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Connect with Confidence

Mondo TC

Quick Reference
&
Setup Guide

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Contents

Chapter **Page**

1. Specifications.....2
2. Introduction 3
3. Using the Mondo TC.....4
4. Customizing the Home Screen.....8
5. Notes.....9

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1. Specifications

Screen Size:	7” (800x480), touch panel
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.

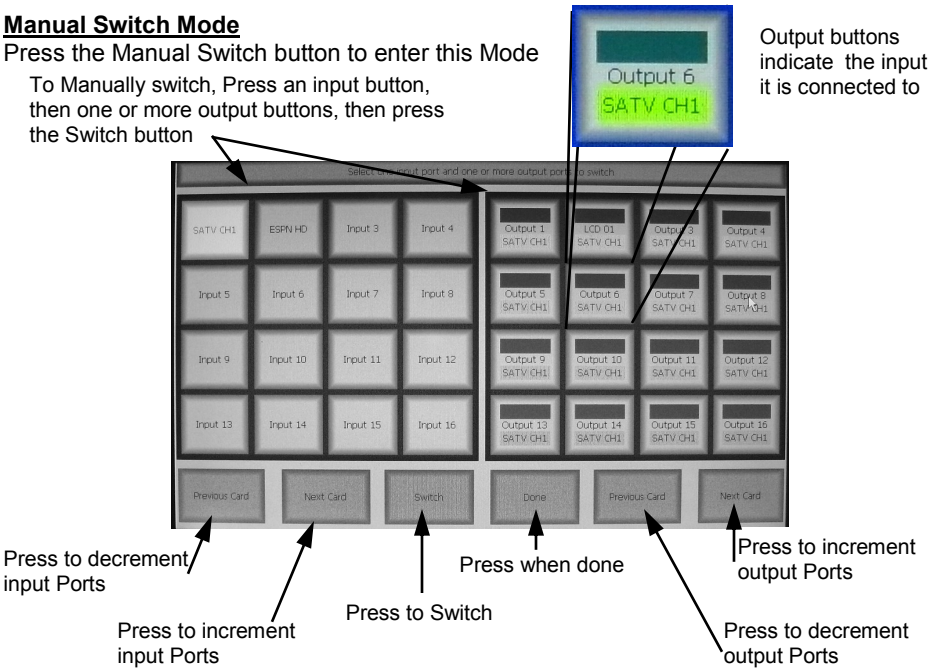
Pressing anywhere outside of the three buttons will activate the screensaver. Press anywhere on the screen to restore to main menu

Figure 1: Main Mondo TC screen

Manual Switch Mode

Press the Manual Switch button to enter this Mode

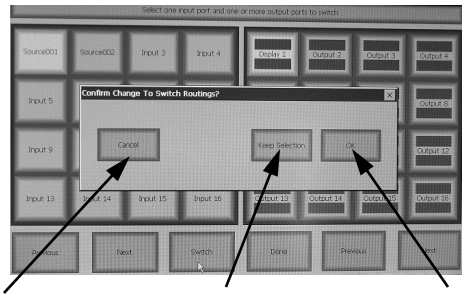
To Manually switch, Press an input button, then one or more output buttons, then press the Switch button



3. Using the Mondo TC, cont.

Manual Switch Mode (cont.)

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



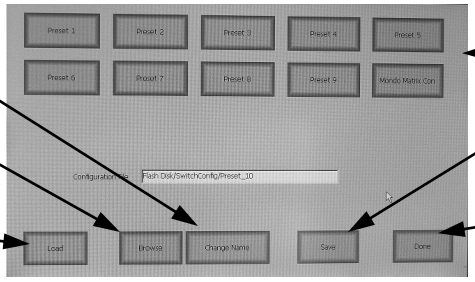
Press to Cancel operation

Press to switch selected routes. This will not clear output selections on output buttons.

Press to switch selected routes. This will clear all output selections on output buttons.

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 rename a preset button or filename.

Press to browse preset files.

Press to Load a routing preset.

Press to Select a Preset

Press to Save the current crosspoint.

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.

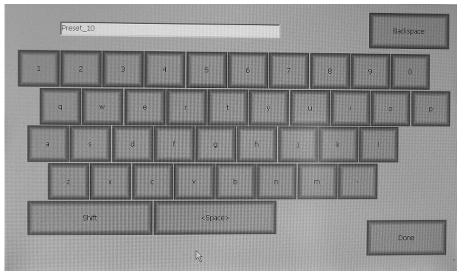
To Load a preset into the switch, select the desired preset button (it will turn yellow), and then press Load. A confirmation dialog box will appear similar to the one used in manual mode.

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.

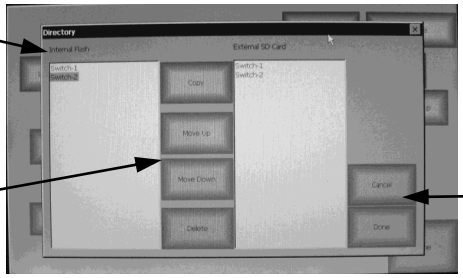
Use the on-screen keyboard to change Preset labels and routing filenames. Press Done when finished.



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.



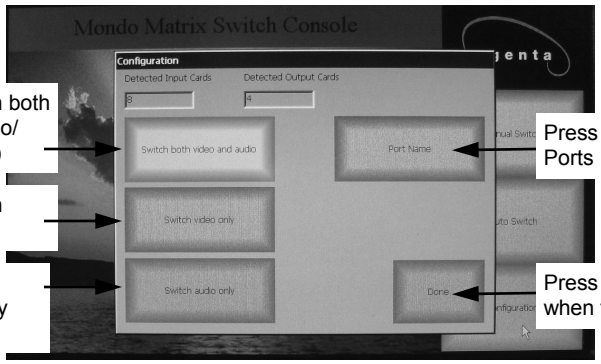
Press Cancel to abort, or Done when finished

Internal Flash is 64MB
External flash is 1 GB and is removable

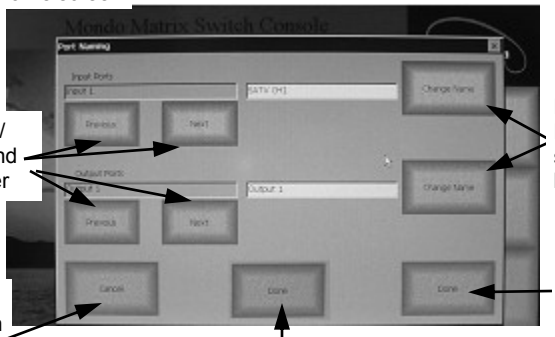
3. Using the Mondo TC, cont.

Configuration Mode

Press the Configuration button to enter this mode.



Port name screen



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

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