Mondo TC

Quick Reference & Setup Guide





for TV One and Magenta products

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Specifications

Screen Size:	7" (800x480), touch panel
Connectors:	1 DB9 Female (DCE) RS232 communication port. (Null modem DB9M-DB9M cable required) 1 SD flash memory card slot (2GB max)
Serial Protocol:	Fixed at 9600 baud, 8,N,1
Temperature Tolerance:	Operating: 32 to 104°F (0 to 40°C); Storage: 26 to 104°F (-10 to 40°C)
Humidity Tolerance:	Up to 80% non-condensing
Enclosure:	Metal
Power:	+12 VDC @ 0.5A max Consumption: 6 watts maximum
Size:	5.25 "H (3RU) x 19.0"W x 1.83"D (13.3 x 48.3 x 4.6 cm) (Including rack mount)
Weight:	3.77lb. (1.714 kg)
Included Accessories:	1—12VDC power supplies 1—DB9M-DB9M Null Modem serial cable 1– 2GB SD flash memory.

Introduction

The Magenta Mondo TC is a touchscreen LCD that is used to provide an easy means of control for a Mondo Matrix switch.

The Mondo TC connects directly to the master unit of a Mondo Matrix system via an RS232 port and selfconfigures itself to the system. The Mondo TC will obtain configuration data through the Mondo III master automatically.

An included SD card may be used to store and recall cross point settings. See section on the Auto Switch use.

Access to the SD Card is from the rear of the unit. The SD card can be removed and inserted into a PC where the text files on it can be open and edited. Any supported Mondo switching command can be included in this file. Commands that provide feedback can be used, however information sent to the Mondo TC will be disregarded. Reference the Mondo Command set in the Mondo Matrix user guide.



Setup and Installation

CONNECTIONS AND SETUP IN GENERAL

- 1. Connect the DB9 RS232 communication cable to the Mondo TC. This cable is supplied with the unit. If it cannot be located, a DB9M-DB9M Null Modem cable can be used. The DB9M-DB9M wiring must implement a crossover functionality i.e connecting line 2 to 3 and line 3 to 2.
- 2. Connect the other end of the RS232 cable to the DB9 COM1 port on the master unit of the Mondo Matrix. The Mondo Matrix serial COM1 port must be set to Mode 2 (M2). This can be done via the front panel configuration LCD or via a serial terminal and the \$SPC command. Reference the Mondo Matrix user guide for details. To use other COM ports on the Mondo Matrix for control purposes see the Mondo Matrix user guide.

Note, the Mondo III should be configured as a master (Mode M3-M) and COM1 as M2 9600 A=OFF.

In a system with only 1 Mondo Matrix unit / frame then the single unit must be configured as a master. A single unit does not work in slave mode. In a system with several Mondo III units / frames then the Mondo III master will have frame number 0000 and other units / frames will have different frame numbers. Reference the Mondo Matrix user guide for details of this. Normally the frame numbers are configured in the Mondo III units / frames before they leave the tvONE factory so the user should not have to look at these.

- 3. Ensure SD card is fully inserted into the LCD unit.
- 4. Connect the 12V DC power supply to the Mondo TC. Plug power supply mains plug into AC mains circuit and ensure Mondo TC powers on. The Mondo TC will automatically communicate with the Mondo system and configure itself for the correct system size once it has completed its initialization sequence.
- 5. To use the Mondo TC, simply touch the appropriate button on the screen. The next section details each screen and usage. The buttons are shown as blue rectangles on the screen.



Using The MONDO TC

The Mondo TC is an easy to use touchscreen control system. It periodically queries the Mondo system to update all the cross points. There are three main areas of control as detailed below and in Figure 1.

- Manual Switch: Allows for manual switching as well as showing the current cross point map in a graphical format. Mondo III frame ports are grouped shown in pages of 16 ports per page.
- Auto Switch: Allows for storing and recalling preset configurations. Presets are stored in internal and external flash memory. They can also be edited with a text editor.
- Configuration: Set switch modes and edit input/output port names.



Figure 1: Main Mondo TC screen

Manual Switch Mode

Press the Manual Switch button to enter this Mode





Manual Switch Mode (cont.)



A confirmation dialog box will appear after pressing the Switch button:

Auto Switch Mode

Press the Auto Switch button to enter this Mode. This screen is used to save, load, or copy routing presets.



To Save the current cross point map into a preset, select a preset button (it will turn yellow), and then press the Save button.

To Load a preset into the switch, select the desired preset button (it will turn yellow), and then press Load. A confirmation dialog box will appear similar to the one used in manual mode.

To rename a preset button, select the desired button (it will turn yellow), then press Change Name. An onscreen keyboard will appear. Press done or Cancel when finished.

The Browse function allows you to manage preset files in internal storage as well as the external SD card.



Auto Switch Mode

Use the on-screen keyboard to change Preset labels and routing filenames. Press done when finished.



Use the Browse screen to copy or delete presets to and from internal and external storage. Press the desired file listing side to select internal flash or external SD card. Use the Move Up/Down buttons to select desired filename, then press Copy or Delete as desired. Press Done or Cancel when finished.





Configuration Mode

Press the Configuration button to enter this mode.



Press "Reset Names" to reset all names to factory defaults.

Customizing the Home Screen Background

The Mondo Matrix TC home screen background can be customized with a bitmap image of your choice. This option is only available if the SD card is installed. If the SD card is not installed, the default background image is used. The custom background image cannot be copied to the internal memory of the Mondo Matrix TC.

- 1) The image size must be 800x480 pixels and be in a Windows compatible (BMP) bitmap format.
- 2) The image must be named wallpaper.bmp
- 3) Copy the image file to the SwitchConfig directory on the SD card.
- 4) Power cycle the Mondo Matrix TC for the changes to go into effect.

Note that the three side buttons and top Switch Title bar are always visible.