

NON LINEAR SOLUTION

FROM ACQUISITION TO ARCHIVE WITH SONY'S PROFESSIONAL DISC.



RECORDING TIME

VIDEO CODEC	VIDEO BIT RATE	RECORD TIMES IN MINUTES ¹		
		PFD128QLW ²	PFD50DLA	PFD23A
MPEG HD 4:2:2	50Mbps	240	95	43
	HQ Mode: 35Mbps	360	145	65
	SP Mode: 25Mbps	480	190	85
MPEG HD 4:2:0	LP Mode: 18Mbps	600	248	112
	50Mbps	240	100	45
	40Mbps	-	120	55
MPEG IMX	30Mbps	-	150	68
	25Mbps	450	185	85
DVCAM	25Mbps	450	185	85

¹ Actual record times are approximate and may vary depending on number of clips and audio channels. Specifications are subject to change.
² Write-once media for near-line storage and backup. Not compatible with PDW camcorder lineup.

PRODUCT SPECIFICATIONS

	PFD128QLW	PFD50DLA	PFD23A
Cartridge Dimensions (mm)	128.6 x 130.6 x 9.1		
Recording Capacity (GB)	128GB	50GB	23.3GB
Track Pitch [μ m]	0.32		
Min. Mark Length [μ m]	0.117	0.149	0.162
Max. Transfer Rate [Write] (Mbps)	144	86	86
Erase/Write/Read Cycles	Write once	More 1,000 times	More 1,000 times
Read Stability	More 1,000,000 times		
Archival Life	More 50 years [*]		
Shelf Life	More 50 years [*]		
Laser Wavelength (nm)	405		
Operating Condition	-5~55°C/10~90%RH		
Storage Condition	-10~55°C/5~90%RH		

^{*} Estimating by acceleration test using actual drives.

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10 REASONS WHY SONY'S PROFESSIONAL DISC IS THE SUPERIOR ARCHIVAL SOLUTION

ENJOY EASY RANDOM ACCESS

Based on a non-linear file-based recording system, there is no tape to forward or rewind, the optical pickup just goes to the file you need. That means less time spent waiting for greater productivity and faster response time.

FASTER THAN REAL TIME TRANSFER SPEED

Due to the fact that XDCAM™ is recorded on file format, users can enjoy faster than real time dubbing and back up.

EASY AND SIMPLE WORKFLOW

Sony's Professional Disc lets you use a single media type across every stage of your workflow, from shooting, editing, back up to archival. Additionally, there is no need to invest in duplicate equipment which ultimately leads to the reduction of overall business cost.

50 YEARS ARCHIVAL LIFE

Encased in a robust anti-dust casing, your data is protected against physical shocks, vibrations, X-rays and magnetic fields. The optical recording technology also protects the integrity of your recording for up to 50 years when stored properly.

EASY TO REUSE

Contents stored on Sony's Professional Disc can be easily erased and reused up to 1,000 times*. Successful and error-free re-recording is assured thanks to the durable and reliable optical technology.

PROFESSIONAL SERVICE SUPPORT

With years of experience in the broadcast arena, Sony has an established team of service and support from both hardware and media group that you can trust for your XDCAM™ workflow.

COMPATIBILITY

Sony understands that professionals need solutions that work across the complete production chain while minimising cost. There are no worries on compatibility between hardware and media as Sony's XDCAM™ team and Professional Disc team work seamlessly together. In short, the end user enjoys the best solution from shooting to data archiving.

PRODUCT LIFE CYCLE

Sony's Professional Disc has had a stable product life cycle since the launch of its first single-layer disc. It is designed with forward and backward compatibility, so you spend less time worrying about upgrades. This is not true of alternative IT tape archive format, as the product renewal cycle is about 2 years. With this short product cycle, companies need to upgrade their hardware systems every 2-3 years, hence increasing their overall cost.

HIGH PERFORMANCE UNDER TOUGH ENVIRONMENT

Sony's Professional Disc is designed to work across a wide range of temperatures (-5 to 55 degrees Celsius) and humidity (5% to 90%). This is significantly more robust and resilient than traditional tape media.

EASE OF MANAGING ARCHIVED FILE

With the high capacity of Sony's Professional Disc, users enjoy long recording times, so it's easy to record up to 600 minutes* of data onto a single disc. The XDCAM™ system also records proxy data (low resolution video data), for easy tracking and cataloguing to the archive system.

*PFD128QLW LP mode recording



THE PROFESSIONAL'S CHOICE IN
HIGH DEFINITION SOLUTIONS
SONY'S PROFESSIONAL DISC

SONY'S PROFESSIONAL DISC

YOUR CHOICE FOR A COMPLETE WORKFLOW SOLUTION.



THE NEW QUAD-LAYER 128GB SONY'S PROFESSIONAL DISC FOR XDCAM™

Introducing the new quad-layer Sony's Professional Disc, PFD128QLW. Incorporating Sony's cutting edge blue-laser technology and high-density recording mechanism, the new write-once 128GB quad-layer disc lets you back up two fully recorded 64GB SxS-1 memory cards. Its designed for extended recording and archival use by allowing up to 4 hours of high-definition content when recording in MPEG HD422 mode at 50Mbps.

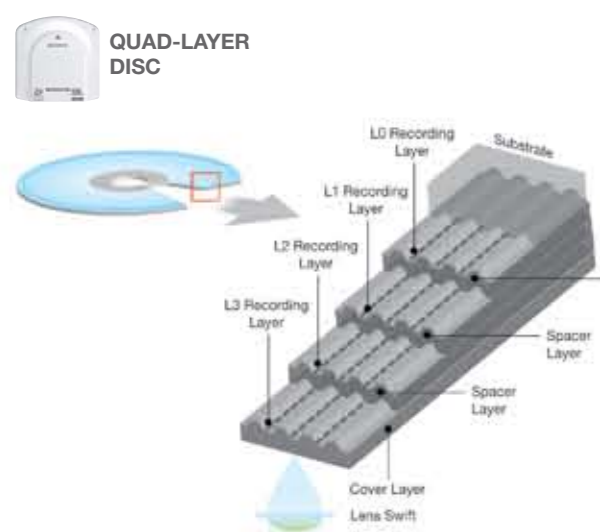
4X WRITING SPEED (144Mbps)

With 4x writing speed, the write-once PFD128QLW complements the 1.2Gb/s transfer speeds of the new SxS-1 memory cards. This new feature supports the transfer speed requirements of the new PMW-500 camcorder, contributing a significant improvement to the XDCAM™ workflow with ultra-fast ingest times. Now professional users will be able to transfer 120 minutes of HD422 content directly to a laptop in just eight minutes.

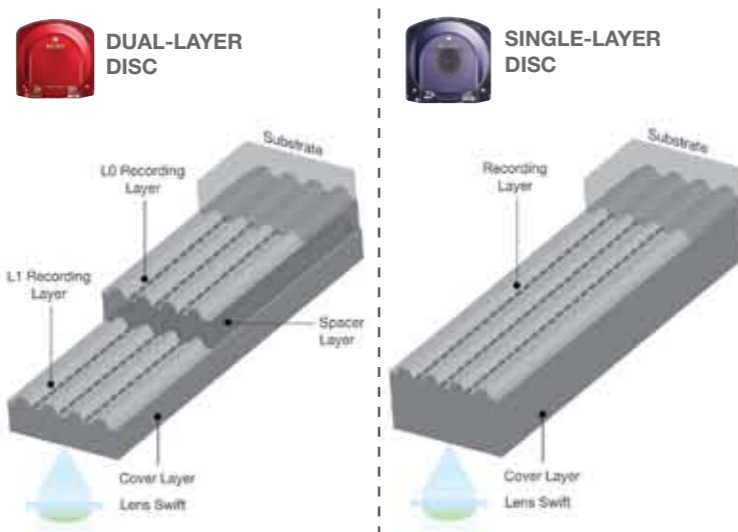
TOUGHENED TO PROTECT YOUR RECORDING

Encased in a protective cartridge designed to be resistant to dust, shock and X-rays, professionals are assured that their recordings are safely stored. Engineered to sustain more than 1 million read cycles, and with an estimated archival life of more than 50 years, the PFD128QLW is the ideal archival solution.

DISC STRUCTURE FOR QUAD-LAYER



DISC STRUCTURE FOR DUAL-LAYER & SINGLE-LAYER



KEY TECHNOLOGIES

* Semi-Transparent Recording Layer (New Materials have been developed) * Grooved Transparent Spacer Layer (New Processes have been developed)

BACKUP UP SOLUTION FOR SxS MEDIA

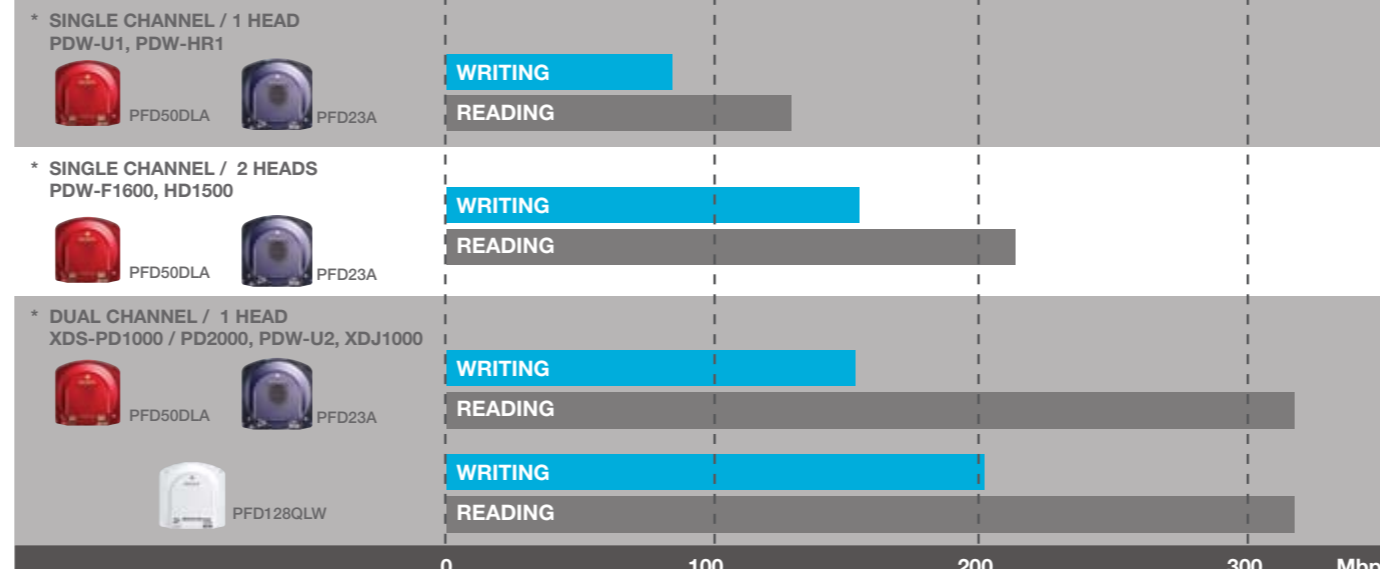
Sony's Professional Discs are the perfect solution to back up your contents shot in XDCAM EX™. Using the newly introduced XDCAM™ Station, users can easily copy the material from SxS memory card to Sony's Professional Disc for back up and archival purposes. Customers will continue to benefit from the random access capability for quick search, and will also benefit from the estimated archival life of 50 years which is not possible with the memory cards. The high capacity of the PFD128QLW will allow customers to back up two fully recorded 64GB SxS memory cards in a single disc at 4X real time transfer rate. With the slim design of the cases, customers will also benefit from storage space savings.

DESIGNED FOR USE UNDER SEVERE ENVIRONMENT REMARKABLY STRONG PREVENTIVE CHARACTER AGAINST DUST

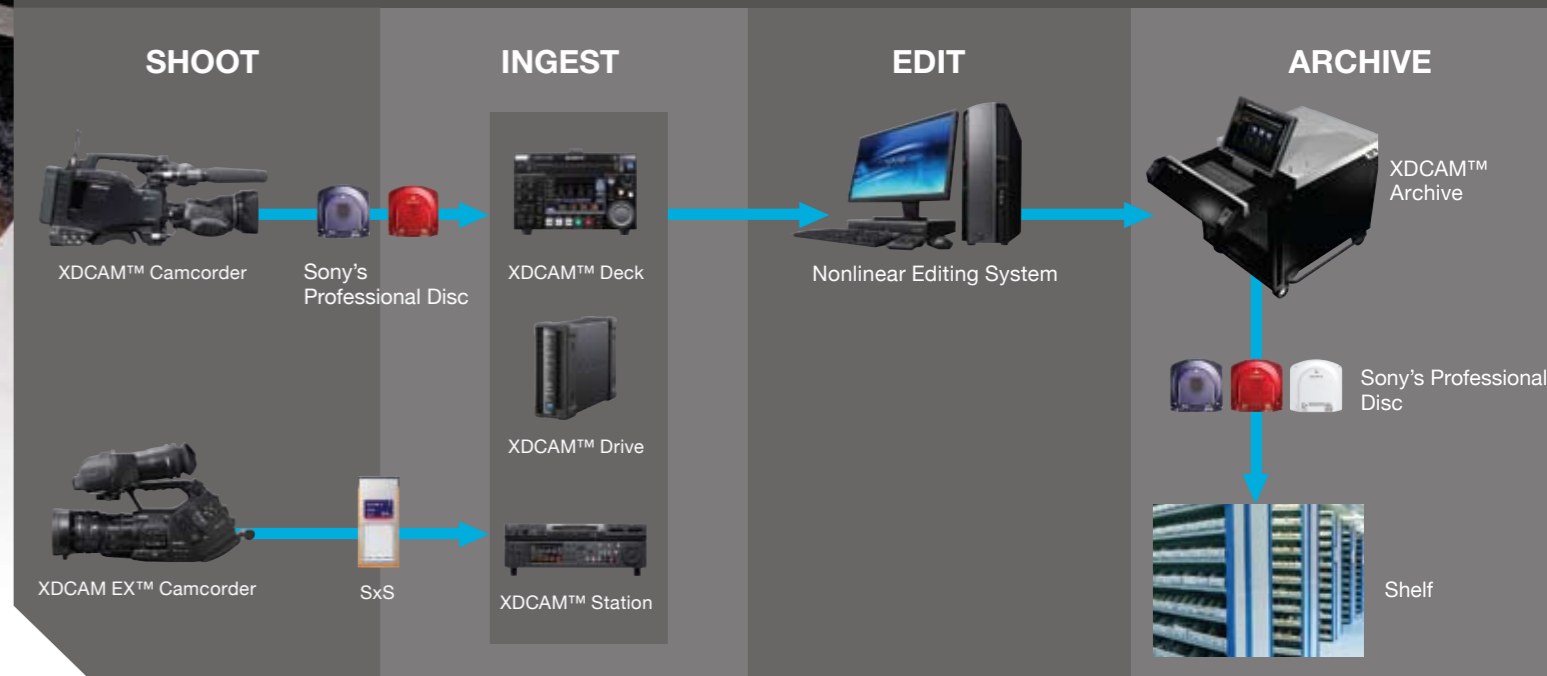
Advantages of Sony's Hard Coating Technology

- Dust Resistant : Remarkably strong resistance against dust
- Scratch Guard : Protects the disc against scratches
- Stain Resistant : Provides strong resistance against stain
- Anti-Static : Prevents built up of static electricity

HIGH TRANSFER SPEED



XDCAM™ WORKFLOW



PROFESSIONAL DISC COMPATIBILITY

