

SM164B

SYSTEM VIDEO MATRIX PAL/NTSC

MAIN FEATURES

- 16 video inputs
- 4 independent video outputs with text generator
- Telemetry over the coax on the 16 video inputs and on auxiliary serial output (RS485)
- Controllable by PC (RS232)
- 16 alarm inputs, one output contact, trigger VCR and alarm reset
- 4 RS485 serial inputs for max 4 remote keyboards
- Privacy video masking function
- Camera exclusion feature if the monitor is used in public places

DESCRIPTION

The SM164B matrix is a microprocessor remote-controlled video matrix which allows the video switching of 16 cameras on 4 outputs.

A OSD programmable password ensures protection from improper use of the matrix.

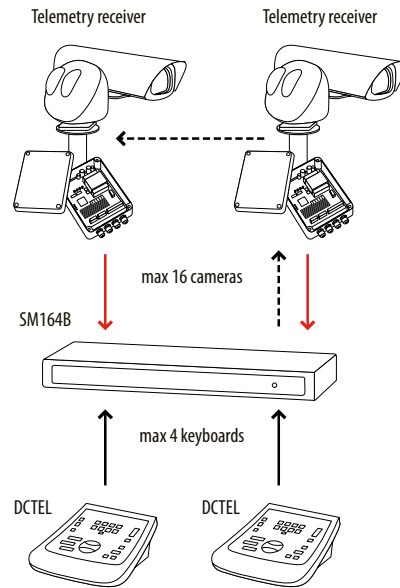
The switching is controlled by a maximum of 4 remote keyboards in RS485. The keyboards, remote up to maximum distance of 1200m (3937ft), allows the video switching and matrix set-up, on screen and telemetry control through the same matrix.

16 alarm contacts can be associated with the corresponding video inputs. In case of alarm, the alarmed video input can be displayed on the video outputs. The alarm contacts are independent and configured as Normally Open (NO) or Normally Closed (NC). The reset of an alarm situation is performed through keyboard, external contact or time-out.

The telemetry control can be performed on coax cable on the 16 video inputs and on the RS485 serial output. Furthermore, it is possible to control the video switching by a VCR trigger signal.



SM164B



- Twisted pair RS485 (max distance 1200m / 3937ft)
- Twisted pair RS485 (max distance 1200m / 3937ft) telemetry only
- Video-coax only (max distance 350m / 1148ft)

TECHNICAL DATA

GENERAL

Max 16 cameras
 Max 4 monitors
 Max 4 remote keyboards
 On screen display video programming
 Menu in 4 languages (Italian, English, French and German)
 Different switching sequences for each video output
 Identification texts for each output
 Date and time management
 Types of alarm reset: manual from keyboard, external, timed automatically
 Completely configurable alarm inputs for all 16 video inputs
 VCR trigger management
 Alarm condition warning buzzer
 Relay can be activated by each alarm
 Telemetry control on RS485 auxiliary line and on coaxial cable
 Video signal masking on fixed camera for privacy purposes
 Input 75 Ohm load disconnectable
 Equipped with wide range power supply, 3 power cables, 2 RJ11 telephone cables, 2 junction boxes RJ11 jack, DB25 connector

MECHANICAL

Steel enclosure
 Epoxypolyester powder painting, RAL7036 colour
 Dimensions: Rack 19", 1U, 436.6x163x445mm (17.2x6.4x17.5in)
 1XDB25 connector (alarm)
 5 connectors RJ11 (4 for keyboards and 1 for telemetry line)
 1xpower supply jack connector
 1xDB9 female connector (PC)
 16 inputs BNC video
 4 BNC video outputs
 Unit weight: 3.5kg (7.7lb)

ELECTRICAL

Power supply: IN 100-240Vac - OUT 12Vdc, 47/63Hz, 1A
 Consumption: 15W max
 16 inputs 75 Ohm 1Vpp (PAL/NTSC)
 4 outputs 75 Ohm 1Vpp (PAL/NTSC);
 Bandwidth: > 6MHz
 Lower cut-off frequency: (-3dB): 9Hz
 Signal/Noise ratio: > 48dB@5.5MHz
 Relay contact: 50Vac, 0.3A

COMMUNICATIONS

Telemetry transmission on coax cable on the 16 video inputs (min distance 5m (16.4ft) and max 350m (1148ft)
 Telemetry data transmission on serial output RS485 for a max distance of 1200m (3937ft)
 4 serial inputs RS485 for the reception of data from max 4 remote keyboards from a max distance of 1200m (3937ft)
 Serial input RS232 for firmware update and PC control from a max distance of 15m (49ft)

PROTOCOLS

Telemetry Line
 PELCO D (2400, 4800, 9600, 19200 baudrate)
 VIDEOTEC (1200, 9600 baudrate)
 VIDEOTEC MACRO (1200, 9600, 19200, 38400 baudrate)
 PELCO is registered trademark.

ENVIRONMENT

Indoor
 Operating temperature: 0°C / +40°C (+32°F / +104°F)

CERTIFICATIONS

CE: EN61000-6-3, EN60950-1, EN55022 Class B, EN50130-4
 FCC Part 15, Class B

RELATED PRODUCTS

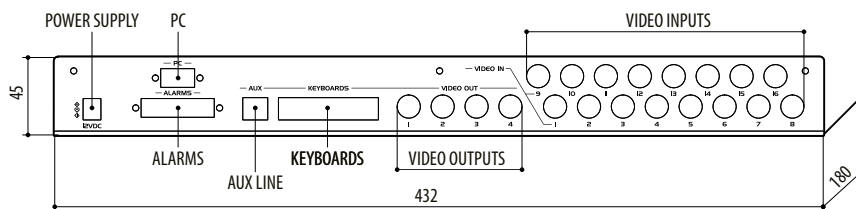
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|----------|--|
| DCTEL | Matrix and telemetry control keyboard |
| DCJ | Keyboard for video and telemetry control |
| DTMRX224 | DTMRX224 Telemetry receiver 12 functions, 24Vac |
| DTMRX2 | DTMRX Telemetry receiver 12 functions, 230Vac |
| DTRX324 | DTRX324 Telemetry receiver 17 functions for PTH311 + preset |
| DTRX3 | DTRX3 Telemetry receiver 17 functions for series PTH300 + preset |
| DTCOAX | Over the coax board (only thru SM series matrix) |
| DTRXDC | Telemetry data receiver, 13 functions |
| ULISSE | Integrated positioning unit |

PACKAGE

| Model Number | Weight | Dimensions (WxHxL) | Master carton |
|--------------|-------------|-----------------------------|---------------|
| SM164B | 3.7kg (8lb) | 51.5x18.5x11.5cm (20x7x5in) | 10 |

TECHNICAL DRAWINGS

Sizes in millimeters.



SM164