

SM84B-SM164B

VIDEO MATRIX

REVISION 0945



MAIN FEATURES

Video matrix, configuration through OSD (On Screen Display)

8 video inputs, expandable to 16

4 video outputs

Remote control by max 4 operators

Telemetry line

Controllable by PC

Privacy video-masking function

DESCRIPTION

The SM84B -SM164B matrix is a microprocessor remote-controlled video matrix which allows the video switching of 8-16 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.

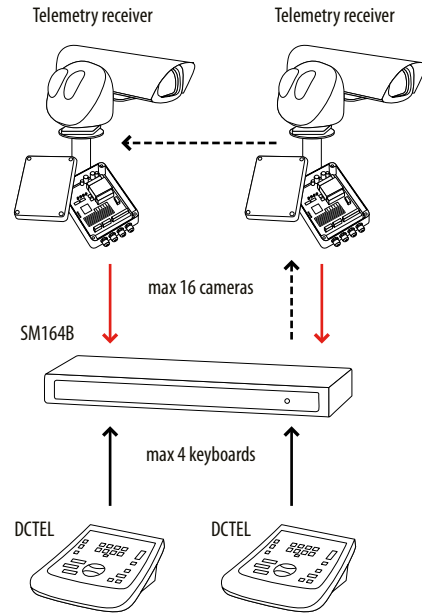
8-16 alarm contacts can be associated with the corresponding video inputs.

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.

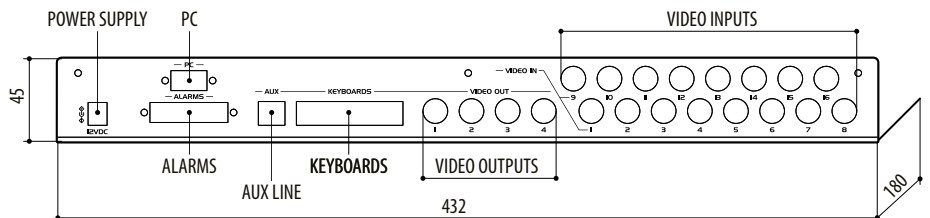
The telemetry control can be performed on coax cable on the 8-16 video inputs and on the RS485 serial output. Furthermore, it is possible to control the video switching by a VCR trigger signal.



SM84B-SM164B



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



SM164B

mm 1:4

SM84B-SM164B

TECHNICAL DATA

GENERAL

Max 8-16 cameras
Max 4 monitors
Max 4 remote keyboards
On screen display video programming
Menu in four 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 8-16 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
Supplied with instruction manual, wide range power supply, 3 power cables, 2 RJ11 telephone cables, 2 jack shunt boxes RJ11, 1 DB25 connector

MECHANICAL

Steel box
Epoxy polyester powder painting, RAL7036 colour
Dimensions: Rack 19", 1U, dim. 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)
8-16 BNC video inputs
4 BNC video outputs

ELECTRICAL

Power supply: IN 100-240Vac - OUT 12Vdc, 47/63Hz, 1A
Power consumption: 15W max
8-16 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 8-16 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)
Four 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
• VIDEOTECH (1200, 9600 baudrate)
• MACRO (1200, 9600, 19200, 38400 baudrate)
• PELCO D (2400, 4800, 9600, 19200 baudrate)
<i>PELCO is registered trademark.</i>
<i>Because SM84B-SM164B may be interfaced with equipment not manufactured by VIDEOTECH, it is possible that the interface protocols have changed or are in a different configuration from earlier tested units from us. Because VIDEOTECH recommends a bench test prior to installation, VIDEOTECH will not be liable for any installation costs or lost revenues in the event a compatibility problem will occur.</i>

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

ACCESSORIES

SMEX8	Expansion 8 inputs board for SM84B
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RELATED PRODUCTS

DCBD	Keyboard for matrix control
DCTEL	Keyboard for matrix and telemetry control
DCIR	Infrared Remote Control
DCK	Keyboard to control matrix and multiplexers
DCJ	Keyboard to control matrix, multiplexers and telemetry equipped with three axis joystick
DCT	Touch screen keyboard to control matrix, multiplexers, DVRs and telemetry equipped with three axis joystick
MICRODEC485	Mini telemetry receiver 8 functions, 24Vac
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 for DTRX3 only trough matrix series SM
DTRXDC	Telemetry receiver 13 functions, for PTH355P
ULISSE	Positioning Unit

Retrofit on discontinued products; contact VIDEOTECH for further specifications.

PACKAGE

Code	Unit weight		Package weight		Package dimensions (WxHxL)		Master carton unit
	kg	lb	kg	lb	cm	in	
SM84-164B	3.4	7.5	3.7	8.2	51.5x18.5x11.5	20.2x7.3x4.5	-