

CM9700UTP Series Multichannel Video Receiver

ACTIVE VIDEO TRANSMISSION OVER UNSHIELDED TWISTED PAIR

Product Features

- 16- or 32-Channel Active Video Receiver
- Full Motion Color/Black-White Video up to 4,000 ft (1,219 m)
- Adaptive Video Equalization Technology Within Defined Distance Range
- Video, Fan, and Temperature Indicators and an Audible Alarm
- UTP Range Selection and Indicators
- Each Channel Has a BNC Connector for Video Output
- Compatible with All Pelco Cameras, Enclosures, and Domes Equipped with Twisted Pair
- Video Ribbon Cable Connectors for Connecting to a CM9700 Series Matrix
- Easy Termination with RJ-45 UTP Connectors
- Optional Patch Panels Convert RJ-45 Connections to Individual Screw Terminal Connections

The **CM9700UTP Series** multichannel active receiver is a 16- or 32-channel unit that can receive live video over unshielded twisted pair (UTP) cable. The **CM9700UTP Series** receives full motion color or black-white video up to 3,000 ft (900 m) using Cat5 or 4,000 ft (1,200 m) using Cat5e or Cat6 UTP cable. The unit can be connected to the optional TW3016-PATCH1 or TW3032-PATCH1 patch panel. Each unit can be connected to a CM9780-MXB matrix using the provided video ribbon cable connectors.

The **CM9700UTP Series** front panel controls and indicators make the unit quick and easy to configure and use. The unit provides a rotary switch and LED for each channel. Use the rotary switch to select a UTP cable distance: 1,000 ft (300 m); 2,000 ft (600 m); 3,000 ft (900 m); or 4,000 ft (1,200 m).

For optimal tuning, adjust the rotary switch to the correct color video range position; the device automatically adjusts the gain and adapts to the cable length. The channel LED glows green when color video is received over UTP and the unit is properly tuned, orange when black-white video is received, and red when no video is received over UTP.



CM9700UTP16A



CM9700UTP32A

- Supports NTSC and PAL
- Built-In Surge Suppression for UTP Video Inputs
- Can Be Mounted into a Standard EIA 19-Inch Rack

The **CM9700UTP Series** Pelco badge glows blue when the unit has power. If a fan fails or the unit operating temperature rises above 95°F (35°C), the Pelco badge flashes and an alarm sounds. Additionally, each fan is equipped with an LED that glows red to indicate fan failure.

The unit's adaptive video equalization technology ensures high-quality video processing by correcting for video transmission losses over UTP cable within the selected distance range. The **CM9700UTP Series** automatically adapts to cable lengths within the selected range for composite signals with colorburst, and it allows fixed-equalization settings for video signals without burst. The device also compensates for low frequency and chroma band losses.

Conveniently make video input and output cable connections through the unit's back panel. The **CM9700UTP Series** provides 16- or 32-channel BNC video output connectors and eight RJ-45 UTP video input ports (four video inputs per port). One or two video ribbon cable connectors, depending on the model, are provided for interfacing the **CM9700UTP Series** to a CM9780-MXB matrix.



TECHNICAL SPECIFICATIONS

MODEL

CM9700UTP16A	16-channel active receiver; 16 BNC connectors, four RJ-45 video input connectors, and one ribbon cable connector
CM9700UTP32A	32-channel active receiver; 32 BNC connectors, eight RJ-45 video input connectors, and two ribbon cable connectors

A suffix of -US, -UK, -EU, or -AU is added to the model number when ordering a region-specific power cord. For example, CM9700UTP32A-US is the base model with a power cord for use in the United States. Refer to the following table.

Suffix	Part Number	Region
-US	US-320-C13	United States
-UK	UK-320-C13	United Kingdom, Ireland, and Hong Kong
-EU	EU-320-C13	Most of continental Europe
-AU	AU-320-C13	Australia and New Zealand

SUPPLIED ACCESSORIES

1 power cord (USA, UK, EU, or AU)
8 UTP Cat5e cable assemblies, 2.0 ft (0.61 m)
Rack hardware

VIDEO

Video Standards	NTSC/PAL/EIA/CCIR composite
Video Outputs	
CM9700UTP16A	16 BNC and 1 ribbon cable connector
CM9700UTP32A	32 BNC and 2 ribbon cable connectors
Frequency Response	50 Hz to 6 MHz
Common Mode/Differential	
Mode Rejection	>60 dB
Video Output	1.2 Vp-p

ELECTRICAL

Input Voltage	100 to 240 VAC, 50 to 60 Hz, autoranging
Input Current	
CM9700UP16A	0.38 A
CM9700UTP32A	0.75 A
Wire Type	UTP (24 AWG minimum)
Wire Category	Cat5, Cat5e, or Cat6
Wire Distance	
Cat5	3,000 ft (914 m)
Cat5e and Cat6	4,000 ft (1,219 m)
DC Loop Resistance	20 ohms per 328 ft (100 m)
Differential Capacitance	6.6 nF/328 ft (100 m) maximum
Transient Immunity	300 W peak pulse power (8/20 US)
Single wire (solid)	24 AWG (0.25 mm ²)
Stranded wire (flexible)	24 AWG (1.0 mm ²)

MECHANICAL

Connectors	
BNC	Video output
Ribbon Cable Connector	Video output
RJ-45	UTP input
Power Connector	IEC connector
Construction	Steel chassis, aluminum front panel
Finish	Black matte finish

FRONT PANEL INDICATORS/FUNCTIONS

Pelco Badge	
Power	Blue
Temperature and Fan Status	Flashes blue
Alarm Status	Audible
Video Status	Green, red, orange
Fan Alarm	Red

ENVIRONMENTAL

Operating Temperature	32° to 95°F (0° to 35°C) at unit air intake
Relative Humidity	90% maximum, noncondensing

Note: The temperature at the unit air intake can be significantly higher than room temperature. Temperature is affected by rack configuration, floor layout, air conditioning strategy, and other issues. To prevent performance failure and unit damage, make sure the temperature at the unit is continuously within the operating temperature range.

PHYSICAL

Dimensions	9.00" D x 18.80" W x 1.72" H (23.00 x 47.80 x 4.37 cm)						
Weight (approximate)	<table><tr><th>Unit</th><th>Shipping</th></tr><tr><td>CM9700UTP16A</td><td>8.10 lb (3.68 kg) 13.00 lb (5.90 kg)</td></tr><tr><td>CM9700UTP32A</td><td>9.25 lb (4.19 kg) 14.00 lb (6.40 kg)</td></tr></table>	Unit	Shipping	CM9700UTP16A	8.10 lb (3.68 kg) 13.00 lb (5.90 kg)	CM9700UTP32A	9.25 lb (4.19 kg) 14.00 lb (6.40 kg)
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CERTIFICATIONS/RATINGS

- CE, Class B
- FCC, Class B
- UL/cUL Listed
- C-Tick

OPTIONAL ACCESSORIES

TW3001P	Single-channel passive transceiver
TW3004P	4-channel passive transceiver
TW3008P	8-channel passive transceiver
TW3016P	16-channel passive transceiver
TW3032P	32-channel passive transceiver
TW3001AT	Active transmitter
TW3016-PATCH1	16-channel patch panel
TW3032-PATCH1	32-channel patch panel

Pelco, Inc. Worldwide Headquarters:

3500 Pelco Way, Clovis, California 93612-5699 USA

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

International Tel: +1 (559) 292-1981 • FAX: +1 (559) 348-1120

www.pelco.com

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