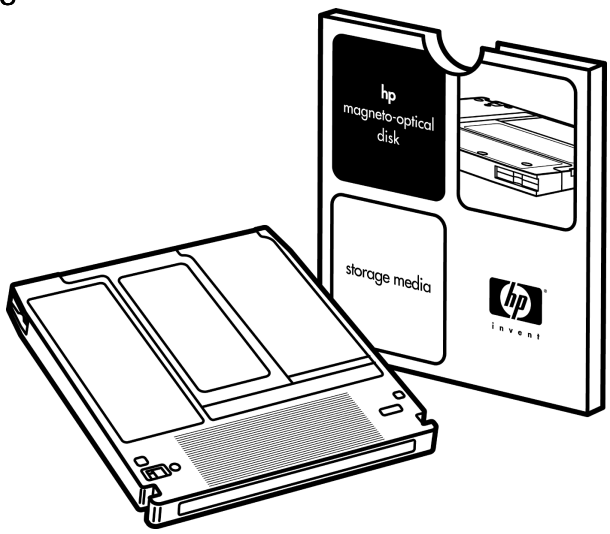
Overview

HP Magneto-Optical Storage Media



Introduction

Magneto Optical (MO) is a highly niche market that is ideal for companies or industries who must meet federal archival regulations, who process large volumes of document management, who must access stored/archived files quickly. Markets likely to utilize MO are: medical, legal, imaging, printing, document management, government and education. HP Write-once and rewritable disks surpass ISO, IEC and ANSI standards. HP quality control tests include 40,000 load/unload cycles per disk, which minimize the risk of broken shutter and unrecoverable read problems, thus ensuring total file access.

Models	HP 1.3GB rewritable optical disk-1024 bytes/sector (2X)	92280T
	HP 1.3GB write-once optical disk-1024 bytes/sector (2X)	92290T
	HP 2.3GB rewritable optical disk-512 bytes/sector (4X)	92279F
	HP 2.3GB write-once optical disk-512 bytes/sector (4X)	92289F
	HP2.6GB write-once optical disk-1024 bytes/sector (4X)	92290F
	HP 5.2GB rewritable optical disk-2048 bytes/sector (8X)	88147J
	HP 5.2GB write-once optical disk-2048 bytes/sector (8X)	88146J
	HP 8.6GB write-once optical disk-2048 bytes/sector (14X)	C7986A
	HP 9.1GB rewritable optical disk-4096 bytes/sector (14X)	C7983A
	HP 9.1GB write-once optical disk-4096 bytes/sector (14X)	C7984A

Key Features & Benefits

- Performance: Write Once technologies prevent tampering and interference
- Innovative: Unique shutter designs prevents costly hardware errors
- Safe: Antistatic shell prevents static build and potential hazards to data
- Durable: Up to 100 years archival

Product Highlights

Proven Reliability

HP ensures the highest level of quality with media specifications that far exceed industry standards. HP has 20 custom-built testing chambers that are in use 24 hours per day, 365 days per year. No other media supplier carries out such exhaustive qualification of the drive and media as HP. This is because no media supplier conducts extensive drive based tests on a daily basis and moreover, supports hardware warranty initiatives in the field with a vested interest in reducing all media-induced hardware issues. In 2002, 170,000 different media tests were performed, accounting for 1.3 million test hours. HP also conducts tests on multiple batches of media using multiple drives to ensure performance in different environmental conditions, such as variations of high/low temperature and humidity. Changes in external conditions, which can easily occur when media is moved from different locations, can have a huge impact on error rate performance. Increased error rates jeopardizes backup, and backup disruption jeopardizes business continuity. HP customers are many and varied; this is why HP specifies stringent durability and reliability metrics that the media must satisfy before it is good enough to bear the HP logo.

Magneto-Optical Technology

Magneto-optical technology, commonly referred to as MO, is a revolutionary approach to data storage that combines the advantages of both magnetic and laser technologies to capture and store data. The secret to magneto-optical is that during the recording process, an intense laser beam is focused on a disk containing an alloy material that retains a magnetic field when heated above a critical temperature. Write-one and rewritable disks surpass ISO, IEC and ANSI standards. HP's quality control tests include 40,000 load/unload cycles per disk, minimizing the risk of broken shutter and unrecoverable read problems. Anti-static shell design prevents corruption and lost data.

Related Hardware Options

NOTE: This is a list of related options. Some may be discontinued.

HP Surestore Magneto-Optical Jukeboxes	HP Surestore Optical 9100mx drive (9.1GB stand-alone optical)	C1114M
	HP SureStore Optical 220mx Jukebox, 1 Drive (218GB jukebox, LVDS/SE)	C1118M
	HP SureStore Optical 220mx Jukebox, 2 Drive (218GB jukebox, LVDS/SE)	C1119M
	HP Surestore Optical 300mx jukebox (291GB jukebox, 32 slots)	C1150M
	HP Surestore Optical 600mx jukebox (582GB jukebox, 64 slots)	C1160M
	HP Surestore Optical 700mx jukebox (692GB jukebox, 72 slots)	C1170M
	HP SureStore Optical 1200mx Jukebox, 4 Dr (1165GB jukebox, 128 slots)	C1104M
	HP SureStore Optical 1200mx Jukebox, 6 Dr (1165GB jukebox, 128 slots)	C1105M
	HP SureStore Optical 2200mx Jukebox, 4 Dr (2166GB jukebox, 238 slots)	C1111M
	HP SureStore Optical 2200mx Jukebox, 10 Dr (2166GB jukebox, 238 slots)	C1110M
	NOTE: HP SureStore Optical Jukeboxes will be rebranding to: HP Storage Optical.	

Technical Specifications

Technologies	2x	4x	8x	14x
General Characteristics				
Capacity	1.3GB	2.3GB - 2.6GB	5.2GB	8.6GB - 9.1GB
Bytes per Sector	1024	512,1024	2048	2048,4096
Archival Life (recorded)		100 years		
Shelf Life (unrecorded)		100 years		
Compatibility		http://www.hp.com/storagemedia/english/compat_mo.html		
Performance				
Carrier to Noise Ratio	> 45dB			
Read Cycle	> 108			
Erase/Write/Read Cycle	> 107			
Refractive Index	1.57			
Physical Characteristics				
Disk Dimensions (H x W x D)		73.0 x 54.0 x 10.5 mm (2.88 x 2.13 x 0.41 in.)		
Disk Thickness (microns)		1.2 mm (.05 in.)		
Disk Material		Polycarbonate		
Disk Outer Diameter		130 mm (5.12 in.)		
Case Dimensions (H x W x D)		1 53 x 135 x 11 mm (6.02 x 5.32 x 0.43 in.) (ISO)		
Case Material		Polycarbonate		
Operating Environment				
Operating Humidity Range (operating temperature range)		5°C to 55°C, 3% to 85% RH		
Non-Operating (Storage) Humidity Range		-10°C to 55°C, 3% to 90% RH		
Maximum Wet-Bulb Temperature		29°C		