



## UNIVERSAL MASS STORAGE

for MICROCOMPUTERS

8 • 16 • 25 • 40 • 65 • 92 MEGABYTES



### COMPATIBLE WITH OVER 20 DIFFERENT MICRO COMPUTERS INCLUDING

Apricot  
Apple II  
Epson QX-10  
IBM P.C.  
KAYPRO  
Apple Lisa

Macintosh  
Texas Instrument  
Victor/Sirius  
Leading Edge  
Zenith 100/150  
IBM P.C. Compatibles

Televideo 1608  
Future  
Socketed Z80 Micro Computer  
Eagle

#### •SUN★DISK

Using Run Length Limited Coding.  
8, 16, 25, 40, 65, and 92 Megabytes/Drive of usable storage capacity (up to 4 drives per controller for a total of 368 Megabytes).

#### •SUN★NET

Networks up to 64 various microcomputers and 7 different operating systems all on the same SUNOL disk.

#### •SUN★SAFE

Random Access Back-up Tape System with removable 23 megabyte tape cartridge. The tape back-up is accessed like a disk, providing the user both file back-up and total disk back-up.

#### •SUN★SHARE

Provides a common storage area to be accessed by all users. Allows transfer of files between different types of operating systems, disk formats, and to the SUN★SERVER.

#### •SUN★SERVER

Printer/communication server consisting of two serial RS 232 ports. Accommodates two printers or two modems or a combination. Automatically handles multiple printing and communication tasks without user intervention.

#### •HIGH RELIABILITY

Utilizes Error Correcting Code to automatically correct read errors.

#### •COMPREHENSIVE DISPLAY

Dynamic display of the disk drive provides the user with the exact Status, Track, Head, Sector, and much more.

#### •HIGH PERFORMANCE

50% faster transfer rate, 7.5 vs. 5.0 million/second.  
Large 16,384 Byte data buffer on the Sunol controller.

**For Micro Computers**

**SUN\*DISK**

Add Mass Storage to your MICRO COMPUTER SYSTEM.

Sunol Systems offers the latest and most advanced Mass Storage Technology with up to 60% more usable storage. Formatted usable storage capacities per disk are 8, 16, 25, 40, 65, and 92 megabytes. Up to four disk drives can be linked together for a total available mass storage of 368 megabytes. (Larger capacity disk drives will be available soon). Sunol's large on-line Mass Storage SUN\*DISK will eliminate time consuming floppy disk swapping and provide a more reliable and secure system.

**SUN\*SAFE**

Random Access Back-up Tape System.

The attractive cabinet Sunol provides allows for the addition of an optional removable tape cartridge back-up device. This removable tape cartridge is a standard 1/4 inch tape with up to 23 megabytes of storage. Tape cartridges are inexpensive and provide for rapid back-up of information. Unlike streaming tape drives, Sunol's SUN\*SAFE Random Access Back-up Tape System is accessed like a floppy disk providing the user with the ability to back-up and restore a single file or the entire disk. Standard operating system commands are used to read and write to the tape.

**SUN\*NET**

Networking available to expand with your needs.

Sunol Systems provides the ability for any user to connect into our advanced local area network, SUN\*NET™. SUN\*NET™ enables up to 64 users of various micro-computers like Apple II, III, DEC, Epson QX-10, Kaypro, NEC P.C.-8000, Northstar, Osborne, S-100, Texas Instruments, TRS-80 Model I, II, III, Victor, Xerox, Zenith Z89/90/100, I.B.M. P.C., I.B.M. P.C. Compatibles,

and other microcomputers to share the same storage. The Sunol Universal Mass Storage Disk Drive will support up to 7 different operating systems such as CP/M 80, MSDOS, UCSD-PASCAL, and CP/M 86, simultaneously. SUN\*NET™ is compatible with Corvus, Omninet, P.C. Net, Ethernet. Also SUN\*NET™ can work simultaneously together with the other local area networks on the same Sunol disk drive.

**FILE LOCKING**

Data Security and Protection.

Sunol's universal networking disk supports file locking and unlocking which prevents two or more different users from updating the same file at the same time.

**SUN\*SHARE**

Universal Shareable Data.

SUN\*SHARE provides a common storage area which may be accessed by all users regardless of operating systems or disk format. This common storage area is used for transferring files and programs to different users with different operating systems or to the SUN\*SERVER for printing or communication. For example, a user that has a data base in a TEXAS INSTRUMENTS computer and wants to transfer it to the APPLE can easily accomplish the task without having to face the laborious job of re-typing the entire data base. SUN\*SHARE also provides the users the additional benefit of being able to utilize a peripheral device which is connected to a specific microcomputer. Through SUN\*SHARE that device now becomes available to all users on SUN\*NET.

**SUN\*SERVER**

Intelligent Communication/Printer Server.

SUN\*SERVER is a printer/communication server consisting of two serial RS 232 output

ports. This device connects to SUN\*NET and will accommodate two printers or two modems or a combination of both. In addition this intelligent server automatically handles multiple printing and communication tasks without user intervention. The SUN\*SERVER utilizes the SUN\*SHARE common storage area to receive, store, and forward data and files from any user. SUN\*SERVER is available to any user on the network and provides the users the ability to use common printers and or modems.

**RELIABILITY**

Automatic Error Correcting.

Reliability has been designed into every product and starts with our advanced recording method called Run Length Limited coding (RLL). Run Length Limited has been used for years and has proven to be far superior to the M.F.M. method. Sunol Systems is the only company which offers Run Length Limited on 5 1/4 Winchester. Also included in every Mass Storage unit is automatic Error Correction Code (ECC). The Error Correction Code guarantees high performance and reliable data transfer, and also automatically detects and corrects errors without the users intervention. The display console provides instant and complete status of the Mass Storage Unit indicating current drive selected, head, sector, track and status code plus more. The stand alone diagnostics quickly isolates any problem. And best of all, Sunol Systems Disks require no preventative maintenance.

**HOST ADAPTERS**

There are over 20 host adapters available for the Mass Storage Unit.

**SPECIFICATIONS**

MODEL NUMBER	SSD8	SSD16	SSD25	SSD40	SSD65	SSD92
<b>STORAGE CAPACITY PER DRIVE</b>						
USABLE CAPACITY (MEGABYTES)	8	16	25	42	65	92
DATA TRANSFER(MILLON/SECOND)	7.5	7.5	7.5	7.5	7.5	7.5
<b>ACCESS TIME (MILLISECONDS)</b>						
TRACK TO TRACK	3MS	3MS	3MS	5MS	5MS	5MS
AVERAGE ACCESS TIME	70MS	70MS	70MS	30MS	30MS	30MS
HEAD SETTLLING TIME	15MS	15MS	15MS	NA	NA	NA
<b>RELIABILITY</b>	11,000 Power on Hours					
<b>PHYSICAL DIMENSIONS</b>	11 in. Wide x 8.5 in. High x 20 in. Deep					
<b>WEIGHT</b>	Approx. Shipping Weight 25 lbs.					
<b>ENVIRONMENTAL LIMITS (OPERATIONAL)</b>						
AMBIENT TEMPERATURE	50° to 115° F					
RELATIVE HUMIDITY	8% to 80%					
<b>POWER REQUIREMENTS</b>						
VOLTAGE	110 or 220 VOLTS (SELECTABLE)					
FREQUENCY	50/60 Hz SINGLE PHASE AC					
TYPICAL CONSUMPTION	78 WATTS					

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