professional
Disc™.



Professional Disc™ Storage Capacities

- Single-Layer version
PFD-23A : 23.3GB
- Dual-Layer version
PFD-50DLA : 50GB
- Quad-Layer version
PFD-128QLW: 128GB



Flexible High Definition solutions

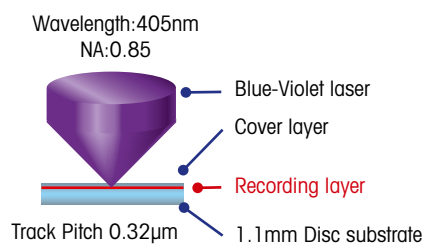
Professional Disc™ combines **HD picture quality** with **outstanding recording capacity** and **fast, flexible linear editing**. Ideal for ultra efficient filmmaking and news reporting. With dual-layer and new quad-layer versions, media professionals can **maximise acquisition and archiving opportunities**. Professional Disc™ is part of a family of Sony HD media products designed for every need and budget.



Our technical expertise

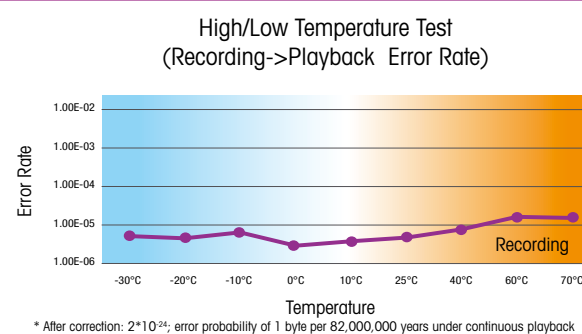
Advanced Blue-Violet Laser

New 405 nm Blue-Violet laser boosts recording stability and resistance to temperature extremes. The laser stores digital data using a phase change process that briefly heats an incredibly small area of the disc surface to a temperature of 400° to 600° Celsius. Improves XDCAM HD recording in harsh conditions and environments.



Advanced hard coat technology

Improves scratch-resistance of the disc while minimizing electrostatic charge to prevent damage from dust and dirt.



Designed for extreme conditions

Shoot in sun-baked deserts or on snowy mountain peaks. Rugged Professional Disc™ provides **ultra reliable recording and replay** across an extreme range of temperatures and environments.

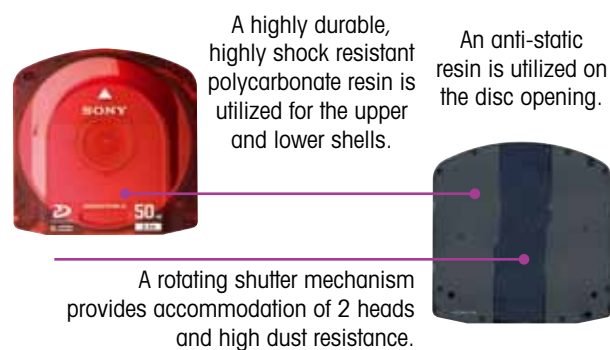
Reliable and cost effective

Record and re-record over 1000 times without picture or audio degradation. Less moving parts means **better reliability**. Maintenance costs are up to 6 times lower than the most economical professional tape formats.

Durable cartridge

Offers excellent protection against dust, vibration, surface scratches and X-rays.

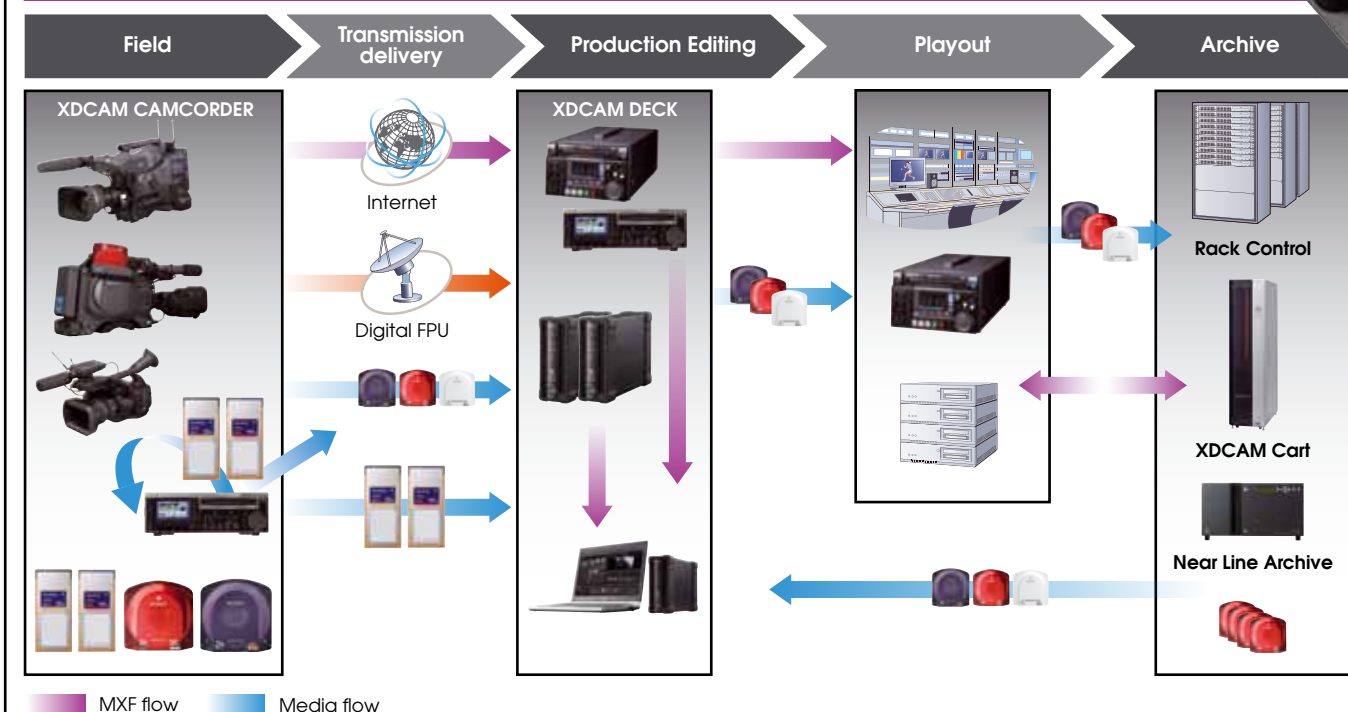
A Durable Cartridge



A media for all

Professional Disc™ is an essential part of any XDCAM workflow. Ideal for any customer, application or need.

Example of XDCAM workflow and place of the discs



- **Shooting** on 23GB Professional Disc™ is the most reliable and cost effective solution
- **Dubbing** from SxS cards to Professional Disc™ is easy and a great way to archive
- **Editing** with Professional Disc™ is just like moving files on a computer
- **Delivering** data on disc is safe and simple with wide industry compatibility
- **Archiving** on rugged Professional Disc™ media safeguards precious content

Key benefits

Global standard

Tried, tested and trusted by production studios and broadcasters worldwide.

Tough and durable

The media of choice for **extreme** shoots in challenging environments.

Reliable

Works for over 50 years – the perfect storage solution.

Economical

Saves cost and shelf space with up to 128GB of data stored on one single disc.

Versatile

Record in Standard Definition or High Definition – your choice.

Eco friendly

Store data on disc in a **green** archive – no power required.

Lightning

Copy and dub at up to 144MB per second with a Quad Layer disc.

Fully compatible

Ideal back-up and archiving media for SxS and XDCAM users.

Lifetime customer support

Make one call for **advice, technical help** and even **data recovery** when possible.



Professional Disc designed for XDCAM HD

Professionals Choose Sony

Sony is Your Perfect HD Partner

HD is here and Sony offers an easy way to switch to High Definition with Professional Disc™. A rugged and reliable media for filmmakers from the format inventor. Choose Sony and enjoy an unbeatable combination of innovation, quality and compatibility. Plus, of course, unrivalled technical support including media recovery in case the unthinkable happens.



Specifications			
Model Name	PFD23A	PFD50DLA	PFD128QLW
Media Type	Rewritable	Rewritable	Write Once
Color	Violet	Red	White
Recording Format	Phase change recording		
Recording Capacity (GB)	23.3	50	128
Transfer Speed	2.4x	2.4x	4x
Min. Mark Length (μm)	0.162	0.149	0.117
Writing Transfer Speed (Mbps)	86		144
Track Pitch (μm)	0.32		
Read Stability (times)	>1,000,000		
Archival Life (years)	>50*		
Shelf Life (years)	>50*		
Laser Wavelength (nm)	405		
Operating Condition	-5~55°C – 10~90%RH		
Storage Condition	-10~55°C – 10~90%RH		
Cartridge Dimension (mm)	128.6x130.6x9.1		
Case dimension (mm)	158x145.2x14.8		
*Estimation from Sony's acceleration test			

Professional Disc™ line-up					
Model	Weight	Master Carton		Sub Carton	
		Quantity (pcs)	Weight (g)	Quantity (pcs)	Weight (g)
PFD-23A	189,9	50	10.385	5	985
PFD-50DLA					
PFD-128QLW					

Recording Time (min)*				
Video Codec	Video Bit Rate	PFD23A	PFD50DLA	PFD128QLW**
MPEG HD 4:2:2	50Mbps	43	95	240
	HQ Mode: 35Mbps	65	145	360
		85	190	480
	LP Mode: 25Mbps	112	248	600
MPEG IMX	50Mbps	45	100	240
	40Mbps	55	120	n/a
	30Mbps	68	150	n/a
DVCAM	25Mps	85	185	450
*Actual record times are approximate and may vary depending on number of clips and audio channels. Specifications are subject to change.				
** Write-once media for near-line storage and backup. Not compatible with PDW camcorder lineup.				

Compatibility	
PFD-23A:	All XDCAM products
PFD-50DLA:	PDW-F335, PDW-F355, PDW-F75, PDW-U1, PDW-HD1500, PDW-F1600, PDW-700, PDW-F800, PDW-HR1, XDS-PD1000, XDS-PD2000, PDW-U2, XDCAM Juke
PFD-128QLW:	XDS-PD1000, XDS-PD2000, PDW-U2, XDCAM Juke

SONY

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