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Magneto-optical (MO) is a specialised market that is ideal for companies or industries who must meet legal archival regulations, who process large volumes of document management or who must access stored/archived files quickly. UDO is the next generation of magneto-optical technology designed to meet the changing demands of professional archival storage.



Key Features and Benefits

HP Ultra-Density Optical disks

- UDO is the next generation of magneto-optical technology designed to meet the changing demands of professional archival storage.
- HP write-once and rewritable UDO disks provide a capacity of up to 30 GB at a significantly lower cost/GB than magneto-optical disks.

HP Magneto-Optical disks

- HP Magneto-Optical disks meet and surpass ISO, IEC and ANSI standards.
 - Exceptional reliability and durability across the total optical solution (drives, the library and media) thanks to HP's patented robotics technology. A strong cartridge and anti-static hard-coated disc surface protects data against scratches, dust, magnetic fields and other extreme environmental conditions. This ensures faultless performance, now and in the future.
- A 'dual spiral' zone layout enables continuous Land and Groove track recording. Data is recorded on both the surface of the layer (the land) and the spiral track (the groove), increasing media density of the 14X and allowing 9.1 GB of data to be stored on just one disk.
 - HP rewritable optical disks allow virtually unlimited read/write cycles – over 1 million erase and write cycles, 1 billion reads and 100,000 load and unload cycles per side without quality loss. This makes them ideal for data management in information-intensive environments.
 - HP write-once optical disks are designed for permanent storage of large volumes of data.
 - Ideal for high-volume files – a 5.2 GB MO disk can store up to 1.3 million pages of text.

HP Magneto-Optical and UDO Media Products

Product No.	Description
HP 92280T	HP Rewritable Optical Disk; 1024 Bytes/Sector
HP 92290T	HP Write-Once Optical Disk; 1024 Bytes/Sector
HP 92279F	HP Rewritable Optical Disk; 512 Bytes/Sector
HP 92280F	HP Rewritable Optical Disk; 1024 Bytes/Sector
HP 92290F	HP Write-Once Optical Disk; 1024 Bytes/Sector
HP 88147J	HP Rewritable Optical Disk; 2048 Bytes/Sector
HP 88146J	HP Write-Once Optical Disk; 2048 Bytes/Sector
HP C7986A	HP Write-Once Optical Disk; 2048 Bytes/Sector
HP C7983A	HP Rewritable Optical Disk; 4096 Bytes/Sector
HP C7984A	HP Write-Once Optical Disk; 4096 Bytes/Sector
HP Q2030A	HP UDO 30 GB Write-Once Disk
HP Q2031A	HP UDO 30 GB Rewritable Disk



Specifications

All capacities and performance compressed.

Product No.	88146J	88147J	C7983A	C7984A	C7986A	Q2030A	Q2031A
Reseller Product Number							
Model	MO 8X WORM	MO 8X RW	MO 14X RW	MO 14X WORM	MO 14X WORM	UDO	UDO
Format							
Storage Capacity	5.2 GB	5.2 GB	8.6 GB – 9.1 GB	8.6 GB – 9.1 GB	8.6 GB – 9.1 GB	30 GB	30 GB
Sector Size	2048 bytes/sector	2048 bytes/sector	4096 bytes/sector	4096 bytes/sector	2048 bytes/sector		
Manufactured Material	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate
Physical Tracks Per Side	38,136	38,136	49,728	49,728	49,728	96,964	96,964
Transfer Speed	5.07 MB/sec	5.07 MB/sec	6.14 MB/sec	6.14 MB/sec	6.14 MB/sec	8 MB/sec	8 MB/sec
Physical Characteristics							
Disk Thickness (mm)	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Track Pitch (um)	0.85	0.85	0.65	0.65	0.65	0.65	0.65
Archival Durability	100 years	100 years	100 years	100 years	100 years	100 years	100 years
Environmental Properties							
Operating Temperature	5 °C to 55 °C (41 °F to 131 °F)					5 °C to 55 °C (41 °F to 131 °F)	
Day to Day Storage Temperature	10 °C to 55 °C (50 °F to 131 °F)					10 °C to 55 °C (50 °F to 131 °F)	
Long Term Storage Temperature – Ambient	10 °C to 55 °C (50 °F to 131 °F)					10 °C to 55 °C (50 °F to 131 °F)	
Maximum Wet Bulb Temperature	29 °C (84.2 °F)					29 °C (84.2 °F)	
Non-Condensing Relative Humidity	3% to 85% RH					3% to 85% RH	
Logistics							
Unit (in case)							
External Dimensions (cm)	L 13.7 x W 1.2 x H 15.3					L 15.3 x W 13.5 x H 1.2	
Weight (g)	182					200	
Quantity	1	1	1	1	1	1	1
UPC	0 88698 52482 4	0 88698 52483 1	7 25184 39666 3	7 25184 39667 0	7 25184 39669 4	8 29160 24010 7	8 29160 24011 4
Sub Carton							
External Dimensions (cm)	L 15.9 x W 13.4 x H 18.3					L 15.7 x W 13.7 x H 7	
Weight (g)	1618					1000	
Quantity	8 x 1 units = 8 disks					5 x 1 units = 5 disks	
ITF-14	2 00 88698 52482 8	2 00 88698 52483 5	2 07 25184 39666 7	2 07 25184 39667 4	2 07 25184 39669 8	2 08 29160 24010 1	2 08 29160 24011 8
Master Carton							
External Dimensions (cm)	L 33.3 x W 28.0 x H 20.6					L 35.5 x W 28.2 x H 16.5	
Weight (kg)	6.77					11	
Quantity	4 x 8 packages = 32 disks					10 x 5 packages = 50 disks	
ITF-14	2 00 88698 52482 8	2 00 88698 52483 5	2 07 25184 39666 7	2 07 25184 39667 4	2 07 25184 39669 8	2 08 29160 24010 1	2 08 29160 24011 8

