- 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

The SM84B -SM164B matrix is a microprocessor remote-controlled video matrix which allows the video switching of 8-16 cameras on 4 outputs.

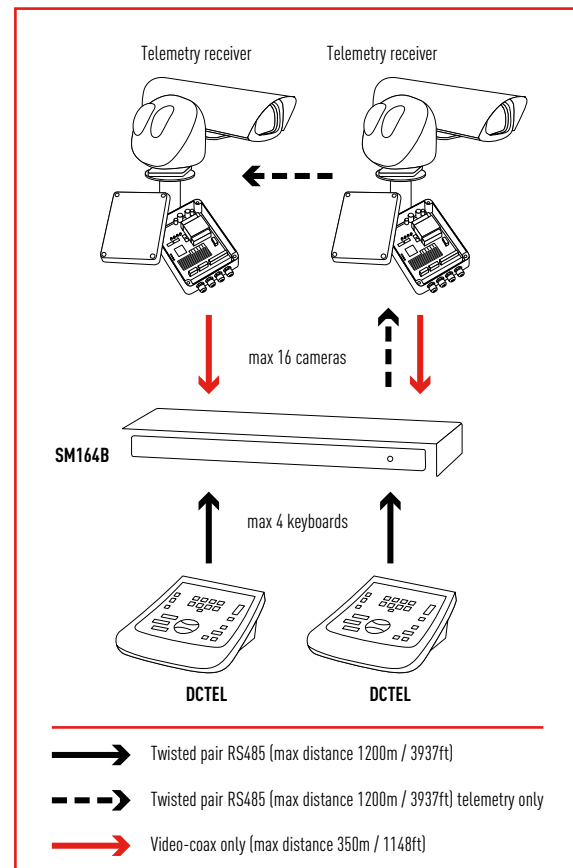A OSD programmable password ensures protection from improper use of the matrix.

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.
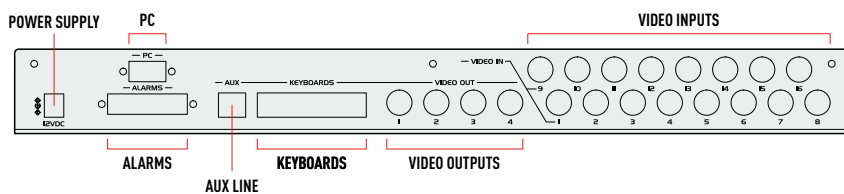
8-16 alarm contacts can be associated with the corresponding video inputs. In case of alarm, the alarmed video input can be displayed on the video outputs. The alarm contacts are independent and configured as Normally Open (NO) or Normally Closed (NC). The reset of an alarm situation is performed through 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.

Telemetry receiver   Telemetry receiver

max 16 cameras

SM164B

max 4 keyboards

DCTEL   DCTEL

→ Twisted pair RS485 (max distance 1200m / 3937ft)

---→ Twisted pair RS485 (max distance 1200m / 3937ft) telemetry only

→ Video-coax only (max distance 350m / 1148ft)

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VIDEO SWITCHING

POWER SUPPLY   PC   VIDEO INPUTS

ALARMS   KEYBOARDS   VIDEO OUTPUTS

AUX LINE

SM84B-SM164B
VIDEO MATRIX

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

Epoxypolyester 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

VIDEOTEC (1200, 9600 baudrate)

MACRO (1200, 9600, 19200, 38400 baudrate)

PELCO D (2400, 4800, 9600, 19200 baudrate)

PELCO is registered trademark.

Because SM84B-SM164B may be interfaced with equipment not manufactured by VIDEOTEC, it is possible that the interface protocols have changed or are in a different configuration from earlier tested units from us. Because VIDEOTEC recommends a bench test prior to installation, VIDEOTEC will not be liable for any installation costs or lost revenues in the event a compatibility problem will occur.

ACCESSORIES

SMEX8	Expansion 8 inputs board for SM84B

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 VIDEOTEC for further specifications.

ENVIRONMENT

Indoor

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

COMPLIANCE TO

CE according to EN 61000-6-3, EN 60950-1, EN 55022 Class B, EN 50130-4

FCC according to Part. 15 Class B

	Unit Weight:	**Package Weight:**	**Package Dimensions (WxHxL):**	**Master Carton:**
	SM84-164B 3.4kg / 7.5lb	**SM84-164B** 3.7kg / 8.1lb	**SM84-164B** 51.5x18.5x11.5cm / 20.2x7.3x4.5in	**SM84-164B** -