

# 4907

# TEKTRONIX

Low cost mass storage, compatible with 4050 Series Graphic Computing Systems

## File Manager

**Now you can command a high-capacity, highly reliable mass storage device with built-in file manager and controller.** Our 4907 brings together more advanced capabilities and conveniences than you'll find integrated into any comparable peripheral. Yet its ease of operation and compact design make it a natural companion to 4050 Series Graphic Computing Systems.

The 4907 is a direct access, flexible disc device, with a double density read/write feature that enables up to 630,000 byte capacity per disc.

Built-in ROM's and special File Manager ROM Pack contain the 4907 operating system. No read/write memory is required by the 4907 or ROM Pack. No boot-strapping of system software is ever required. An advanced multiple level file-by-name system (each name up to 10 characters, plus 4 character extension) includes a directory that maintains user files, passwords and available space.



### Major features and capabilities contained within the 4907:

- Double-density read/write
- High-level system software
- 630,000 bytes per disc total user-available space
- Disc Caching (data buffering) in 15 caches of 256 bytes each
- Up to 9 simultaneously open files
- Password protected library capability
- Implementation of execute-only (secret) files
- ASCII and Binary data and program storage and retrieval
- Automatic data recovery retry
- Built-in system utilities
- Time-date stamp on files
- Cyclic Redundancy Checking (CRC) for greater reliability
- Named file saves
- Dynamic file expansion
- Real time clock
- GPIB (IEEE 488-1975) compatible

As an option, up to two additional disc drives can be connected to one 4907. It is compact enough to fit on a desktop or on a rack mount.

Software commands are extensive, as you'd expect from one of the most talented file managers and mass storage devices on the market. Command structure includes the following:

## File Management Commands

ASSIGN	Allows changing of file attributes
CLOSE	closes one or more files
COPY . . . TO	copies one or more files from one file to another
CREATE	creates file space on disc
DIRECTORY	lists information about files
DUP	DUPLICATE copies one disc to another
FILE	returns status of named file
KILL	deletes existing file
NEXT	opens next file in a group of files
OPEN	identifies file, type of access and returns status
RENAME	changes names of files, libraries, passwords and extensions
REWIND	repositions pointer to beginning of sequential file
SPACE	reduces or increases assigned file space

## File I/O Commands

APPEND	adds program lines to program currently in memory
INPUT	retrieves ASCII data from disc
OLD	loads BASIC program from disc into memory
PRINT	stores ASCII information on disc

READ	retrieves binary data from disc
SAVE	stores program presently in memory, on disc
SECRET	prevents future listing or copying of a binary program
WRITE	stores binary information on disc

## System Commands

DELALL	DELETE ALL closes all disc files and erases memory
INIT	initializes File Manager
SETTIM	SET TIME initializes system clock
TIME	reads system clock
UNIT	allows selection of disc drive
USERLIB	allows specification of user library file name for repeated access

## Controller Device Commands

COMPRS	COMPRESS collects free space on disc into larger blocks
CUSTAT	CONTROLLER UNIT STATUS generates and returns the status of all discs interfaced to the File Manager ROM Pack
DISMOUNT	removes specified disc from system use
DREL	DEVICE RELEASE releases previously reserved device
DRES	DEVICE RESERVE provides exclusive device control by user
DSTAT	DEVICE STATUS returns status of addressed device
FFRMT	FAST FORMAT formats disc without disc surface analysis
FMVALS	FILE MANAGER VALUES return to the program or user the number of the current device and the name of the current library

FORMAT	prepares new disc for data storage
HERRS	HARD ERROR STATUS returns number of soft and hard errors since power up
MOUNT	informs system that specified disc is in place and may be used
MRKBBG	MARK BAD BLOCK GROUP allows marking and bypassing of defective sectors

## General Information

### Specifications:

#### Technical:

Total number of tracks per disc:	77 max
Number of user-available tracks:	77 max
Number of sectors per track:	32
Number bytes per sector:	256
Total user-available storage per disc:	630,000 characters
Rotational speed:	360 rpm
Average access time:	340 ms
Transfer time:	4.2 ms/sector

### Power requirements:

100VAC to 240VAC, 50 Hz to 60 Hz

### Power consumption:

200 watts at 120VAC, 6 Hz Max.  
2 amps

### Dimensions:

Width—52 cm (20.28")  
Depth—64 cm (25.75")  
Height—19.5 cm (7.7")  
Weight—27.5 kg (60 lbs.)

### Environmental Range:

System operating temperature range:  
10°C to 35°C (ambient)  
Storage temperature:  
-30°C to +60°C (without media)  
Relative humidity:  
20% to 70% (25.5°C max wet bulb temperature)  
Heat dissipation: 275 BTU/hr max



**Standard Accessories:**

4907 Installation Guide  
File Manager ROM Pack  
File Manager Operator's Manual  
File Manager Pocket Reference  
Card  
Line cord  
GPIB cable  
Flexible disc (1)  
Cleaning pads

**Optional Accessories:**

Second (Opt. 30) and third (Opt. 31)  
disc drives  
Flexible discs (10 per package)  
4907 Service Manual  
GPIB cable (4 meters)

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