

PROFESSIONAL DISC FOR HDCAM

Maxell Professional Disc, assuring superior picture quality, storage capacity, random access capability and XDCAM compatibility.

Maxell's dual layer recording and higher recording density technology are realized in the large capacity 50GB professional disc, with twice the storage capacity of the single layer disc (23.3GB).

The introduction of a new phase change recording layer realizes media that has both a highly durable recording surface and a very low error rate even after 1,000 recordings. Also the use of a highly accurate spin coating technology provides a smooth surface which offers stable and reliable performance in recording and playback.

The Professional Disc also employs a high precision molded cartridge and that combined with hard coating technology protects data from dust and scratches. The semi-transparent case and index cards provide better and easier handling in the filming and editing of materials.

Features

- Compatible with XDCAM systems
- Rewritable 12cm diameter optical disc
- 23.3GB Capacity/Single Layer available
- 50GB Capacity/Dual Layer available
- Highly durable and reliable media for repeated use
- Dust and shock resistant high precision cartridge
- Estimated shelf and archival life of at least 50 years



HD/SD	Codec Method	Transfer Rate	Audio Channels	Recording Time	
				PD-23SL Single Layer	PD-50L Dual layer 50GB
HD	MPEG HD422 MPEG 2.442@HL	50 Mbps	8 ch	Approx. 43 min.	Approx. 95 min.
			4 ch	Approx. 43 min.	Approx. 95 min.
	MPEG HD MPEG 2.MP@HL	HQ Mode (Variable bit rate, 35Mbps) SP Mode (Constant bit rate, 25Mbps) LP Mode (Variable bit rate, 18Mbps)	4 ch	65 min.	145 min.
			2 ch	68 min.	150 min.
			4 ch	Approx. 85 min.	Approx. 190 min.
			2 ch	Approx. 90 min.	Approx. 200 min.
SD	DVCAM	25 Mbps	4 ch	Approx. 85 min.	Approx. 185 min.
			4 ch	Approx. 45 min.	Approx. 100 min.
	MPEG IMX	50 Mbps	8 ch	Approx. 55 min.	Approx. 120 min.
			4 ch	Approx. 55 min.	Approx. 120 min.
			8 ch	Approx. 68 min.	Approx. 148 min.
			4 ch	Approx. 68 min.	Approx. 148 min.

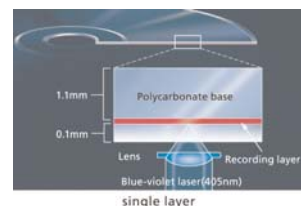
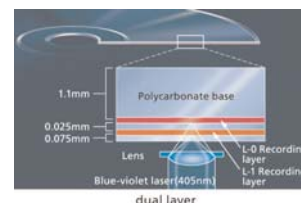
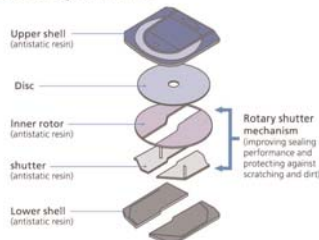
Technical Data

Model	PD-23SL Single Layer	PD-50L Double Layer
Item #	229155	29156
Carton Quantity	5	5
Recording Capacity	23.3GB	50GB
Data Transfer Rate*	Playback	Max. 172Mbps*
	Recording	Max. 126Mbps
		Max. 86Mbps
Laser wavelength	405nm (Blue-violet laser)	
Disc diameter	120mm	
Disc Thickness	1.2mm	
Cartridge Size	128.6 x 130.6 x 9.1mm	
Recording Layer	Phase Change Material	
Track Pitch	0.32µm	
Erase/record/playback cycles	More than 1,000 times	
Playback cycles	More than 1,000,000 times	
Estimated shelf and archival life (Presumption value by accelerated test)	More than 50 years	
Weight	Cartridge	88g
	w/case	190g
	Per inner carton	1,020g
	Per outer carton	11kg

*In the case of two optical heads

** The data transfer rate depends on capability of the equipment used.

Cartridge structure



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PM-39005

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