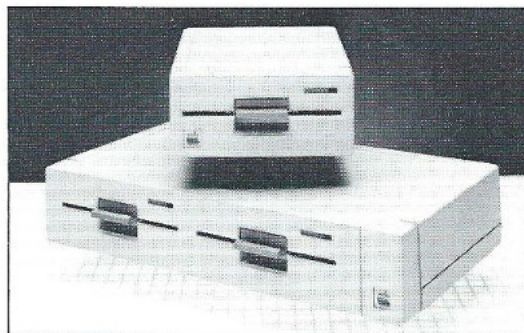# apple computer

Duodisk™ and Unidisk™ Floppy Disk Personal Storage Systems

Versatile Information Storage and Retrieval

Duodisk and Unidisk are custom-designed storage systems created especially for the Apple // and Apple /// families of computers. Each system lets you use the multitude of programs written for these Apple computers, from accounting packages to games. Each system also lets you keep large amounts of information on file in the form of inexpensive, compact (five-inch-square) "floppy diskettes."

On a single diskette, for example, you can file away the text for 50-100 short letters ... or store all the words in a 100-page report. Then, when you want to retrieve the information, you have fast access to it—so fast you'll be able to review or revise entire documents in seconds.

No matter where you use your Apple—at home or school, in the office or laboratory—

you'll find that these systems provide the superior solution to your information storage needs.

Benefits

Duodisk ...
■ gives you plenty of room to file information—up to 140K bytes of storage in each of the two disk drives ...
■ allows you to back up files with ease, because its side-by-side disk drives are housed in a single case ...
■ lets you take advantage of software programs that require use of two disk drives ...
■ provides versatility and flexibility, because it's compatible with any computer system in the Apple // and /// families, and with virtually all of the huge existing library of Apple software ...
■ provides expandability, because it can be easily linked up in "daisy chain" fashion to Unidisk for Apple /// and Disk /// disk drives ...

■ gives your Apple // computer system a contoured, modular appearance, because it fits neatly between your monitor and any computer in the Apple // family ...

Unidisk ...
■ employs the same technical and aesthetic features of Duodisk, but with one drive instead of two ...
■ provides a convenient method of backing up diskettes, if you already have one disk drive (for example, as a back-up for the Apple /// built-in disk drive).

Duodisk and Unidisk— A Closer Look

A mass storage device is one of the critical components of your personal computer system purchase, because whenever you work with important information, you will want to save it onto floppy diskettes for future use. Ideally, your system should include two floppy disk drives so that you can easily back up your files—eliminating the danger of losing vital information.

Duodisk and Unidisk maintain the same unsurpassed quality control as Apple's original Disk II and Disk III systems, the most widely used personal computer disk drives in the world. Like their predecessors, Duodisk and Unidisk utilize single-sided floppy diskettes that meet the needs of most storage applications. Sleek and reliable in design, Duodisk and Unidisk perform equally well on any computer in the Apple // or /// families, though each has specific recommended applications.

If you are considering an Apple //e personal computer, you would probably benefit most from Duodisk, because of its inherent two-drives-in-one back-up capability. Furthermore, Duodisk matches the contours of the Apple // family, allowing it to be placed neatly between the computer and the monitor.

If you already own a computer in the Apple // family with one disk drive, however, you should seriously consider Unidisk as your back-up drive. Unidisk would also be your most sensible option if you are considering an Apple /// personal computer, because it would give you desired back-up capability, when used in conjunction with your Apple ///'s built-in drive.

Apple offers five different accessory kits that allow you to easily connect Unidisk and/or Duodisk systems to any Apple // or /// in any configuration.

System Configuration

To use Unidisk or Duodisk you will need:
- any computer system in the Apple *II* or *III* families;
- an appropriate Apple Accessory Kit.

Technical Specifications

(Except for physical dimensions, the technical specifications are the same for both Duodisk and Unidisk.)

Format:
Recording surfaces: one
Tracks per surface: 35

Capacity:
Formatted data capacity: 140K bytes, 16-sector format (with Pascal and DOS 3.3. or SOS)
Available data capacity: 137K bytes as a data disk under Pascal or SOS.
  124K bytes as a data disk under DOS 3.3.
  *Data disk is a formatted disk with directory but no language.

Characteristics:
Seek Settle Time Track-to-track: 30 milliseconds maximum
Drive Motor Start Time: 0.5 milliseconds maximum

Power Consumption:
Unidisk
  +12 ± 0.6 VDC
  0.9 A (typical), 1.5 A (maximum)
  +5 ± 0.25 VDC
  0.1 A (typical), 0.7 A (maximum)

Duodisk
  +12 ± 0.6 VDC
  0.9 A (typical), 1.5 A (maximum)
  +5 ± 0.25 VDC
  0.4 A (typical), 0.8 A (maximum)

Head Positioning:
Adjusted to ±.00125 maximum deviation from ideal on track.

Environmental Characteristics:
Operating Temperature: 10-46 degrees Centigrade (50-115 degrees Fahrenheit)
Operating Humidity: 20-80% Non-Condensing

Drive Dimensions
Unidisk
  Length: 216. 0 mm (8.50 inches)
  Width: 162.0 mm (6.38 inches)
  Height: 79.6 mm (3.13 inches)
Duodisk
  Length: 216.0 mm (8.50 inches)
  Width: 371.5 mm (14.63 inches)
  Height: 79.6 mm (3.13 inches)

Duodisk Order No. A9M0108

With your Duodisk order you will receive:
- Duodisk dual disk drive (the main box);
- warranty card.

Unidisk Order No. A9M0104

With your Unidisk order you will receive:
- Unidisk single disk drive (the main box);
- warranty card.

(The following accessory packages contain cabling and other parts that allow you to connect Unidisk or Duodisk to specific Apple computer systems.)

Unidisk/Duodisk Accessories for Apple *II* family computers Order No. A2T0108 (includes DOS 3.3)

Unidisk/Duodisk Accessories for Apple *III* or Disk *III* Order No. A3C0108

Accessories for Additional Unidisk/Duodisk Order No. A9C0108

Unidisk Accessories for Apple II/II Plus with Disk II Controller Order No. A2C0104