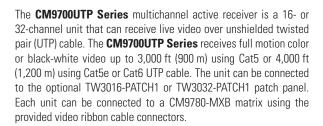
# **CM9700UTP Series Multichannel Video Receiver**

# 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** 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.





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

>60 dB Mode Rejection Video Output 1.2 Vp-p

# **ELECTRICAL**

Input Voltage 100 to 240 VAC, 50 to 60 Hz, autoranging

Input Current

CM9700UP16A 0.38 A CM9700UPT32A 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<sup>2</sup>) Stranded wire (flexible) 24 AWG (1.0 mm<sup>2</sup>)

## **MECHANICAL**

Connectors

**BNC** Video output Ribbon Cable Connector Video output R.J-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

#### **ENVIRONMENTAL**

32° to 95°F (0° to 35°C) at unit air intake Operating Temperature

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**

9.00" D x 18.80" W x 1.72" H Dimensions

(23.00 x 47.80 x 4.37 cm)

Weight (approximate) 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)

## **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