

HEWLETT-PACKARD

Technical Data

May 1987



The HP 9144A is a low cost 1/4-inch cartridge tape drive for backup of personal workstations and small systems.

- Up to 67 megabytes can be stored on a single cartridge
- Transfer rate up to 2 Mbytes/minute
- Supported on HP 1000, HP 3000, HP 9000 systems and selected HP personal computers
- Compatible with the HP 35401A cartridge autochanger tape drive and HP's integrated cartridge tape/disc drives
- Read-while-write and error correction to ensure data integrity

LOW COST BACKUP

The HP 9144A offers a convenient and dependable alternative to backing up your data on multiple floppy discs. As a low cost, entry-level solution, it is best suited to personal workstations or small systems with disc capacities of up to 200 megabytes.

APPLICATIONS

Whether your computer is a PC, an engineering workstation, a technical or business computer, the HP 9144A can be used for backup of selected files or your entire disc drive. It can also be used for software distribution and transaction logging.



FUTURE GROWTH PATH

If you take the decision to purchase an HP 9144A as your backup solution, you are assured of a future growth path. Media and format compatibility ensure an easy upgrade path to the HP 35401A autochanger product. The HP 35401A offers you up to 536 megabytes of unattended backup and will suit your needs as your system grows.

SUITABLE FOR OFFICE USE

The HP 9144A is particularly suited to an office environment as it is only slightly larger than a standard in-tray. It is also easy to use and does not require a trained operator.

HP 9144A 1/4-inch Cartridge Tape Drive

PERFORMANCE CHARACTERISTICS

Transfer Rate: 2 Mbytes/minute (system dependent)
Tape Speed (maximum sustained):

Read/Write: 60 ips
Search/Rewind: 90 ips

Storage Capacity: 16.7 and 67.1 Mbyte cartridges

Tracks/Tape: 16
User Blocks/Track:
16.7 Mbytes, 150ft cartridge... 1024
67.1 Mbytes, 600ft cartridge... 4096

Frames/Block: 6 (4 for date, 2 for error correction)
Bytes/Frame: 256

Format/Density

Encoding techniques: MFM
Bit density: 10,000 bpi

FUNCTIONAL CHARACTERISTICS

Interface: HP-IB (using CS/80 protocol)

Power Requirements

Line Voltage: 90-125 volts or 180-250 volts <25 W rms
(switch selectable)
Line Frequency: 48-66 Hertz

Electromagnetic Emissions

Radiated and conducted interference:
USA: meets FCC rules Part 15 Class B computing devices.
Europe: meets FTZ 1046/84 computing devices.

ENVIRONMENTAL CONDITIONS

Operating Limits (media limited)

Temperature: 5°C to 40°C (41°F to 104°F)
Humidity: 20% to 80% with maximum wet bulb
temperature (non-condensing) not to exceed
26°C (79°F)
Altitude: 0 to 4572m (0 to 15,000ft)
Shock: 2 G, 11 ms duration
Vibration: 5 to 500 Hz; 0.2G rms
Noise Level: <55dba

Non-Operating Limits

Storage and Transit of Drive
Temperature: -40°C to 75°C (-40°F to 167°F)
Altitude: -304 to 15240m (-1000 to 50,000 ft)
Shock: 30 G, 11 ms duration
Vibration: 5 to 500 Hz; 2.1G rms
Storage and Transit of Media
Temperature: -40°C to 45°C (-40°F to 113°F)

PHYSICAL SPECIFICATIONS

Net weight: 8.67kg (19lbs)
Height: 125mm (4.9in)
Depth: 285mm (11.2in)
Width: 325mm (12.8in)

SAFETY

CSA certified to CSA 22.2 No 154
Meets all applicable safety standards of IEC 380
and IEC 435 UL listed to UL 114 and UL 478

ORDERING INFORMATION

Contact your local HP sales representative to
verify current host system support before
ordering.

Accessories supplied

Power Cable: Suitable for country of destination
Operator's Manual: 09144-90000
Fuse 3.0 Amp: 2110-0003
Head Cleaner: 8500-1251*
Swabs: 9300-0767

Accessories Available

19-inch rackmount kit: HP 19500A
Pack of five 16.7 Mbyte tape cartridges: HP 88140SC
Pack of five 67.1 Mbyte tape cartridges: HP 88140LC
Cleaning cartridge kit: HP 92193E
Replenishment kit for HP 92193E: HP 92193P

**Periodic cleaning of the HP 9144A read/write head is
recommended to ensure correct operation*

Hewlett-Packard, in a continuing effort to offer excellent products at a fair value,
reserves the right to change specifications, designs, and models without notice.



For assistance call the HP regional office nearest you: (Eastern) Hewlett-Packard, 4 Choke Cherry Road, Rockville, MD 20850, 301/258-3000; (Midwest) Hewlett-Packard, 5201 Tollway Drive, Rolling Meadows, IL 60068, 312/255-4600; (Western) Hewlett-Packard, 5161 Lanekershim Boulevard, North Hollywood, CA 91601, 818/505-5600; (Southern) Hewlett-Packard, 2000 South Park Place, Atlanta, GA 30339, 404/955-1500; (Canada) Hewlett-Packard Canada Ltd., 6877 Goreway Drive, Mississauga, Ontario, L4V 1M8, 416/678-9430; (Europe) Hewlett-Packard S.A., 150 Route du Nam-d'Avril, P.O. Box CH-1217 MEYRIN 2, Geneva, Switzerland, 031/41 22 888-111; (Japan) Yokogawa-Hewlett-Packard Ltd., 29-21 Takaido-Higashi 3-chome, Suginami-ku, Tokyo, 368, 03/331-6111; (Far East) Hewlett-Packard Asia Headquarters, 47F China Resources Building, 26 Harbour Road, Wanchai, Hong Kong, 3/833-6833; elsewhere in the world: Hewlett-Packard International, 3495 Dier Creek Road, Palo Alto, CA, 94304, U.S.A. 415/857-1501.