

CM9700MDD-EVS Matrix Digital Decoder

DIGITAL/ANALOG INTERFACE BETWEEN CM9700 MATRIX AND ENDURA™ SYSTEMS

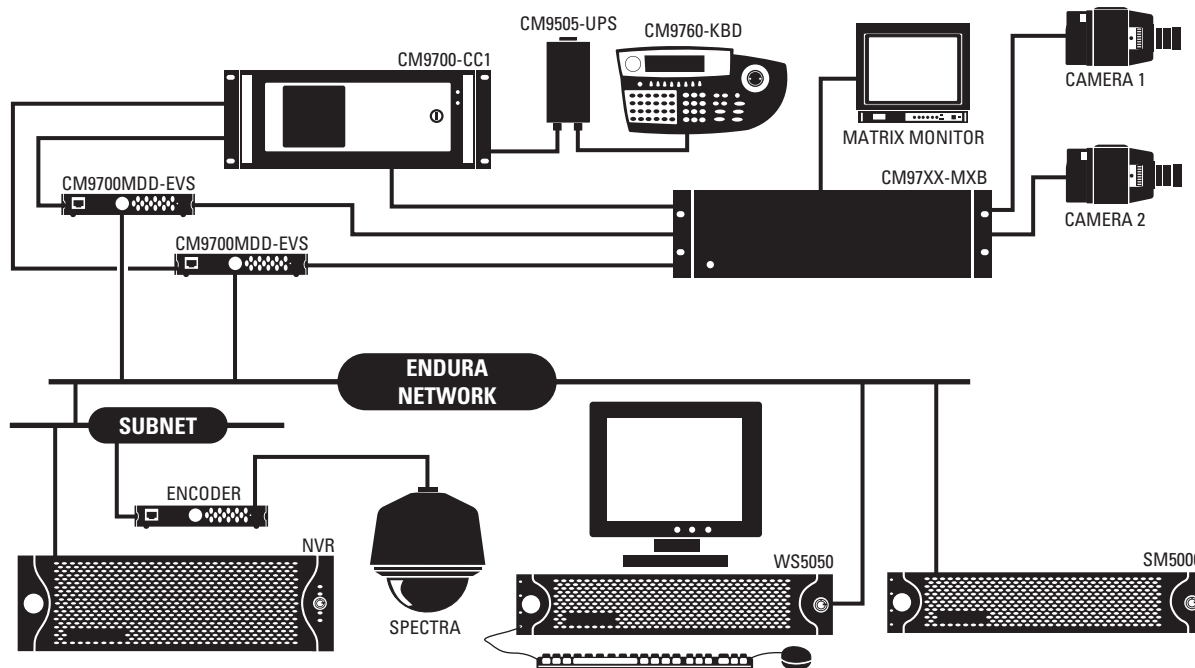
Product Features

- Provides an Interface Between CM9700 Matrix Switchers and Endura™ Distributed IP Video Security System
- Converts Digital Video Streams from Endura into Analog Video Viewable on a Pelco CM9700 Series Matrix Switcher
- Allows Expansion of Existing Analog Matrix Systems Using Endura Digital Components
- Use a CM9760-KBD to Access, View, and Control PTZ Functions from Endura System Cameras (connected via Endura Encoders)
- Use a CM9760-KBD to Control Video from Endura Recorders
- Optional Wall and Rack Kits Accommodate up to 12 Units



The **CM9700MDD-EVS** matrix digital decoder uses the latest Endura™ technology to transmit video from Endura products to the CM9700 Series matrix system (using 9.03.012 software, or higher). Adding the **CM9700MDD-EVS** to a matrix system allows a security operator to use the same CM9760-KBD keyboard functions to view and control video on both the Endura and matrix systems.

The **CM9700MDD-EVS** converts digital video streams from either Endura encoders or recorders into analog video and then outputs the video to the matrix switcher. Data is communicated over a serial connection between the **CM9700MDD-EVS** and the CM9700-CC1, and analog video is output to the matrix switcher using a BNC connection and coaxial cable.



IMPORTANT NOTE: PLEASE READ. The network implementation is shown as a general representation only and is not intended to show a detailed network topology. Your actual network will differ, requiring changes or perhaps additional network equipment to accommodate the system as illustrated. Please contact your local Pelco Representative to discuss your specific requirements.



TECHNICAL SPECIFICATIONS

MODEL

CM9700MDD-EVS	Matrix digital decoder (NET5301R optimized for use with matrix) that converts digital video streams from Endura products into analog video to be viewed and controlled on a Pelco CM9700 Series matrix switcher
---------------	---

SUPPLIED ACCESSORIES

Mating Connectors	One 16-pin
4-pin to 2-pin adapter	For user-supplied power supply

SYSTEM

Processor	Power PC® 405EP
Operating System	Linux®
Viewing and Control Setup/Configuration	Via CM9760-KBD (version 8.24 or higher)
Endura System	Via WS5050 or VCD5000
Matrix System	Via CM9700-MGR (version 9.03.012 or higher)

VIDEO/AUDIO

Video Standards	NTSC/PAL/EIA/CCIR composite	
Video Coding	MPEG-4	
Video Resolutions	NTSC	PAL
4CIF	704 x 480	704 x 576
2CIF	704 x 240	704 x 288
CIF	352 x 240	352 x 288
QCIF	176 x 120	176 x 144
Video Output	1, BNC, 75 ohms, 1 Vp-p	
Video Display Streams	1	
Video Display Modes	Single Image	
Audio Input	Reserved for future use	
Audio Output	Speaker or line out	
Audio Switch	Line, speaker	

SERIAL/ALARM/RELAY PORTS

Serial	Pelco P (RS-422); uses 4 of 16 pins on terminal block connector
Alarm Inputs	Reserved for future use
Relay Output	Reserved for future use

FRONT PANEL INDICATORS/FUNCTIONS

Network Connector	RJ-45, 10/100BaseT
Power	Blue
Status	Green, amber, red
Network Link/Speed	Amber, red
Network Activity	Green
Configuration/Reset	Recessed button, 4 states

POWER

Power Consumption	12 watts, 41 BTU/H
Power Input	12 VDC ±10%/-15%
	24 VAC ±10%/-15%
Power Connectors	
4-pin	For RK5000PS-5U or NET5301PS
4-pin to 2-pin adapter	For user-supplied power supply

ENVIRONMENTAL

Operating Temperature Range	32° to 122°F (0° to 50°C)
Storage Temperature Range	-40° to 149°F (-40° to 65°C)
Operating Humidity	20% to 80%, noncondensing
Maximum Humidity Gradient	10% per hour
Operating Altitude	-50 ft to 10,000 ft (-16 m to 3,048 m)
Operating Vibration	0.25 G at 3 Hz to 200 Hz at a sweep rate of 0.5 octave/minute

PHYSICAL

Construction	Sheet metal
Finish	Gray metallic with black end caps, black matte finish
Dimensions	8.75" D x 6.5" W x 1.2" H (22.2 x 16.5 x 3.0 cm)
Mounting	Desktop (feet), wall, or rack via options
Unit Weight	2.0 lb (0.9 kg)
Shipping Weight	5.0 lb (2.3 kg)

COMPATIBLE PRODUCTS

Matrix Switching Systems	CM9700 Series matrix systems (CM9760, CM9770, CM9780; using 9.03.012 software, or higher)
Endura system components	

OPTIONAL ACCESSORIES

RK5000PS-5U	Rack mount with power supply (12 units)
WM5001-4U	Wall mount without power supply (1 unit)
WM5001-4UEXP	Wall mount expansion (1 unit)

RECOMMENDED POWER SUPPLIES

NET5301PS	Power supply for one CM9700-MDD-EVS (4-pin connector)
TF2000	Power supply for one CM9700-MDD-EVS (4-pin to 2-pin adapter)
MCS Series	Multiple unit power supply, indoor

CERTIFICATIONS AND REGULATIONS

- CE, Class B
- UL Listed
- UL Listed to Canadian safety standards
- FCC, Class B
- C-Tick

STANDARDS/ORGANIZATIONS

- Pelco is a member of the MPEG-4 Industry Forum
- Pelco is a member of the Universal Plug and Play (UPnP) Forum
- Pelco is a member of the Universal Serial Bus (USB) Implementers Forum
- Pelco is a contributor to the International Standards for Organization/Electrotechnical Commission (ISO/IEC) Joint Technical Committee 1 (JTC1), "Information Technology," Subcommittee 29, Working Group 11
- Compliance, ISO/IEC 14496 standard (also known as MPEG-4)
- Compliant with International Telecommunication Union (ITU) Recommendation G.711, "Pulse Code Modulation (PCM) of Voice Frequencies"

Endura distributed, network-based products are available only to certified dealers/integrators. Please contact your local sales representative for details on certification applications and requirements. Additional information on Endura products and certifications may be found at <http://www.pelco.com/endura>.

All CM9700 Matrix Series systems require installation by a Pelco Certified Dealer/Installer. This specification sheet may be used for purpose of information only and does not constitute approval or certification of receiving party. Proof of certification must be provided prior to shipment of CM9700 Systems contained herein.



Pelco Worldwide Headquarters:
3500 Pelco Way, Clovis, California 93612-5699 USA
USA & Canada Tel: (800) 289-9100 • FAX (800) 289-9150
International Tel: (559) 292-1981 • FAX (559) 348-1120
www.pelco.com

Pelco and the Pelco logo are registered trademarks of Pelco.
Endura and EnduraView are trademarks of Pelco.
PowerPC is a registered trademark of International Business Machines Corporation.
Linux is a registered trademark of Linus Torvalds.
Specifications subject to change without notice.
©Copyright 2005, Pelco. All rights reserved.