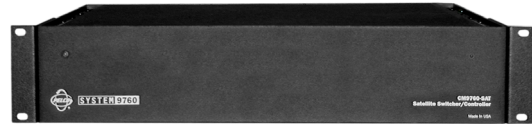


CM9760-SAT Matrix Switcher

CM9740/CM9760 SATELLITE VIDEO MATRIX SWITCHER, 16 X 4

Product Features

- 16-Input Satellite Switcher
- 4 Outputs; Programmable for Local Monitoring or Remote Tie Lines
- 16 Alarm Inputs for Both Local and Remote Alarm Handling
- Economical Solution for Remote Switching
- Compatible with Both CM9740 and CM9760 Systems (Requires Version 7.80.003 Software or Later)
- On-screen Programming via Local KBD300 Keyboard or Remote CM9760-KBD Keyboard



CM9760-SAT (FRONT)



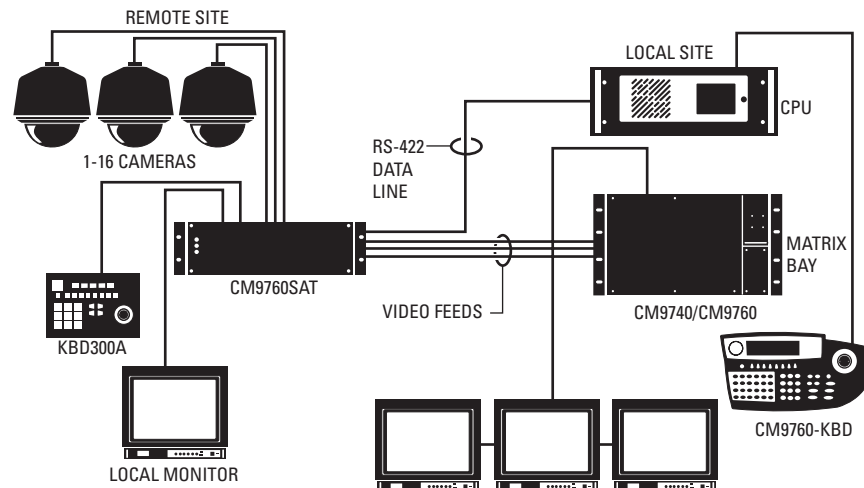
CM9760-SAT (BACK)

The **CM9760-SAT** allows you to distribute switching capability around a facility, reducing the number of coaxial cable runs to the 9740/9760 matrix and allowing local monitoring at the satellite switch locations. Up to 16 cameras can be connected to one **CM9760-SAT**. Four outputs are provided. At least one must be used for video feed to a camera input on the CM9740/CM9760 matrix bay. The others can be used for either local monitors or additional video feeds. This allows 16 cameras to share

- one video feed, one camera at a time, and three local monitors; or
- two video feeds, two cameras at a time, and two local monitors; or
- three video feeds, three cameras at a time, and one local monitor (see illustration below); or
- four video feeds, four cameras at a time, and no local monitor.

Cameras can be selected for viewing and controlled from either the main keyboard at the CM9740/CM9760 matrix bay or from a local keyboard at the satellite unit. In addition to camera selection and control, the satellite provides 16 alarm inputs that can transport alarms to the main control center.

The KBD200A and KBD300A keyboards can be used with the **CM9760-SAT**.



DataFAX
SPEC: 21510
MANUAL: Not Available through DataFAX

C1510 / REVISED 10-02



TECHNICAL SPECIFICATIONS

MODELS

CM9760-SAT	Satellite video matrix switcher, 16 inputs by 4 outputs, NTSC
CM9760-SAT-X	Satellite video matrix switcher, 16 inputs by 4 outputs, PAL

Note: Requires 9740/9760 System Software Version 7.80.003 or later

RELATED PRODUCTS

KBD200A	Desktop keyboard, multi-speed PTZ.
KBD300A	Desktop keyboard, variable-speed PTZ.
KBDKIT	Remote keyboard wiring kit. Required if connecting multiple keyboards to the remote keyboard port. Includes RJ-45 wall block and 120 VAC to 12 VAC transformer. (One kit required for each keyboard.)
KBDKIT-X	Same as KBDKIT except includes 230 VAC to 12 VAC transformer.

SWITCHING

Switching Duration	Programmable; user defined between 1 and 99 seconds
Programmable Number of Steps per Sequence	Sixteen
Maximum Number of Sequences	Four

VIDEO

Number of Inputs	Sixteen 75-ohm unbalanced terminating or looping; jumper selectable
Number of Outputs	Four (maximum) 75-ohm unbalanced
Level	1 Vp-p
Connector Type	Panel-mount BNC
Video Fail Detection	
Type	Vertical sync detector
Action	Switch to back-up sync generator
Connector Type	Panel-mount BNC
Bandwidth	17 Mhz
Frequency Response	Flat to 8 Mhz, ± 1.0 dB to 15 Mhz
Gain	Unity (± 1 dB)
Differential Gain	2% typical
Differential Phase	0.2 degree typical
Tilt	0.5% typical
Signal-to-Noise	-55 dB (peak-to-peak vs. RMS noise)
DC Output	Zero volts
Cross Talk	-50 dB typical at 3.58 Mhz

CHARACTER GENERATOR

Display	White with black border
Program Menu	Raster background with white characters

SAT COM CONNECTIONS

Connector Type	One 12-pin connector with mating plug (supplied)
Data Ports	
COM 1 (Receiver Control)	RS-422, P protocol; program selectable baud rate
COM 2 (Comm Interface)	RS-422, 9600 baud, odd parity, one stop bit

KEYBOARD INTERFACE

Protocol	Keyboard
Number of Ports	Two
One Local	RJ-45, 8-pin modular (powered)
One Remote	6-pin header with mating plug (KBDKIT required)
Number of Independent Keyboards	Four (combined total)
Data Rate	9600 baud

ALARM INTERFACE INPUTS

Number of Inputs	Sixteen
Connector Type	12-pin screw terminal
Sensing	Programmable, N.O./N.C.

AUXILIARY OUTPUTS

Number of Outputs	Three
Connector Type	12-pin screw terminal
Contact Configuration	
F1	Form C, 0.5 amp at 125 VAC maximum
F2 and F3	Open collector, 32 VDC, 25 mA maximum

POWER SUPPLY

Input Voltage	
CM9760-SAT	120 VAC, 50/60 Hz
CM9760-SAT-X	230 VAC, 50 Hz
Power Consumption	10 watts
Ambient Operating Temperature	20° to 120°F (-7° to 49°C)
Humidity	10% to 90%, non-condensing

PHYSICAL SPECIFICATIONS

Dimensions	3.5" H x 19.0" W x 10.5" D (2 RUs) (8.89 x 48.26 x 26.67 cm)
Mounting	Factory configured for EIA rack mount; rack ears can be removed for wall mount or free-standing applications.
Weight	
CM9760-SAT	10.15 lb (4.61 kg)
CM9760-SAT-X	10.06 lb (4.56 kg)
Shipping Weight	11 lb (4.99 kg)

CERTIFICATIONS

- CE, Class B (CM9760-SAT-X)
- UL Listed (CM9760-SAT)
- UL Listed to Canadian safety standards (CM9760-SAT)
- FCC, Class A (CM9760-SAT)



Pelco Worldwide Headquarters:

3500 Pelco Way, Clovis, California 93612-5699 USA

USA & Canada Tel: (800) 289-9100 • FAX (800) 289-9150 • DataFAX (800) 289-9108

International Tel: (559) 292-1981 • FAX (559) 348-1120 • DataFAX (559) 292-0435

www.pelco.com

Specifications subject to change without notice.
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