

## **ENDURA® – CM9700MDD-EVS MATRIX DIGITAL DECODER**

### **TECHNICAL SPECIFICATIONS**

### **SECURITY SYSTEM**

#### **DIVISION – 28 ELECTRONIC SAFETY AND SECURITY**

#### **LEVEL 1\_\_\_28 20 00 ELECTRONIC SURVEILLANCE**

#### **LEVEL 2\_\_\_28 23 00 VIDEO SURVEILLANCE**

#### **LEVEL 3\_\_\_28 23 13 VIDEO SURVEILLANCE CONTROL AND MANAGEMENT SYSTEMS**

### **PART 2 – PRODUCTS**

#### **2.01 GENERAL**

- A. All equipment and materials used shall be standard components that are regularly manufactured and used in the manufacturer's system.
- B. All systems and components shall have been thoroughly tested and proven in actual use.
- C. All systems and components shall be provided with the availability of a toll-free (U.S. and Canada), 24-hour technical assistance program (TAP) from the manufacturer. The TAP shall allow for immediate technical assistance for either the dealer/installer or the end user at no charge for as long as the product is installed.
- D. All systems and components shall be provided with a one-day turnaround repair express and 24-hour parts replacement. The repair and parts express shall be guaranteed by the manufacturer on warranty and nonwarranty items.
- E. The matrix digital decoder shall be installed by an Endura® certified dealer/integrator. Certification for installation shall be conducted by the manufacturer and shall provide all necessary knowledge to fulfill the systemization and deployment across diverse networks and infrastructures, as well as provide commissioning abilities at the integrator level.

#### **2.02 MATRIX DIGITAL DECODER**

- A. The matrix digital decoder shall be fully Endura compatible. It shall be one component of an Endura network system.
- B. The matrix digital decoder shall transmit video from Endura products and allow a security operator to use the same keyboard functions to view and control video on both systems.
- C. The matrix digital decoder shall convert digital video streams into analog video, outputting the video to the matrix switcher.
- D. The matrix digital decoder shall be operated by either a 12 VDC or a 24 VAC power source. Each unit shall support NTSC and PAL video formats.
- E. The matrix digital decoder shall allow the operator to gain access providing viewing and control to any and all digital cameras, and recorded video through the analog keyboard of the matrix switcher.
- F. The matrix digital decoder shall meet or exceed the following design and performance specifications.

**2.03 POWER SPECIFICATIONS**

A. Power Consumption	12 W, 41 BTU/H
B. Power Input	12 VDC $\pm 10\%$ 24 VAC $\pm 10\%$
C. Power Connectors	
1. 4-Pin	For RK5100UPS-5U or NET5301PS
2. 4-Pin to 2-Pin Adapter	For user-supplied power supply

**2.04 ENVIRONMENTAL SPECIFICATIONS**

A. Operating Temperature	32° to 122°F (0° to 50°C) at unit air intake (front of unit)
B. Operating Humidity	20% to 80%, noncondensing
C. Maximum Humidity Gradient	10% per hour
D. Operating Altitude	-50 ft to 10,000 ft (-15.2 m to 3,048 m)
E. Operating Vibration	0.25 G at 3 Hz to 200 Hz at a sweep rate of 0.5 octave/minute

**2.05 PHYSICAL SPECIFICATIONS**

A. Construction	Sheet metal
B. Finish	Gray metallic with black end caps, black matte finish
C. Dimensions	8.75" D x 6.50" W x 1.20" H (22.2 x 16.5 x 3.0 cm)
D. Mounting	
1. Desktop	Rubber feet provided
2. Wall or rack	Optional mounting accessories required
E. Unit Weight	2.0 lb (0.9 kg)

**2.06 SYSTEM SPECIFICATIONS**

A. Video	
1. Video Standards	NTSC/PAL/EIA/CCIR composite
2. Video Coding	MPEG-4
3. Video Resolutions	<u>NTSC</u> <u>PAL</u>
a. 4CIF	704 x 480                  704 x 576
b. 2CIF	704 x 240                  704 x 288
c. CIF	352 x 240                  352 x 288
4. Video Output/Connector Type	1, BNC, 75 ohms, 1 Vp-p
5. Video Display Stream	1
6. Video Display Mode	Single image
B. Audio	
1. Audio Input	Reserved for future use
2. Audio Output	Speaker or line out
3. Audio Switch	Line, speaker
C. System	
1. Operating System	Linux®
2. Viewing and Control	CM9760-KBD (Version 8.24 or higher)
3. Setup and Configuration	
a. Endura System	Endura workstation or VCD5000
b. Matrix System	CM9700-MGR (version 9.03.012 or higher)

- |                                     |   |
|-------------------------------------|---|
| D. Network                          |   |
| 1. Interface                        | 1, Ethernet RJ-45 port (10/100Base-T)                           |
| E. Serial/Alarm/Relay Ports         |   |
| 1. Serial                           | Pelco P (RS-422); uses 4 of 16 pins on terminal block connector |
| 2. Alarm Inputs                     | Reserved for future use   |
| 3. Relay Output                     | Reserved for future use   |
| F. Front Panel Indicators/Functions |   |
| 1. Network Connector                | RJ-45, 10/100Base-T   |
| 2. Power                            | Blue  |
| 3. Status                           | Green, amber, red   |
| 4. Network Link/Speed               | Amber, red  |
| 5. Network Activity                 | Green   |

## 2.07 CERTIFICATIONS

- A. CE, Class B
- B. FCC, Class B
- C. UL/cUL Listed
- D. C-Tick
- E. GOST

## 2.08 STANDARDS/ORGANIZATIONS

- A. Pelco is a member of the MPEG-4 Industry Forum
- B. Pelco is a member of the Universal Plug and Play (UPnP) Forum
- C. Pelco is a member of the Universal Serial Bus (USB) Implementers Forum
- D. 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
- E. Compliance with ISO/IEC 14496 standard (also known as MPEG-4)
- F. Compliant with International Telecommunication Union (ITU) Recommendation G.711, "Pulse Code Modulation (PCM) of Voice Frequencies"

## 2.09 WARRANTY

- A. 3 years, parts and labor

## 2.10 SUPPLIED ACCESSORIES

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|---------------------------|--------------------------------|
| A. Mating Connectors      | 1, 16-pin                      |
| B. 4-pin to 2-pin adapter | For user-supplied power supply |

## 2.11 PELCO MODEL NUMBER

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