

Lisa

# Lisa ProFile



Apple's ProFile™ is a personal mass storage system that increases Lisa's storage capacity by five million bytes. The compact 5¼-inch hard-disk drive simply plugs into the back of the Lisa™ system.

ProFile's Winchester technology enables you to access data ten times faster than with conventional floppy disks. This allows you to tackle large projects more efficiently, access additional Lisa applications quickly, and easily store existing documents in one

place. ProFile is the ideal Lisa enhancement for professionals, office workers, and programmers—or anyone who needs to access large amounts of information quickly.

### **ProFile streamlines complex tasks.**

- Get five megabytes of storage (more than 1,200 pages of single-space typed text) on line.
- Access data at the rate of five million bits a second—about ten times faster than a conventional floppy disk drive.
- Store large financial models, graphics, and text documents in one place for fast access.
- Streamline program development by reducing the need to swap disks.

### **The integrity of your files is protected.**

- The sealed, nonremovable disk eliminates the possibility of accidentally damaging the disk.
- The built-in, intelligent controller automatically scans for error conditions and moves data out of marginal data blocks when necessary.
- When you turn the ProFile on, the controller automatically checks the integrity of each sector by analyzing all disk surfaces.

faces. If error conditions are detected, the controller attempts to remedy the situation.

### **A personal mass storage device that can be used in any work environment.**

- ProFile is compact, attractively styled, and lightweight.
- No fan or other cooling device is required, so it's especially quiet.
- Installing a ProFile couldn't be easier. Just plug it into Lisa's built-in parallel port.

### **ProFile is highly reliable and surprisingly inexpensive.**

- ProFile is designed to offer an MTBF (mean time between failures) of more than 10,000 hours.
- ProFile's data storage is very cost effective—less than one-tenth of a cent per byte.

## Specifications

### **Storage characteristics:**

- 4 data surfaces.
- 1 head per surface.
- 254 tracks per inch.
- 152 tracks per surface.
- 16 blocks per track.
- 512 bytes per sector (one block).
- 2432 sectors per surface.
- 5-megabyte data capacity (formatted).

### **Drive characteristics:**

- Seek-time distribution: 330 tracks per second.
- Average seek time: 180 milliseconds.
- Data transfer rate: 5 megabits per second.
- Rotational speed: 3600 RPM.
- Rotational start-up time: 20 seconds.
- Drive ready to operate: < 60 seconds.

### **Power requirements:**

- 110 V AC.
- 35 W.

### **Environmental requirements:**

- Operating temperature: 50° to 104°F (10° to 40°C).
- Storage temperature: -7.6° to 176°F (-22° to 80°C).
- Operating humidity: 20 to 80% noncondensing.
- Storage humidity: 1 to 95%.

### **Weight and dimensions:**

- Weight: 11 lb (5 kg).
- Height: 4.39 in. (11.15 cm).
- Width: 17.28 in. (43.89 cm).
- Depth: 8.81 in. (22.38 cm).

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