Mondo TC
Quick Reference &
Setup Guide

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## 1. Specifications

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<th>Specification</th>
<th>Details</th>
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<td><strong>Screen Size:</strong></td>
<td>7” (800x480), touch panel</td>
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| **Connectors:**               | 1 DB9F RS232 communication port. (null modem DB9M-DB9M cable required)  
2 Power inlet (redundant, hot swappable)  
2 USB (not implemented at this time)  
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% noncondensing |
| **Enclosure:**                | Metal |
| **Power:**                    | +12 VDC @ 0.5A max  
Consumption: 6 watts maximum  
Fused input.  
Replace fuse with same type & rating: 250V, 2A Slow Blow, 5x20mm |
| **Size:**                     | 5.25 "H (3RU) x 19.0"W x 2.25"D (13.3 x 48.3 x 5.7 cm)  
(including rackmount) |
| **Weight:**                   | 3.94 lb. (1.8 kg) |
| **Included Accessories:**     | 2—12VDC power supplies  
1—DB9M-DB9M Null Modem serial cable  
1—1GB SD flash memory. |
2. Introduction

Introduction

The Magenta Mondo TC is a touchscreen LCD that is used to provide an easy means
of control of a Mondo Matrix switch.
The Mondo TC connects directly to a Mondo Matrix system via an RS232 port and self
configures itself to the system. No further set up is necessary.

An included SD card may be used to store and recall crosspoint settings. See section
on the Auto Switch use.
The SD card can also 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.

3. 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.

2. Connect the other end of the RS232 to an available Mondo Matrix DB9 port. The
Mondo Matrix serial 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.

3. Insert SD Flash memory card into SD card slot. Ensure SD card is fully inserted.
To remove the SD flash card, gently push on it to release it.

4. Connect both power supplies to the Mondo TC. Only one power supply is required,
however two are supplied for redundancy. Plug power supplies into an AC mains
circuit and ensure Mondo TC powers on. There is no On/Off switch on the Mondo
TC. 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.

NOTE:
When the Mondo TC powers up, a error message stating that the unit is in Safe
Mode due to corrupt firmware will appear. This is normal and will not affect
operation. Please disregard this error.

5. To use the Mondo TC, simply touch the appropriate button on the screen.
The next section details each screen and usage.
3. 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 crosspoints. 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 crosspoint map in a graphical format.
- **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.

Touching anywhere else outside of these areas will enable a screensaver mode. To exit screen saver mode, simply tap anywhere on the screen.

![Figure 1: Main Mondo TC screen](image)

**Figure 1: Main Mondo TC screen**

**Manual Switch Mode**

Press the Manual Switch button to enter this Mode.

To Manually switch, Press an input button, then one or more output buttons, then press the Switch button.

**Auto Switch Mode**

Pressing anywhere outside of the three buttons will activate the screensaver. Press anywhere on the screen to restore to main menu.

**Configuration Mode**

Press anywhere on the screen to restore to main menu.
3. Using the Mondo TC, cont.

Manual Switch Mode (cont.)

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

- **Press to switch selected routes.** This will clear all output selections on output buttons.
- **Press to switch selected routes.** This will not clear output selections on output buttons.
- **Press to Cancel operation.**

Auto Switch Mode

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

- **Press to Select a Preset**
- **Press to Save the current crosspoint.**
- **Press to browse preset files.**
- **Press to Load a routing preset.**
- **Press Done to exit**

To Save the current crosspoint 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 on-screen 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.
3. Using the Mondo TC, cont.

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.

Press to Browse for the file location. The Directory window will open.

Press these to change the display order, move files between internal and external memory or delete files.

Press Cancel to abort, or Done when finished.

Internal Flash is 64MB
External flash is 1 GB and is removable.
3. Using the Mondo TC, cont.

**Configuration Mode**
Press the Configuration button to enter this mode.

- Press to Switch both Video and Audio/Serial (4th pair)
- Press to Switch Video only
- Press to Switch Audio/Serial only (4th pair)
- Press to Name Ports
- Press to return when finished

**Port name screen**
- Press to increment/decrement Input and Output Port number
- Press Cancel to abort, or Done when finished
- Press “Reset Names” to reset all names to factory defaults.
- Press to Change the Port name. The on-screen keyboard below will appear
- Press to return when finished
4. 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.
MAGENTA MONDO MATRIX TC

Notes: