

**RAVE 99**

*"99/4A Products to Rave About"*

**MODEL MX01**

**RAVE\_OS SOFTWARE**

**INSTALLATION AND OPERATING MANUAL**

C O P Y R I G H T

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INTRODUCTION  
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The RAVE 99 MX01 RAVE\_OS SOFTWARE provides an easy and efficient human interface to the MX01 card. All of the MX01 card resources may be accessed via this program and the management of these resources is also maintained with this program.

This program allows easy access to the normal operations you would likely find yourself performing on a daily basis such as running programs, displaying files, printing files, and deleting files. Cataloging of disks is also available from the program. Many new features have been added so that all of the file oriented operations may now be directly performed from within a disk catalog.

Managing other programs is another major task of the RAVE\_OS. It allows monitoring of RAMDISKs and memory allocation. Also, access to the RAVE 99 MACRO Loader is made from this software which allows keyboard MACROs to be used in any E/A 5 type file. This is a very important feature as it approaches a BATCH style operation. The use of Keyboard MACROs greatly reduces typing and most likely will be the most used feature of this program.

Please be sure to read this manual to avoid problems later on. The MX01 RAVE\_OS SOFTWARE is powerful and exciting and is easy to use once the Commands and System concepts are understood. Please take your time and enjoy this powerful new addition to your TI system.

Requirements  
-----

To use the MX01 RAVE\_OS SOFTWARE you need:

- a) TI-99/4A console and TV or monitor.
- b) 99/4A Peripheral Expansion System (PEB).
- c) TI compatible Disk controller card
- d) At least one floppy disk drive.
- e) The following Command Module:  
    Editor/Assembler
- f) MX01 Memory Enhancement System with 64K bytes or more of memory.

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LOADING the MX01 Optional SOFTWARE

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The instructions below represent a step by step method for loading the MX01 Optional SOFTWARE. The instructions are provided this way to allow easy loading with minimal problems. A more detailed description of what is taking place is described after this section. It's important to follow the steps in order.

CHECK THAT THE MX01 Memory Card CRU ADDRESS is SET for >1000.  
REFER TO MX01 MEMORY MANUAL IF REQUIRED.

IT IS RECOMMENDED THAT YOU MAKE A WORKING COPY OF THE RAVE\_OS PROGRAM DISKETTE AND KEEP THE PROGRAM DISKETTE IN A SAFE PLACE.

1. Insert RAVE 99 RAVE\_OS Program Disk into Drive 1. 2
2. If a previous version of the RAVE\_OS SOFTWARE is already installed, check that none of RAMDISKS have been assigned Drive #1. If it is, reassign it to an unused Drive Number.
3. Using the E/A Cartridge - Option #5, start the LOAD sequence by typing "DSK.RAVE99.LOADMX" and press "ENTER".

This step loads the following files:

```

ROS      - MX01 RAMDISK "DSR"
MACRO    - MX01 "MACRO" LOADER
RAVE_OS  - MX01 "RAVE_OS" and SYSTEM PROFILE SCREENS"

```

If you are going to use RAMDISKS with the MX01 card, proceed at this time to the MX01 RAMDISK Manual for Initializing instructions.

The following sections describe each of the screens available and associated commands.

SYSTEM SCREENS OVERVIEW

-----

Three "System" screens are available which provides "control" over which operations are to be performed by the computer. This is accomplished without the necessity of having a cartridge installed in the system. The three screens are:

```

PROGRAM MENU SCREEN 1, see FIGURE #1
PROGRAM MENU SCREEN 2, see FIGURE #2
SYSTEM PROFILE SCREEN, see FIGURE #3

```

The System screens are available by typing "CALL RAVE\_OS" from TI-BASIC which is referred to as manual mode. AutoMatic operation is available which provides the System Screens whenever the computer is turned ON or when a "SYSTEM RESET" is executed. Selection of the modes is controlled on the SYSTEM PROFILE SCREEN.

```
RAVE 99 Co. V1.3
=====
1 Show Directory
2 Display A File
3 Run Program, STD Loader
4 Run PProgram, MACRO Loader
5 Editor
6 DM1000
7 option 3
8 option 4
9 option 5
C EDITOR/ASSEMBLER
```

FIGURE #1 - MENU SCREEN 1

```
RAVE 99 Co. V1.3
=====
1 option 6
2 option 7
3 option 8
4 option 9
5 option 10
6 option 11
7 option 12
8 option 13
9 option 14
C EDITOR/ASSEMBLER
```

FIGURE #2 - MENU SCREEN 2



RAVE 99 MX01 System Profile			
=====			
Memory	#32K Banks	1	AF
System	16 ( 512K)	2	A0
RamDisk	15 ( 480K)	3	TD
User	1 ( 32K)	3	TD
AutoBoot:	ON	4	CF
SuperCart:	ON		
RamDisks	Size	5	C0
RAMDISKA	1440	6	128K0S
RAMDISKB	360	7	DN
RAMDISKC	119	8	MEMCFG
		9	RAMDSK
1st RamDisk Drive # 3 Name RAMDISKA			
2nd RamDisk Drive # 4 Name RAMDISKB			

FIGURE #3 - SYSTEM PROFILE SCREEN



PROGRAM MENU SCREEN 1, see FIGURE 1, provides utilities to display and print Directories, Display Files, and Run "PROGRAMS" type files. Running of user specified E/A type 5 Files ( options 3 - 5) and Cartridge programs are also available.

PROGRAM MENU SCREEN 2, see FIGURE 2, allows Running of user specified E/A type 5 Files (option 6 - 14) and Cartridge programs.

The "SYSTEM PROFILE SCREEN, see FIGURE 3, provides information on how the MX01 card is configured. Parameters such as "Total memory in System", Memory reserved for RamDisks, memory reserved for "User" Banks, Auto Boot Control, SuperCartridge memory control, Names and Size of RamDisks, Formating of RamDisks, and RamDisk Drive # Selection are all features of this very important screen.

All of the above screens have "SPECIAL KEYS" which are active on the screens indicated. These keys provide additional features with a press of a single key.

KEY	ACTION	ACTIVE SCREENS
0	Blanks the Screen	1, 2, 3
1	Display Disk Directory on Monitor	1
SHIFT 1	Print Disk Directory on Printer	1
2	Display File on Monitor	1
SHIFT 2	Print File on Printer	1
3	RUN PROGRAM, standard Loader	1
4	RUN PROGRAM, MACRO LOADER	1
5-9	User Configurable options	1, 2
B	Go into TI-BASIC or program in Grom 1.	1, 2, 3
C	Run the installed Cartridge	1, 2, 3
D	Toggles 48 Different Color Combinations	1, 2, 3
P	Change printer Device Name	1, 2, 3
S	Swithes from Grom to Rom Cartridge	1, 2, 3
T	Toggles RamDisks through 2nd Drive #	1, 2, 3
X	Loads RAVE 99 Version of MYARC XBII	1, 2, 3
FCTN 5	Configure User Options	1, 2
FCTN 9	Go back to where you came from	1, 2, 3
FCTN =	Reset the computer	1, 2, 3

=====

If a TI compatible clock is attached, the time is displayed in the upper right coner of all screens.

#### PROGRAM MENU SCREEN 1

-----

The following sections describes the features available on this screen. See FIGURE #1.

#### SHOW DIRECTORY

-----

Press 1, the screen is cleared, and you are prompted for a disk number. Press 1-9 for a disk directory. A small "d" to indicate a display variable type file, and a large "D" to indicate a fixed length file. The same is true for internal type files.

A disk directory, as described above, may be sent to a printer by just pressing SHIFT 1 from the main menu. A reverse video "P" at the top right corner of the screen serves as a reminder that the disk directory will go to the printer (PIO) in a full 80 column format.

To change the printer name during this session, press "P" from the main menu. A prompt at the bottom of the screen will allow the output device name to be changed for this session only. The print device is opened in append mode which allows a disk file to be assigned as the printer and append files or directories to it.

If there is more than one page of files, a message is displayed, and by pressing S, the directory is stopped, use the space bar or up/down arrow keys to mark (reverse video) a file. To continue the disk directory, just press the spacebar. When a filename has been marked, press ENTER to move that filename into the filename input prompt for the View or Run file option, which are discuss later.

Available commands are always displayed at the bottom of the screen. Active keys on the disk catalog screen are FCTN 8 (redo, for another disk), FCTN 9 (back to the menu), 1-9 (to catalog another drive) and of course the four arrows and the enter key.

#### FILE OPERATIONS within the Show Directory Command

-----

Their may be times when exploring a new disk requires frequent access to a disk directory. Viewing, Printing, Running, and other file operations require leaving the directory, perform the file operation, and once completed, return to the disk directory. To allow a more efficient operation, file commands are now available from within a disk directory.

To use the file commands, the filename must first be marked by using the arrow keys. Once the filename is highlighted, type the first letter of the command you wish to perform. ie type "R" to RUN a program.

=====

The commands available within the disk directory are described below.

View File - Press "V" to display the marked file. After completing, the program returns to the disk directory.

Print File - Press "P" to Print the marked file. The entire file is printed without intervention and is also displayed on the monitor. After completion, the program returns to the disk directory.

Delete File - Press "D" to Delete the marked file. The system prompts for conformation to delete the file. Type "Y" to delete, "N" to abort the command. If the file is protected, an error message is generated and the command is aborted. After completing, the program returns to the disk directory.

Run File - Press "R" to RUN the marked file. The file must be a "PROGRAM" type file. In general, "RETURNS" from a running program is not always predictable, but will most often return to the TI-Title screen. If AutoBoot is selected, then the RAVE\_OS program is run.

Toggle Disk- Pressing "T" in a catalog toggles the 2nd RAMDISK volume name and automatically does a directory of the RAMDISK. Refer to section "Toggle Disk" of this manual for more details on this command.

#### DISPLAY A FILE

-----

Press 2, to view any type of file on any disk. Either type in the filename to view, or mark the file with the Show directory command as stated above. When typing in the filename, all lowercase entries are changed to uppercase. To enter lowercase characters, just hold the CTRL key and press the desired key. Lowercase character will be entered. Again, the available options are shown on the bottom of the screen. Press FCTN 9 to abort the viewing, or any other key to page through the file. If you'd like to rapidly scroll through the file, press FCTN 8 (redo). Reading will continue until the end of file is reached, or you press the space bar.

To send the file to the printer, press SHIFT 2 from the main menu instead of 2. The file that appears on the screen will also be output to the printer. To print the whole file without paging through it manually, just press FCTN 8 (redo) when prompted to "Press any key, or FCTN 9 to abort". The complete file will be

=====  
 output to the printer (or whatever device assigned as the printer with "P" as described above), without further intervention. To halt the scrolling, just press the SPACEBAR.

#### PROGRAM LOADERS OVERVIEW

-----

Two Program Loaders are available for "Loading" and "Running" PROGRAM type files from the System Screen 1. The PROGRAM file to be RUN must be a machine language E/A 5 type or Extended BASIC program. Trying to RUN an Extended BASIC program without the Extended BASIC cartridge installed will cause an error message to be displayed.

The first loader is referred to as the "STANDARD" Loader and is the same loader as used in the Editor/Assembler cartridge, option#5. This loader is part of the RAVE\_OS System Software.

The second loader is referred to as the "MACRO" Loader and loads programs in the same way as the "STANDARD" loader with the addition that "Keyboard MACRO's" are made available to the program being loaded. This loader is part of the optional "KEYBOARD MACRO'S" program and is sold separately.

The "STANDARD" loader is generally used when Keyboard MACRO's are not being used. It may also be used to "DISABLE" active MACRO's temporarily for a program by using this loader. This would typically be done if a MACRO Key Definition (ie CTRL-E) interfered with a program's normal key usage. This loader is also used when a program needs to save its memory image. See the Keyboard MACRO Manual for more details.

The "MACRO" loader is used when the program being loaded is to use Keyboard MACRO's. The use of Keyboard MACRO's reduces significantly the amount of typing required for many programs. This loader should not be used if the program is going to save its memory image. See the Keyboard MACRO Manual for details.

#### RUN PROGRAM, STD Loader

-----

Press 3 to RUN a Program using the STANDARD loader. Enter a filename when prompted for one. By marking a program filename while in the Show Directory command, its name will be used in the default prompt. When typing the name manually, the input routine changes all lowercase entries to upper case.

#### RUN PROGRAM, MACRO Loader

-----

Press 4 to RUN a Program using the MACRO loader. Enter a filename when prompted for one. By marking a program filename while in the Show Directory command, its name will be used in the default prompt. When typing the name manually, the input routine changes all lowercase entries to upper case. Programs loaded via this loader will be able to use the Keyboard MACRO's within the program.

=====
  
EDITOR
  
=====

Press 5 to load TI-WRITER. It operates just like from cartridge except that the SHOW DIRECTORY option is not available. After finishing with TI-WRITER, normal termination will return to the program menu screen.

DM1000
  
=====

Press 6 to load DM1000 V3.5 . It always attempts to load from Drive #1. If the first RAMDISK is not Drive #1, it first access the real Drive #1. If it is not found there, it then continues to search the other Drives until it is found. Assigning the first RAMDISK Drive number as number 1 eliminates this delay. To terminate this program type "FCTN-Q".

USER CONFIGURED PROGRAM OPTIONS
  
=====

Selections 7-9 allow the user to assign numbers to programs which are frequently used so they may be RUN by "PRESSING" only the number assigned to it. Press "FCTN-5" to enable the configuration of the program titles and program filenames. See below:

- [7] Program Title 1  
DSK1.FILENAME1
- [8] Program Title 2  
DSK1.FILENAME2

The first line is the "PROGRAM TITLE" and allows the user to give the program a TITLE up to 25 characters long. The "PROGRAM TITLE" may contain both upper and lower case characters. Press "ENTER" or the DOWN arrow to get to the "PROGRAM FILENAME" line. This line describes where the program may be found. The "PROGRAM FILENAME" must contain only upper case characters. Typing lower case characters are automatically converted to upper case.

If the program is located on the first RAMDISK, the "\*" may be used to identify this drive instead of the actual drive number. ie(DSK\*.ED). Using the "\*" allows the system to find the program filename even if the drive number changes.

After the completing the entries, press "FCTN-9" to initiate the "SAVE" process. Press "FCTN-9" a second time to Abort the SAVE operation. Press ANY other key to continue the SAVE operation.

Selection of which loader to use is also possible. An "M" below the option number indicates the MACRO loader is used to load this program. A "SPACE" below the option number indicates the STANDARD loader is used to load this program.

PRESS "FCTN-7" to toggle between the two loaders.

- [7] Program Title 1           <- USES MACRO LOADER  
  M DSK1.FILENAME1
- [8] Program Title 2           <- USES STANDARD LOADER  
  DSK1.FILENAME2

=====  
 TI-BASIC  
 -----

Typing a "B" will select and enter TI-BASIC, as if it had been selected from the TI Main menu.

 CARTRIDGE SELECTION  
 -----

If a cartridge is installed, it's name appears next to the "C" option. Press C to run a cartridge. Remember, to run any extended basic programs, the Extended Basic Cartridge must be installed! To determine if a cartridge is installed, a check is first made for a valid Grom header and if found, it's name is displayed next to the "C". If not found, a check for a valid ROM header is performed, and if found, it's name is displayed next to the "C".

With the SuperCartridge as part of the MX01 card, it is quite possible to have both a valid GROM and ROM headers at the same time. An example of this would be to have both the E/A cartridge GROM and FUNNELWRITER V4.0 loaded into the MX01 SuperCartridge ROM memory space. To select the ROM header, press "S" and the ROM name will now appear next to the "C". Typing "C" now will run the ROM program.

 PROGRAM MENU SCREEN 2  
 -----

The following sections describe the features available on this screen, see FIGURE #2. This screen is entered by pressing the SPACE BAR while in PROGRAM MENU SCREEN 1.

 Options 6 - 14  
 -----

Option 6 - 14 allows additional programs to be added to the menu display which allows single key access to these programs. Configuration of Program titles and filenames is the same as on PROGRAM MENU SCREEN 1.

 CARTRIDGE SELECTION  
 -----

Same as PROGRAM MENU SCREEN 1.

 SYSTEM PROFILE SCREEN  
 -----

The SYSTEM PROFILE SCREEN, see FIGURE #3, is displayed after pressing the SPACE BAR when in PROGRAM MENU SCREEN 2. This screen is full of features which are described below.

 System Memory  
 -----

During power-up or during a computer reset, the MX01 DSR determines the total amount of memory in the MX01 system. This number is displayed as "N" number of 32K byte memory Banks and also as straight number of thousands of Bytes.

Memory	#32K Banks
=====	=====
System	16 ( 512K)

RamDisk Memory

The amount of memory allocated for RAMDISK usage is displayed here. It is displayed as "N" number of 32K byte memory Banks and also as straight memory of thousands of bytes.

Memory #32K Banks
=====
Ramdisk 15 ( 480K)

The amount of memory available for RAMDISK usage is calculated as shown below:

RamDisk Memory = System Memory - User Memory

User Memory

The amount of memory allocated for User memory is displayed here. It is displayed as "N" number of 32K byte memory Banks and also as straight memory of thousands of bytes.

Memory #32K Banks
=====
User 1 ( 32K) <----- 8 MEMCFG

Pressing "8" allows the changing of the User memory value. After pressing "8", the User # is highlighted in reverse video. Type the new number in and the operation is complete. The amount of RamDisk Memory is adjusted as a result of changing this parameter. The User # is normally set to 1 to replace the TI 32K card. This number may need to be changed for other applications such as RAVE 99 modified version of MYARC XBII. In this case, 128K of memory is required for this application so the # of User Banks would be changed to 4. Other application programs may have other requirements.

AutoBoot

The RAVE\_OS system screens may be selected using two methods. The first one requires that "CALL RAVE\_OS" be typed from either of the two BASIC's. The second method automatically starts whenever the computer is turned ON or a System Reset is generated. The second method is referred to as AutoBoot. The current state of this selection along side the AutoBoot status line, see below.

AutoBoot: ON <----< /--1 AF Turn's AutoBoot OFF
@--2 A0 Turn's AutoBoot ON

Pressing "1" turn's the AutoBoot OFF while Pressing "2" turn's it ON. The pressing of 1 and 2 actually perform the SYSTEM calls AF and A0 respectfully. These calls are covered later in this manual.

## SuperCart

The SuperCartridge memory built into the MX01 card may be turned ON or OFF depending how the system is being used. In general, this memory should be ON and must be ON if the RAVE 99 modified version of MYARC's XBII is being used. The SuperCartridge memory checks for conflicts with cartridges installed in the console and disables itself during this time. Once the conflicting cartridge is removed, the SuperCartridge will reEnable itself automatically if the SuperCart selection is set to ON. The current state of this selection is displayed alongsides the SuperCart status line, see below.

```

SuperCart: ON <---< /--4 CF   Turn's SuperCart OFF
                  @--5 C0   Turn's SuperCart ON

```

Pressing "4" turn's the SuperCart OFF while Pressing "5" turn's it ON. The pressing of 4 and 5 actually perform the SYSTEM calls CF and C0 respectfully. These calls are covered later in this manual.

## RamDisk Drive Assignments

At the bottom of the System Profile Screen, the last two lines display the Drive #'s which are assigned to the first and second RAMDISK. Refer to RAMDISK manual for more details.

## RamDisks-Names, Sizes, and Formatting

This part of the System Profile Screen provides the utilities for creating and formatting RAMDISKS. Up to 10 RAMDISKS may exist on the MX01 Memory Enhancement System with total sectors as small as 3 and up to 1440. Refer to the RAMDISK manual for more details.

## Toggle Disk

There are two Drive # available for RAMDISK usage. One is always available for the first RAMDISK defined. The system was designed this way so that programs could be quickly found on a default RAMDISK. The 2nd Drive # is shared by RAMDISKS defined as 2 through 10. The 2nd defined RAMDISK is initially assigned the second Drive #. This allows direct access to that RAMDISK. The rest of the RAMDISKS(3-10) may still be accessed if it via their Volume name. To allow another of the RAMDISKS to have direct access, the TD command is used. This command takes the next available RAMDISK name and assigns it the 2nd Drive #. When no more RAMDISKS in the list exist, the list is started over, starting with the second defined RAMDISK. Refer to the RAMDISK manual for more details.

## 128KOS

RAVE 99 modified version of MYARCS XBII is loaded from BASIC using the SYSTEM CALL "CALL 128KOS". This may now be executed from all of the screens by pressing "X". It is also available from the System Profile Screen by pressing "6", see FIGURE 3. This program is an option for the MX01 card and is sold separate by RAVE 99. The "X" command is ignored if this program is not available.

## CALL SUBPROGRAMS

The RAVE\_OS System DSR contains the following CALL Subprograms which may be used directly from TI-BASIC either within a Running program or in Command Mode. Below are the descriptions of each CALL Subprogram supported by the RAVE\_OS DSR.

CALL DN.X(Y) - Change Ramdisk drive number.

The X and Y MUST BE A SINGLE DIGIT FROM 1 TO 9.

X is the current ramdisk drive # "Y" is the NEW RAMDISK DRIVE number for X. Refer to RAMDISK manual for more details.

CALL TD - TOGGLE RAMDISKS

This call toggles the next ramdisk on the card into the second ramdisk dirve number. Now this RAMDISK may be by drive number instead of only by VOLUME name. Refer to RAMDISK manual for more details.

CALL CO - CARTRIDGE RAM ON

This subprogram turns "ON" the CARTRIDGE memory space at >6000 -> >7FFF. At power-up, this space is turned "OFF" by the hardware. When the RAVE\_OS DSR is scanned at power-up, a check is made to determine if a cartridge is using this space. If not, this space is returned to its last known state(ON or OFF). If a cartridge uses this space, the Cartridge memory space is left "OFF".

CALL CF - CARTRIDGE RAM OFF

This subprogram turns "OFF" the Cartridge Memory space at >6000 -> >7FFF.

CALL A0 / AF - POWER-UP ON/OFF.

The CALL A0 allows the system to AUTO-BOOT at power-up. The CALL AF disables this feature.

CALL RAVE\_OS - RUNS "RAVE\_OS" program.

## =====

## THREE-MONTH LIMITED WARRANTY

This RAVE 99 MX01 RAVE OS SOFTWARE Warranty Extends To The Original Consumer Purchaser of the Accessory.

## WARRANTY DURATION

This MX01 RAVE OS SOFTWARE is Warranted for a period of three(3) months from the date of the original purchase by the consumer.

## WARRANTY COVERAGE

This MX01 RAVE OS SOFTWARE is Warranted against defective materials or workmanship. THIS WARRANTY IS VOID IF THE ACCESSORY HAS BEEN DAMAGED BY ACCIDENT, UNREASONABLE USE, NEGLIGENCE, IMPROPER SERVICE OR OTHER CAUSES NOT ARISING OUT OF DEFECTS IN MATERIALS OR WORKMANSHIP.

## WARRANTY DISCLAIMERS

ANY IMPLIED WARRANTIES ARISING OUT OF THIS SALE, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE ABOVE THREE-MONTH PERIOD. RAVE 99 SHALL NOT BE LIABLE FOR LOSS OF USE OF THE SOFTWARE OR OTHER INCIDENTAL OR CONSEQUENTIAL COSTS, EXPENSES, OR DAMAGES INCURRED BY THE CONSUMER OR ANY OTHER USER.

Some states do not allow the exclusion or limitation of implied warranties or consequential damages, so the limitations or exclusions may not apply to you in these states.

## LEGAL REMEDIES

This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

## WARRANTY PERFORMANCE

During the above three month period, your MX01 RAVE OS SOFTWARE diskette will be replaced with a new diskette of the same or equivalent model(at RAVE 99's option) when the diskette is returned by prepaid shipment to RAVE 99 at the address below. Other than the postage requirement, no charge will made for replacement of in-warranty units.

## REPLACEMENT AFTER WARRANTY

After the 90 day Warranty has expired you may return any original defective diskette, along with a check for \$5.00 to cover the shipping and diskette cost, and we will replace it.

SHIP TO :

RAVE 99 CO.  
112 RAMBLING ROAD  
VERNON, CT. 06066