

SM164B

SYSTEM VIDEO MATRIX PAL/NTSC



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.

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 (RS-485)

Controllable by PC (RS-232)

16 alarm inputs, one output contact, trigger VCR and alarm reset

4 RS-485 serial inputs for max. 4 remote keyboards

Privacy video masking function

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
Epoxy polyester powder painting, RAL7036 colour
Dimensions: Rack 19", 1U, 432x45x180mm (17x1.8x7in)
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 from 100Vac up to 240Vac, 50/60Hz - OUT 12Vdc, 1.25A
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

SERIAL 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 baud)
- VIDEOTECH (1200, 9600 baud)
- VIDEOTECH MACRO (1200, 9600, 19200, 38400 baud)

PELCO is registered trademark.

ENVIRONMENT

For installation indoors
Operating temperature: from 0°C (32°F) up to +40° (104°F)

CERTIFICATIONS

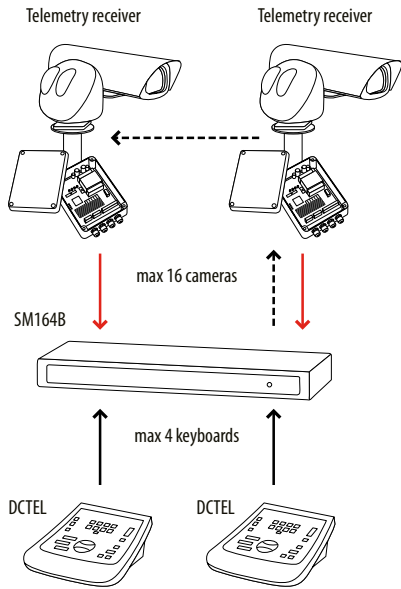
Electrical safety (CE): EN60950-1, EN62368-1
Electromagnetic compatibility (CE): EN50130-4, EN55022 (Class B), EN61000-6-3, FCC Part 15 (Class B)
EAC certification

RELATED PRODUCTS

DCTEL	Matrix and telemetry control keyboard
DCJ	Keyboard for video and telemetry control
DTMRX224	Telemetry receiver 12 functions, 24Vac
DTMRX2	Telemetry receiver 12 functions, 230Vac
DTRX324	Telemetry receiver 17 functions, 24Vac
DTRX3	Telemetry receiver 17 functions, 230Vac
DTCOAX	Over the coax board (only thru SM series matrix)
ULISSE	Integrated positioning unit

PACKAGE

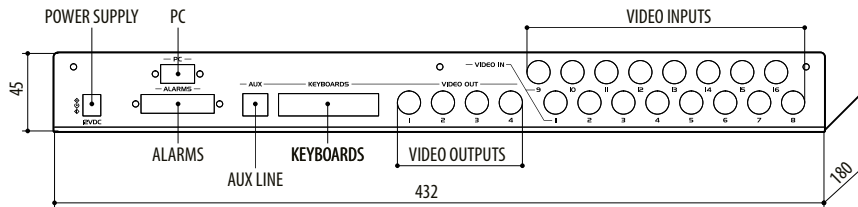
Model Number	Weight	Dimensions (WxHxL)	Master carton
SM164B	3.7kg (8lb)	51.5x18.5x11.5cm (20x7x5in)	10



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

TECHNICAL DRAWINGS

The dimensions of the drawings are in millimetres.



SM164