

SM82A

SMALL VIDEO MATRIX PAL/NTSC



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DESCRIPTION

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

The matrix can be controlled by two remote keyboards or by the local keyboard. 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.

It is possible to control the video switching by a VCR trigger signal.

MAIN FEATURES

8 inputs

2 independent video outputs

Telemetry over the coax on the 8 video inputs and on auxiliary serial output (RS-485)

8 alarm inputs, 1 output contact, VCR trigger and alarm reset

2 RS-485 serial inputs for max. 2 remote keyboards

Privacy video masking function

TECHNICAL DATA

GENERAL

Max 8 cameras
Max 2 monitors
Max 2 remote keyboards and a local keyboard
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
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 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, 1 DB15 connector

MECHANICAL

Steel enclosure
Epoxy polyester powder painting, RAL7036 colour
Keyboard constructed from polycarbonate with 15 keys
Dimensions: 230x45x186mm (9x1.8x7.3in)
1 connector 15 poles
3 connectors RJ11
Power supply jack connector
8 inputs BNC video
2 BNC video outputs
Unit weight: 1.8kg (4lb)

ELECTRICAL

Power supply:
• IN from 100Vac up to 240Vac, 50/60Hz - OUT 12Vdc, 1.25A
Consumption: 15W max
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)
2 serial inputs RS485 for the reception of data from 2 remote keyboards for a max distance of 1200m (3937ft)
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.

The product may be interfaced with devices not manufactured by VIDEOTECH. It is possible that the interface protocols have changed or are in a different configuration from earlier tested units by VIDEOTECH. VIDEOTECH recommends a test prior to installation. VIDEOTECH will not be liable for any installation costs or lost revenues in the event a compatibility problem will occur.

ENVIRONMENT

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

CERTIFICATIONS

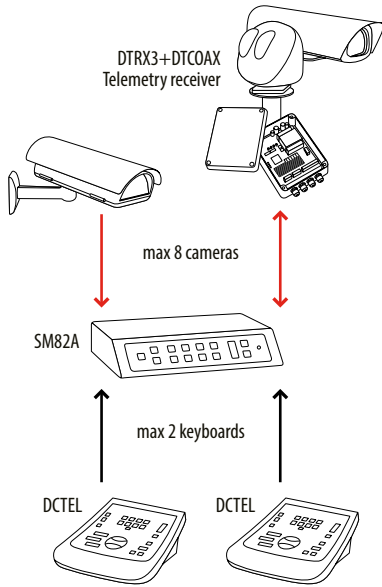
CE: EN61000-6-3, EN60950-1, EN55022 Class B, EN50130-4
FCC Part 15, Class B

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 |
| ULISSE | Integrated positioning unit |

PACKAGE

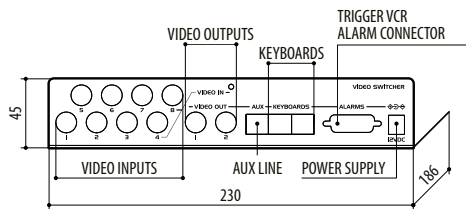
| Model Number | Weight | Dimensions (WxHxL) | Master carton |
|--------------|---------------|-----------------------|---------------|
| SM82A | 2.4kg (5.3lb) | 26x19x16cm (10x8x6in) | 10 |



- 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.



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