

**ermes**

## THECNICAL SHEET FOR

### SafeMATRIX

### Analog switchers

ST-MTXC-01

Pag. n. 1  
di pag. n. 3

## EQUIPMENT CODE

This analog switcher family has code **MTX.xx/yy**.

The characters **xx** show the number of video inputs and they can have the following values 16, 32, 48, 64, 80, 96, 112 or 128.

The characters **yy** show the number of the video outputs and they can have the following values 4 or 12.

## SHORT DESCRIPTION

Analog switcher with xx inputs and yy outputs.

## FEATURES

MTX switchers can control up to 128 video inputs that can be freely switched on up to 12 independent outputs; Versions with 16 and 32 inputs are arranged in desk case, version with more inputs are arranged in rack 19" case.

Video signal provided by outputs n. 1 and n. 2, has a special code that is recorded with the video signal onto the VCR. Thanks to this feature, when you have many systems of the same customer, you can use these low cost switchers for recording cameras on each system and you can use a digital multiplexer for playback tapes. Outputs n. 1 and n. 2 can switch video signals at 50 frame/second.

All video outputs include a character generator that allows to incrust onto the video signal 4 types of messages. First message is generated automatically and includes camera number, date and time, the further 3 messages can be freely set by the user:

- 26-character message associated with each camera
- 26-character message for the identification of the system.
- 26-character message associated with the activation of each alarm inputs

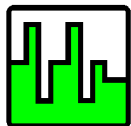
Each message can be singularly enabled for display.

MTX switchers with 4 outputs can be set and controlled by means of the keyboard fitted on the front panel. The access to the programming procedure is protected by password.

MTX switchers with 12 outputs can be set by remote keyboard (cod. KEY.C2 not included) or PC; you can control manually video selection by remote keyboards (not included). The access to the programming procedure is protected by password.

Camera selection can take place manually or in automatic way in according with two criteria: schedule and external alarm.

When you perform manual control you can use the front panel keyboard (only for 4 outputs equipment) or you can use one or more remote keyboards connected to the switcher; connection of remote keyboards takes place by means of M-BUS™ (Manager BUS). You can use two different remote keyboards: KEY.C2 for camera selection, KeyMATRIX for camera selection and P/T/Z or speed dome control.



**ermes**

## THECNICAL SHEET FOR

### SafeMATRIX

### Analog switchers

ST-MTXC-01

Pag. n. 2  
di pag. n. 3

If you use VCR with remote control by RS232 you can schedule start, stop and time lapse speed of recording operation by means of the optional VCR controller (code VCR.PAN).

If you uses VCR without RS232 remote control, you can synchronize VCR and MTX switcher by means of the relevant pulse provided from VCR.

Finally, MTX swotcher can control opening of a safe rack by means of the auxiliary time delay devices (cod. TIME.D).

### AUXILIARY EQUIPMENT

With MTX switchers you can use several auxiliary equipment that improve the features of the system; all auxiliary equipment can be connected to the MTX switcher by means of the serial MANAGER BUS (M-BUS) that is fitted on all ERMES equipment.

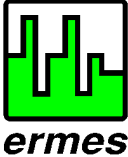
The list of the auxiliary equipment includes:

- remote selection keyboard (mod. KEY.C)
- remote keyboard for camera selection and P/T/Z controller (mod. KEY.I)
- remote keyboard for camera selection and speed dome controller (mod. KEY.IS)
- time delay driver for cabinet opening (mod. TIME.D)

If you need additional information about auxiliary equipment, check each technical sheet.

### SPECIFICATIONS:

|                              |  |
|------------------------------|--|
| Video inputs                 | : From 16 up to 128 on BNC connectors              |
| Video outputs                | : 4 or 12 on BNC                                   |
| Video signal                 | : 1Vpp (CCIR or PAL)                               |
| Analogue output band         | : 7.5 Mhz / -3db                                   |
| Alarms                       | : from 16 up to 128 on D 25 pole female connector  |
| RS-232                       | : 1 D 9 pole male connector                        |
| M-BUS                        | : D 9 pole female connector                        |
| Messages at analogue outputs | : 4 lines of 26 characters (user settable)         |
| Clock                        | : real-time clock with booster battery             |
| Reed contacts                | :three N.O. / 100 mA - 30 Volt (yser settable)     |
| External keyboards           | :up to 8 (KEY.C2 or KeyMATRIX) connected by M-BUS) |
| Data memorisation            | :on FLASH EPROM settable on field through PC       |
| Processor                    | : 1 microcontrollers, 8bit - 16Mhz                 |
| Programming                  | :by front panel keyboard or PC                     |
| DC power supply              | : 10.3 – 12.7 VDC - 650 mA at 12 VDC               |
| Case                         | : desk 430 x 89 x 310 mm or rack 19"               |

|   |  |  |
|---|--|--|
|  | <b>THECNICAL SHEET FOR</b><br><br><b>SafeMATRIX</b><br><br><b>Analog switchers</b> | <b>ST-MTXC-01</b><br><br>Pag. n. 3<br>di pag. n. 3 |
|---|--|--|

## STANDARDS

The **MiniCOLOR** is marked with the  label, as it conforms to the EMC directive 89/336/EEC of the European Community.

The **MiniCOLOR** also conforms to the following standards:

- EN 61000-3-2 (1995)
- EN 61000-3-3 (1995)
- EN 61000-4-2 (1996)
- EN 61000-4-3 (1997)
- EN 61000-4-4 (1996)
- EN 61000-4-5 (1995)
- EN 61000-4-11 (1997)
- EN 50130-4 (1996)
- ENV 50141 (1994)
- EN 55022 (1995)

The Declaration of Conformity in accordance with these standards has been completed and is kept at ERMES ELETTRONICA Srl. - Mareno di Piave - ITALY.