

- Video programming "On Screen Menu"
- 4 video inputs expandable to 8
- 2 video outputs
- Remote control by max 2 operators + one local
- Telemetry line
- Privacy video-masking function



The SM42A-SM82A microprocessor-controlled matrix with remote or local control allows the switching of 4 (8) cameras on 2 video outputs.

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

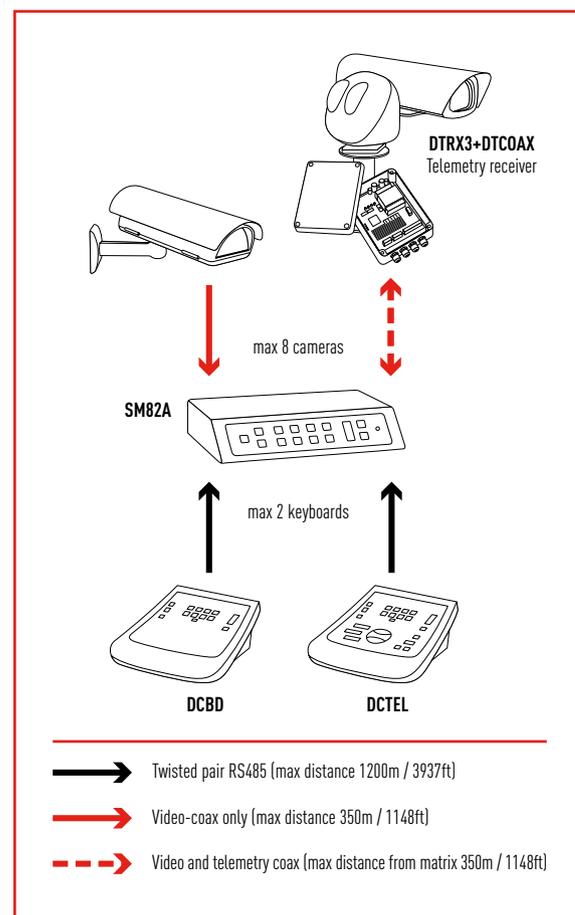
The keyboards, located at a maximum of 1200m (3937ft) from the cycle matrix, allow the video switching and matrix set-up, in four languages, "On screen Menu" and telemetry control through the matrix itself.

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.

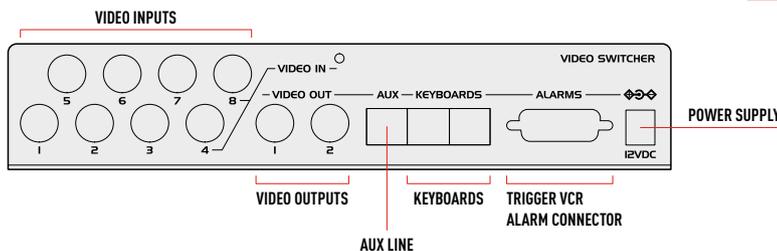
A programmable password ensures protection from improper use of the matrix.

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.



10 VIDEO SWITCHING



# SM42A-82A

## SMALL VIDEO MATRIX



### TECHNICAL DATA

#### GENERAL

Max 4-8 cameras  
 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 output video  
 Identification texts for each output  
 Types of alarm reset: manual from keyboard, external, timed automatically  
 Completely configurable alarm input 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 camera 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

Metal enclosure  
 Painted with epoxy polyester powder RAL7036  
 Keyboard made of 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 100-240V AC - OUT 12V DC, 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: 50V AC, 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]

#### PROTOCOL

##### Telemetry Line

VIDEOTEC (1200, 9600 baudrate)  
 MACRO (1200, 9600, 19200, 38400 baudrate)  
 PELCO D (2400, 4800, 9600, 19200 baudrate)

*Pelco D is registered trademark.*

*Because SM42A-SM82A 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.*

#### RELATED PRODUCTS

DCBD	Matrix Control Keyboard
DCTEL	Matrix and Telemetry Control Keyboard
DCIR	Infrared Remote Control
DCK	Matrix and Mux Control Keyboard
DCJ	Matrix, Mux and Telemetry Control Keyboard with three axis joystick
DCT	Matrix, Mux, DVR and Telemetry Control Keyboard touch screen equipped with three axis joystick
MICRODEC485	Mini telemetry receiver 8 functions, 24V AC
DTMRX224	Telemetry receiver 12 functions, 24V AC
DTMRX2	Telemetry receiver 12 functions, 230V AC
DTRX324	Telemetry receiver 17 functions, 24V AC
DTRX3	Telemetry receiver 17 functions, 230V AC
DTCOAX	Over the coax board for DTRX3 only trough matrix series SM
DTRXDC	Telemetry receiver 13 functions, for PTH355P
ULISSE	Positioning Unit
MISTRAL	Dome Camera

*Retrofit on discontinued products; contact Videotec for further specifications.*

#### ENVIRONMENT

Indoor  
 Operating temperature: 0°C / +40°C (32°F-105°F)

#### COMPLIANCE TO

CE according to EN 61000-6-3, EN 60950, EN 55022 Class B, EN 50130-4  
 FCC according to Part. 15 Class B



**Unit Weight:**  
 SM42-82A 1.8kg / 3.9lb

**Package Weight:**  
 SM42-82A 2.4kg / 5.3lb

**Package Dimensions (BxHxL):**  
 SM42-82A 26x19x16cm / 10.2x7.5x6.3in

**Master Carton:**  
 SM42-82A 10 units