

SM42B-SM82B

SMALL VIDEO MATRIX

REVISION 0945



MAIN FEATURES

Video matrix, configuration through OSD (On Screen Display)

4 video inputs expandable to 8

2 video outputs

Remote control by max 2 operators + one local

Telemetry line

Privacy video-masking function

DESCRIPTION

The SM42B-SM82B microprocessor-controlled matrix with remote or local control allows the switching of 4 (or 8) cameras on 2 video outputs.

The matrix can be controlled by two remote keyboards, by the local keyboard or by the infrared remote control DCIR in RS485.

The keyboards, located at a maximum of 1200m (3937ft) from the matrix, allow the video switching and matrix OSD set-up, in four languages and telemetry control through the matrix itself.

One alarm contact can be associated with the corresponding video input. In case of alarm, the alarmed video input can be displayed on the video output.

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.

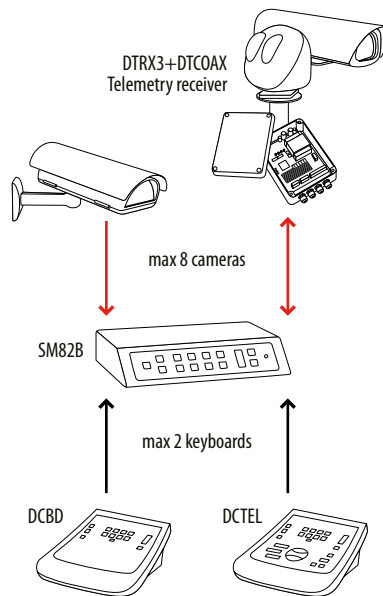
A programmable password ensures protection from improper use of the matrix.

The telemetry control can be performed over the coax cable or by RS485.

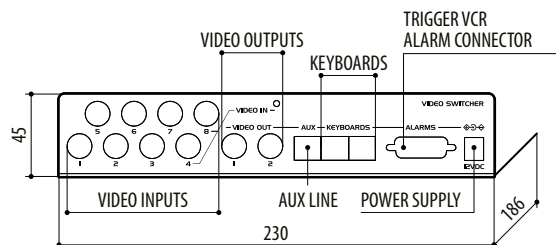
By a VCR trigger it is possible to control the video sequence to be taped.



SM42B



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



SM82B

SM42B-SM82B

TECHNICAL DATA

GENERAL

Max 4-8 cameras
Max 2 monitors
Max 2 remote keyboards and a local keyboard
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
Types of alarm reset: manual from keyboard, external, timed automatically
Completely configurable alarm inputs for each 4 (8) video input
VCR trigger management
Alarm condition warning buzzer
Relay can be activated by each alarm
Telemetry control on RS485 auxiliary line and on coaxial cable
Local keyboard for complete matrix control
Video signal masking on fixed cameras for privacy purposes
Input 75 Ohm load disconnectable
Supplied with instructions manual, wide range power supply, 3 power cables, 2 RJ11 telephone cables, 2 jack shunt boxes RJ11, 1 DB15 connector

MECHANICAL

Steel enclosure
Epoxy polyester powder painting, RAL7036 colour
Keyboard constructed from polycarbonate with 15 keys
Dimensions: 167x230x47mm (6.5x9x1.8in)
1 connector 15 poles
3 connectors RJ11
Power supply jack connector
4-8 BNC video inputs
2 BNC video outputs

ELECTRICAL

Power supply: IN 100-240Vac - OUT 12Vdc, 47/63Hz, 1A
Power consumption: 15W max
4-8 inputs 75 Ohm 1Vpp (PAL/NTSC)
2 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 4-8 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)
Two serial inputs RS485 for the reception of data from 2 remote keyboards for a max distance of 1200m (3937ft)

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 SM42B-SM82B 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

SMEX4	Expansion 4 inputs board for SM42B
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RELATED PRODUCTS

DCBD	Keyboard to control matrix
DCTEL	Keyboard to control matrix and telemetry
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	
SM42-82B	1.8	4.0	2.4	5.3	26.0x19.0x16.0	10.2x7.5x6.3	10