



# TW3008AR-4 Eight-Channel Video Receiver

## ACTIVE VIDEO TRANSMISSION OVER UNSHIELDED TWISTED PAIR

### Product Features

- Adaptive Technology Eliminates Manual Adjustments
- Full Motion Color/Black -White Video up to 4,000 Feet (1,219 meters)
- Supports Coaxitron® Control (PTZ Control Signals) up to 750 Feet (228.6 meters)
- Compatible with All Pelco Twisted Pair Equipped Cameras, Enclosures, and Domes
- Built-In Surge Suppression
- Each Channel Has 4 BNC Connectors for Video Output
- Easy Termination with a Removable UTP Connector for Each Channel
- Supports NTSC, PAL, and SECAM
- Power Supply with an IEC 320-C13 Socket for Interchangeable AC Power Cords (US, UK, AU, EU)
- Can Be Mounted Into a Standard EIA, 19-Inch Rack



The **TW3008AR-4** is an eight-channel active receiver that can receive live video over unshield twisted pair (UTP) cable.

The adaptive technology in the **TW3008AR-4** automatically adjusts the low, medium, and high frequency components of the video signal allowing for the best possible video transmission. The adaptive technology eliminates the need for manual adjustment by automatically adjusting to provide the most favorable video transmission depending on cable length. The unit has been optimized for use with Cat5e and Cat6 cable, although Cat3 and Cat5 cable can be used for shorter distances.

The front of the receiver is equipped with dials and LEDs for each of the eight channels. The dials are used for selecting the cable distance. You can leave the dial on auto (default adaptive technology) or manually select 1,000 feet (304 meters), 2,000 feet (609 meters), 3,000 feet (914 meters), or 4,000 feet (1,219 meters). The LEDs light green when UTP video is being received and red when no UTP video is being received. A flashing amber LED indicates that there are Coaxitron® pan/tilt/zoom (PTZ) control commands being received.

The back of the receiver has four BNC connectors for each channel and one UTP connector for each channel. Only BNC A of each channel can be used for Coaxitron control. The other BNC connectors are for connecting to other equipment, such as monitors and DVRs. The back of the unit also contains a 5 mm barrel power connector and the 6-pin Molex® power connector can be used in a multiunit installation with the optional EPS5000-120TW rack-mountable external power supply. The EPS5000-120TW provides redundant power for the TW3008AR-4.

The **TW3008AR-4** allows for multiple applications. You can connect to transmitters, such as the TW3001P passive transceiver and the TW3001AT active transmitter, and to Pelco UTP cameras, such as the CC3710/CC3610 series. You can also connect the receiver to a matrix switcher, such as the CM6800. Although you can connect these products using an unshielded twisted pair Cat3 and Cat5 cable, Cat5e and Cat6 are recommended for the best video performance.



C1668 / REVISED 1-07



International Standards  
Organization Registered Firm;  
ISO 9001 Quality System



# TECHNICAL SPECIFICATIONS

## MODELS

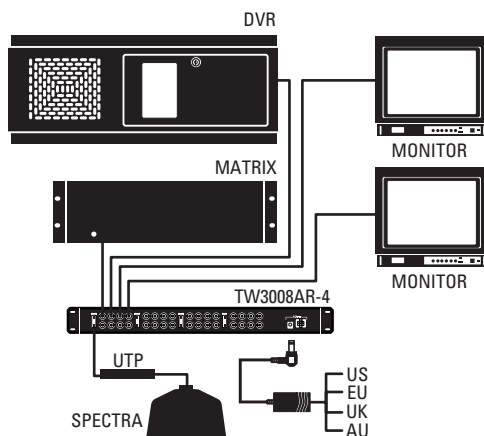
TW3008AR-4 8 channel active receiver; base model  
A suffix of -US, -UK, -AU, or -EU is added to the above model number when ordering a region-specific power cord. For example, a TW3008AR-4-US is a base model with a power cord for use in the United States.

## ELECTRICAL

Input Voltage	12 VDC
Current	2.25 A
Wire Type	Unshielded twisted pair (24 AWG minimum)
Wire Category	Cat3 or better
Wire Distance	4,000 feet (1,219.2 meters) maximum using Cat5e or Cat6

Cable Type	Maximum Distance (with Coaxitron)	Maximum Distance (video only)
Cat3	750 ft (228.6 m)	1,500 ft (457.2 m)
Cat5	750 ft (228.6 m)	3,000 ft (914.4 m)
Cat5e	750 ft (228.6 m)	4,000 ft (1,219.2 m)
Cat6	750 ft (228.6 m)	4,000 ft (1,219.2 m)

DC Loop Resistance	52 ohms per 1,000 feet (304.8 meters)
Differential Capacitance	19pF/ft max
Transient Immunity	300 W peak pulse power (8/20 US)



TYPICAL CONFIGURATION

## VIDEO CHARACTERISTICS

Video Output	32 BNC
Format	NTSC, PAL, SECAM
Frequency Response	DC to 10 MHz
Common Mode/Differential Mode Rejection	>70 dB

## MECHANICAL

Connectors	BNC	Video output
6-Pin Connector		For use with EIA rack-mounted power supply accessory
2-Pin Connector (2.5 mm)		UTP input
Barrel Connector		For connection to external power supply

## GENERAL

Construction	Aluminum
Finish	Black
Operating Temperature	32° to 167°F (0° to 75°C)
Relative Humidity	0 to 90%, noncondensing
Data Transmission	Supports Coaxitron up to 750 feet (228.6 meters)
LED Indicators	8 status LEDs
Dimensions	11.00" D x 17.25" W x 1.72" H (27.94 x 43.82 x 4.37 cm)
Unit Weight	4.5 lb (2.04 kg)
Shipping Weight	9 lb (4.08 kg)

## CERTIFICATIONS

- CE, Class A
- UL Listed
- UL Listed to Canadian safety standards
- FCC, Class A

## OPTIONAL ACCESSORIES

EPS5000-120TW	External rack power supply, 1 RU, 120 W power output; provides redundant power for TW3008AR-4
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