

SM328B

SYSTEM VIDEO MATRIX

REVISION 0945



MAIN FEATURES

- 32 video inputs and 8 video outputs

- Configuration through OSD (On Screen Display) or through Windows 98/2000/XP

- Master/Slave and Parallel systems layout

- Videoloss detector

- 32 sequences (32 steps each)

- 32 alarm inputs

DESCRIPTION

The video matrix SM328B offers a solution for the collection and management of images, capable of switching 32 video inputs to 8 independent outputs and activating 32 different synchronized sequences among several monitors, with day, night or holidays cycles.

The matrix provides 32 alarm inputs and 8 relays outputs controlled by events or alarm contacts (alarm groups). Alarms can be reset through a keyboard, external contacts or automatic timed reset. The matrix can be easily configured through an OSD or through a PC (Windows 98/2000/XP).

In applications like shopping malls, department stores and banks where monitors are shown to the public as a deterrent, an important feature of the matrix is the camera exclusion. If the operator recalls a video input or acts on a PTZ camera, the selected camera can be excluded and/or replaced by another video input from the switching sequence of any public monitor.

Following an alarm condition, in addition to a buzzer or on screen text, the SM328B is capable of intelligent actions: we can program on alarm actions on monitors (sequences and cameras) and on telemetry (scan or home position or patrol). For privacy reasons the video inputs can also be masked on fixed cameras.

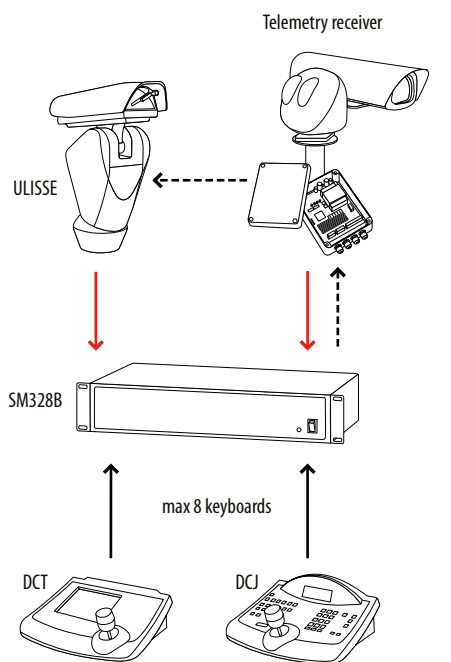
The matrix is equipped with 2 RS485 serial outputs.

Through these outputs we can perform telemetry or other matrix control. It is also possible to connect additional matrix in Master/Slave or Parallel systems. In a Master/Slave system the master matrix can receive 4 outputs from every Slave (max 4). See layout 2. In a Parallel system, up to 9 matrix can be connected together. See layout 3. In a Master/Slave system, Master keyboards can control all system cameras; Slave keyboards control only local cameras. In a Parallel system each keyboard can control all system cameras.

DCK, DCJ and DCT keyboards, microprocessor controlled, allow you to directly control cameras, switching sequences and alarm conditions.



SM328B



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

TECHNICAL DATA

GENERAL

Max 32 video inputs
 24 characters text identification for each camera
 Max 8 video outputs; one of these is optionally used for controlling the switching from video recorder
 32 independent automatic 32-step sequences
 Max 8 keyboards
 Complete setup OSD or by PC software on Windows 98/2000/XP
 Setup menu in four languages (Italian, English, French and German)
 Video signal masking on fixed camera for privacy purposes
 Camera exclusion feature if monitor is displayed in public areas
 On alarm: actions on monitors (sequences and cameras recall) and telemetry (scan on Home position or Patrol)
 Telemetry control on RS485 auxiliary line and on coaxial cable
 Complete event log channel
 Easy matrix control by PC

MANAGEMENT OF DATE AND TIME

3 time ranges: day, night or holidays
 At a weekly level, single days show 4 different time of starting/ending the daily sequence
 Management of 16 days for variable holidays
 Management of 8 closing terms
 Automatic management of daylight saving time (automatic for Europe/America/etc. and user defined)

TIME EVENTS

64 time events max within 24 hours which allows:

- enable/disable keyboards
- enable/disable alarm contacts
- enable/disable single relays

ALARMS

24 characters alarm message per contact out of 32 contacts
 32 alarm contacts, which can be configured one by one, 4 types of reset per contact:

- Time automatic reset, from 1 second to 1 hour from the contact enabling
- Reset from keyboard, after the authorised operator has entered a password
- External reset, after closing one contact
- Automatic reset for continual type alarm contacts, when the alarm signal stops

When an alarm is enabled, each output can independently proceed to acknowledge it (by selecting a cycling sequence or a fixed camera) or neglect it

Alarm contacts are selectable as NO or NC and are acknowledged based the enabling time range (day, night, or their combination)

The alarm contacts can be enabled/disabled even from a time event. Priority management based on the acknowledgement order, in case of multiple alarms. Warning buzzer and management of 8 relays on alarm

On alarm action on monitors (sequences and cameras) and on telemetry receivers (scan or home position or patrol)

SYSTEM SECURITY

Optional management of videoloss and videotape video recorder
 Keyboards can be time enabled/disabled based on the prescriptions of the matrix configuration
 Trigger VCR and some DVR management
 Supplied with instruction manual, 1 power cable, 1 serial cable 9 pins, 2 DB25 connectors, set-up disk, power supply

MECHANICAL

Steel enclosure
 Epoxypolyester powder painting, RAL7036 and black colours
 Dimensions: 2U, 180x430x94mm (7x17x3.7in) Rack 19"
 2 DB25 connectors (alarms and relays)
 6 RJ11 connectors (4 RJ11 for keyboards and 2 RJ11 for telemetry line)
 1 DB9 female connector (PC and serial printer)
 Power supply jack-connector
 32 BNC video inputs
 8 BNC video outputs
 2 BNC connectors (VCR trigger and alarms reset)

ELECTRICAL

External wide range power supply

- IN 100-240Vac - OUT 12Vdc, 47/63Hz, 2A

 Consumption: 24W
 32 inputs 75 Ohm 1Vpp (PAL/NTSC)
 8 outputs 75 Ohm 1Vpp (PAL/NTSC)
 Bandwidth: > 6MHz
 Lower cut-off frequency: (-3dB): 9Hz
 Signal/noise ratio: >47dB@5.5MHz
 Relay contacts: 50Vac/dc 0.5A max

PROTOCOLS

Telemetry Line

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

PELCO is registered trademark.

SM328B 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. 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.

COMMUNICATIONS

Four serial inputs RS485 for the reception of data from max 8 remote keyboards at a max distance of 1200m (3900ft)

Two auxiliary RS485 lines outputs for telemetry and other devices control at a max distance of 1200m (3900ft). Auxiliary A can be used to connect more matrix in master-slave or parallel systems

Serial input PC RS232 at a max distance of 15m (49ft) for matrix set-up, loading configuration from matrix to PC for analyzing the current settings and matrix control

ENVIRONMENT

Indoor
 Operating temperature: 0°C / +45°C (+32°F / +113°F)

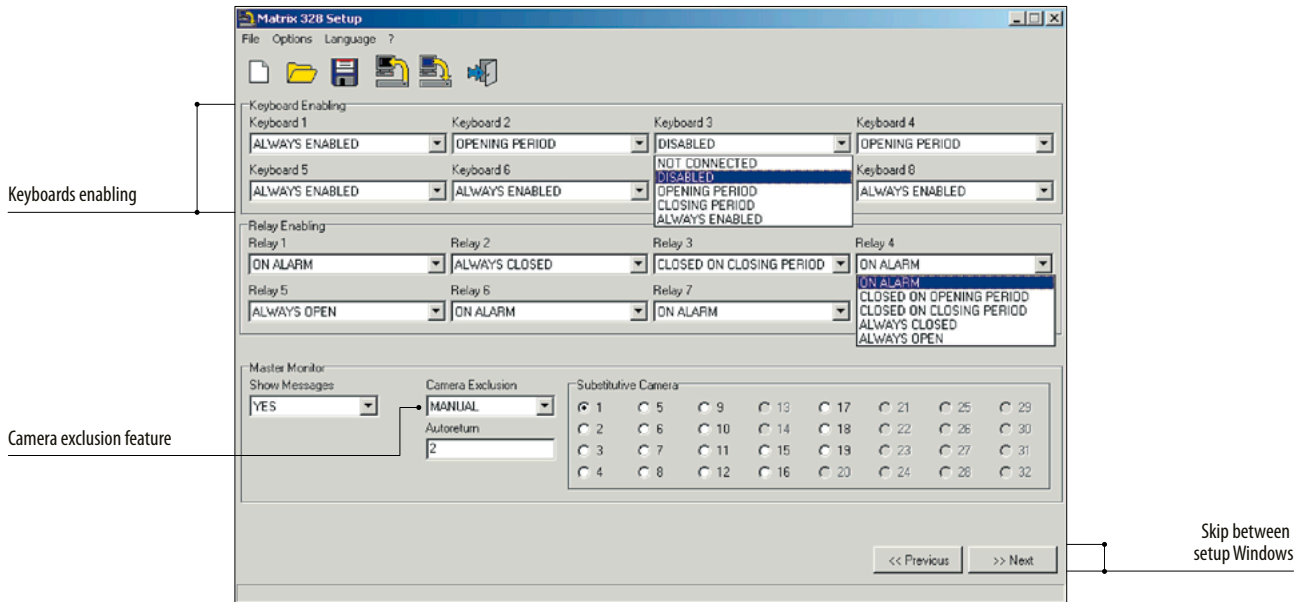
CERTIFICATIONS

CE EN60950-1, EN55022 Class B, EN50130-4
 FCC Part. 15 Class B

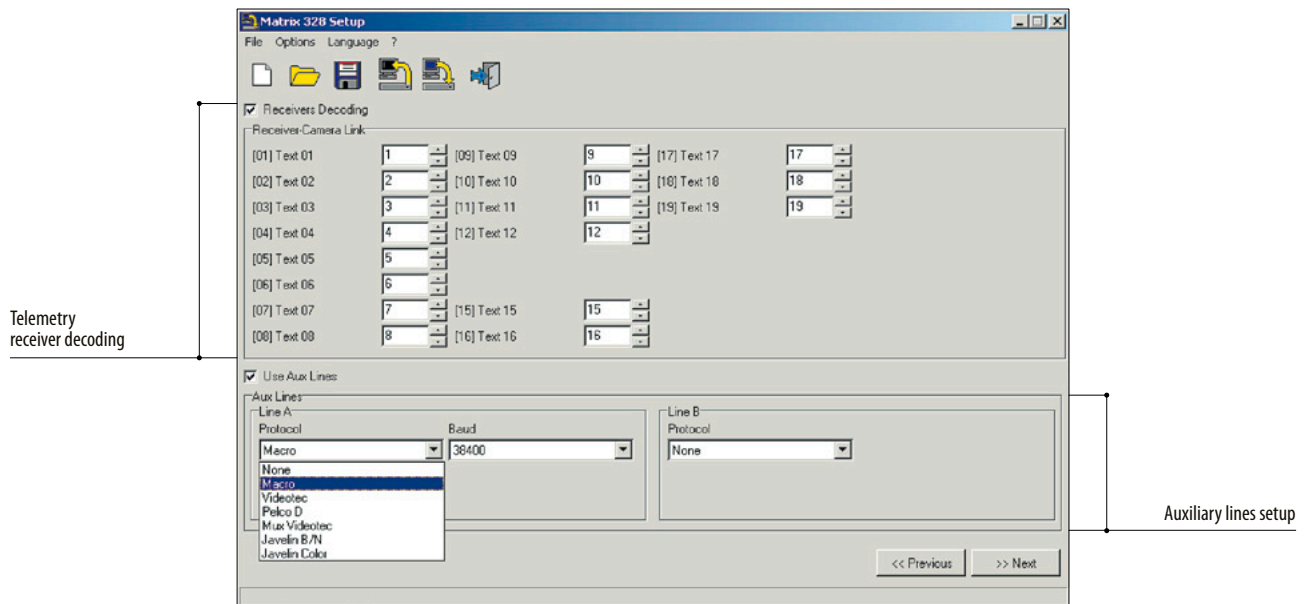
PACKAGE

Code	Unit weight		Package weight		Package dimensions (WxHxL)		Master carton unit
	kg	lb	kg	lb	cm	in	
SM328B	4.8	10.6	5.2	11.5	26.5x17.5x49.0	10.4x6.9x19.3	-

MATRIX SETUP

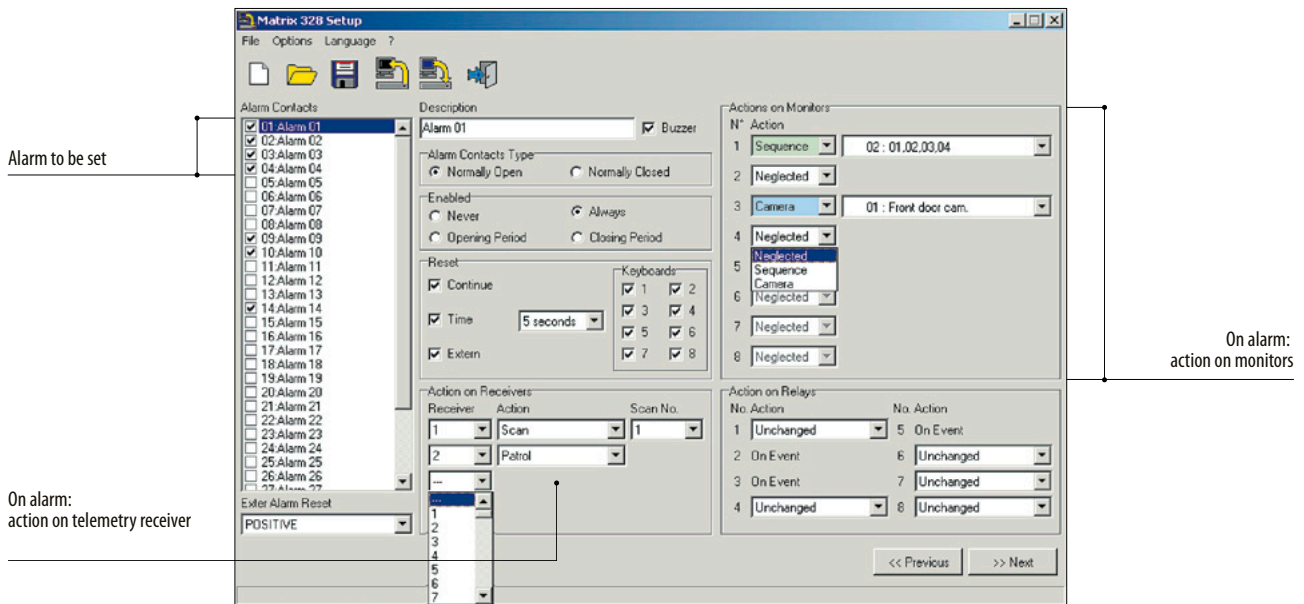


EXAMPLE: KEYBOARD ENABLING



EXAMPLE: TELEMETRY AND AUX SETUP

MATRIX SETUP



EXAMPLE: ALARMS SETUP

