

SONY.

Professional Disc™ media with Optimum Flexibility



High Density Recording

Sony's Professional Disc recording media is a 5 inch (12cm) rewritable optical disc capable of recording in two layers up to 50GB (or up to 23.3GB on the single-layered disc). By achieving a track pitch of 0.32 μm , with state-of-the-art manufacturing technology and by utilizing blue-laser technology, this type of disc media can attain high density recording more than 10 times (or 5 times on a single layer disc) that of a DVD (4.7GB) using red-laser technology.

High Transfer Rate and Long Recording Times

The specially designed, dust, shock and X-ray proof product is constructed to be compatible with the new dual optical head recording system, enabling a maximum writing transfer rate of 172 Mbps (using two optical heads) and 86 Mbps (using one optical head). The dual layer media will record approximately 190 min. (85 min. in the single layer disc) of SD content in DVCAM mode at 25 Mbps and 270 min. (120 min. in the single layer disc) of HD content in MPEG mode at 18 Mbps. This unique combination of extensive recording capacity and high transfer rate capability ideally positions the disc for broadcast and professional applications.

High Writing Speed for Linear Editing Capabilities

When used with the software upgrade for the PDW-1500 for new linear editing functions, the writing speed of the disc is increased to 2.4 times of the previous PFD23. These new editing functions allow the user to perform Assembly edits and Video Insert edits. For more information please contact a regional Sony Professional Media Sales office.

High Durability and Re-write Cycles

The Professional Disc provides the same features as standard optical formats, such as split-second random access and ENG/EFP-ready durability, which is a result of the fact that the optical head never touches the media. With both models of the Professional Disc media, you can expect a minimum of 1,000 read/write/erase cycles under specified operating conditions. And with an archival life of over 50 years, the Professional Disc is a highly durable and reliable option in recording media.

www.sonybiz.ca


Professional Disc
XDCAM HD
Professional Disc System



HARDWARE COMPATIBILITY

	PFD23A (Single Layer 23.3GB)	PFD50DLA - NEW (Dual Layer 50GB)
Current XDCAM SD	OK	—
Current XDCAM HD420	OK	—
2007 Model XDCAM HD420	OK	OK
Future XDCAM HD422	OK	OK

RECORDING TIMES

	DVCAM	IMX	MPEG HD420	MPEG HD422
Format / Transfer Speed (Mbps)	25	50 40 30	35 25 18	50
PFD23A – 23.3GB (Single Layer)	approx. 85	50: approx. 45 40: approx. 55 30: approx. 68	35: approx. 60 25: approx. 90 18: approx. 120	approx. 43
PFD50DLA – 50GB (Dual Layer) NEW	approx. 190*	50: approx. 105* 40: approx. 126* 30: approx. 157*	35: approx. 150* 25: approx. 200* 18: approx. 270*	approx. 100

* Actual Recording Times may vary depending on factors such as bit rate mode, number of audio channels, number of video clips, etc. Specifications subject to change.

SPECIFICATIONS

ITEMS	PFD23A	PFD50DLA
Cartridge Dimensions (mm)	128.6 x 130.6 x 9.1	
Disc Diameter (mm)	120	
Formatted Capacity (GB)	23.3	50
Transfer Rate (Mbps) @ 2.4x+ speed	86 (one optical head), 172 (two optical heads)	
Track Pitch (µm)	0.32	
Erase/Write/Read Cycles (times)	> = 1,000	
Read Cycles (times)	> = 1,000,000	
Raw Byte Error Rate	< = 0.0002	
Estimated Shelf Life (years)	> = 50**	
Estimated Archival Life (years)	> = 50**	
Operating Conditions	-5 ~ 55C / 3 ~ 85% RH	
Storage Conditions	-10 ~ 55C / 3 ~ 90% RH	

† A portion of User Data Area will be used for Data Management, therefore, Total User Area may vary.

** Estimation from Sony's acceleration test.

For more information on Sony Professional Media products
visit our website at sonybiz.ca
or contact a Regional Sony Professional Media Sales Office

©2007 Sony of Canada Ltd. Reproduction in whole or in part without prior written permission is prohibited. All rights reserved. Features and specifications are subject to change without notice. Sony, DVCAM, MPEG IMX, XDCAM and the Professional Disc logo are trademarks of Sony. Packaging for the PFD50DLA is tentative.

PT431D
V-2231B