

HP Models 120T and 200T Optical Disk Libraries



**The Largest Just Got Larger -
Doubled-Capacity to
200 Gbytes!**

With storage needs doubling every two to three years, there's no such thing as *too much* online storage. With the 120T and 200T libraries, HP now offers up to 200 gigabytes of online capacity in less than 7 sq. ft. (.7m) floor space. Today's large, fast-growing companies require access to volumes of information instantly. HP's 120T and 200T provide that capacity at a low cost and keep your data safe and accessible for years to come.

Reliability Comes First

HP designed the library to be the storage device you would trust with 200 gigabytes of data.

- A minimum of moving parts
- Highest quality components
- Simple, reliable design

Accessible and Compatible

Information needs to be more than safe. HP's adherence to accepted industry standards ensures that your data is 100% interchangeable and accessible. Drives and disks are based on:

- Multifunction, rewritable/write-once capability
- 1.3 Gbyte and 650 mbyte disk formats
- SCSI-2 interface

Fast Access

In today's fast-paced environment, network users can't afford to wait - with the 120T and 200T, you won't have to.



- 8 second average disk exchange
- 23.5 millisecond average disk seek
- Up to 4 independently-operating optical drives for optimum performance

Low Cost with Expandability

Cost-per-megabyte is what it's about. Optical offers vast amounts of online storage at a fraction the cost of hard disk. Grow with the 120T, and upgrade, easily, to a 200T when you need more.

HP Computer Museum
www.hpmuseum.net

For research and education purposes only.

Technical Information

Description

Model 120T	114.4 Gbyte optical disk library with 2 or 4 multifunction optical disk drives and 88 cartridge capacity
Model 200T	187.2 Gbyte optical disk library with 2 or 4 multifunction optical disk drives and 144 cartridge capacity

Performance		
	650MB Disks	1.3GB Disks
Average Disk Exchange Time	8 s	8 s
Average Seek	23.5 ms	23.5 ms
Short Seek (across 2.2 Mbyte)	5 ms	4 ms
Average Latency	8.3 ms	12.5 ms
Average Access Time	31.8 ms	36.0 ms
Effective Access Time*	14.3 ms	16.6 ms
Rotational Speed	3600 rpm	2400 rpm
Data Transfer Rate		
Reads (max. sustained)	1.0 Mbytes/s	Up to 1.6 Mbytes/s
Writes (max. sustained)	0.5 Mbytes/s	Up to 0.8 Mbytes/s
Burst (synchronous)	5 Mbytes/s	5 Mbytes/s
Burst (asynchronous)	3 Mbytes/s	3 Mbytes/s
Disk Load/Unload Time		
Load (w/spin-up)	2.8 s (avg)	2.3 s (avg)
Unload (w/spin-down)	1.4 s (avg)	1.4 s (avg)
Read/Write Error Rate	< 1 per 10 ¹⁴ bytes	< 1 per 10 ¹⁴ bytes
Buffer Size	512 Kbytes	512 Kbytes
Read Buffering	Read aheads	Read aheads
Write Buffering	Immediate reporting	Immediate reporting
	Write Re-ordering	Write Re-ordering
Media (Rewritable or Write-Once)		
Disks	5.25-inch MO, two-sided	
Formatted Capacity		
1024 Bytes/sector disks	650 Mbytes (325/side)	1.3 Gbytes (.65/side)
512 Bytes/sector disks	594 Mbytes (297/side)	1.2 Gbytes (.60/side)
Rewritable Std (CCS format)	ISO/IEC;10089A	ECMA 184
	ANSI X3.212-1992	ISO/IEC DIS 13549
Write-Once Std (CCW format)	ISO/IEC;11560	ECMA 184
	ANSI X3.220-1992	ISO/IEC DIS 13549
Bytes per Sector	1024/512	1024/512
Sectors per Tack	17/31	17/31
Tracks per Surface	18,751	37600 (logical)
Dimensions		
	Model 120T	Model 200T
Height	1847 mm (72.8 in)	1847 mm (72.8 in)
Width	651 mm(25.6 in)	651 mm(25.6 in)
Depth	971 mm (38.3 in)	971 mm (38.3 in)
Weight (Net)	347 kg (765.0 lb)	360 kg (793.7 lb)
Weight (Shipping)	396 kg (873 lb)	409 kg (901.7 lb)

Product Certifications

Safety	UL 1950, CSA 950, TUV IEC 950
Emissions	FCC Class "A", CISPR 22, Level "A"
Laser	CDRH, IEC 825

Reliability and Service

MTBF	80,000 hours
MSBF	600,000 hours
Mean Time to Repair	30 minutes
Preventive Maint.	None required

Environmental Specifications

Temperature

Operating	10o to 400 C
Non-operating	-400 to 600 C
Gradient	100 C per hour
Transportation (< 14 consecutive days)	-300 to 600 C

Humidity

Operating	10% to 90% RH
Non-Operating	5% to 95% RH

Shock

Non-operating	10 cm tilt, drop test
---------------	-----------------------

Vibration (5 to 500 Hz)

Operating	0.21 g rms
Non-operating (random)	2.1 rms
Non-operating (swept-sine)	0.5 g (0 to peak)
Acoustic Emissions	
Operating	63.4 dB
Idle	59.9 dB

Power Requirements

Line Voltage	100 to 240 Vac
Line Frequency	50 to 60 Hz
Power Consumption	200 W typical 457 W maximum

Interface

Single-ended SCSI-2

LYNX TECHNOLOGIES AUSTRALIA
Ph: (02) 313 4433 Fax: (02) 313 4155
Authorised Australian
Hewlett-Packard Distributor

* Results of 1/3 stroke plus latency over 50 MB-band width.

Data subject to change. Refer to the product technical guide for complete technical information.

Printed in the U.S.A. 6/93
5091-8244E