

TW3001AR Single-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
- Easy Termination with Removable UTP Connector
- Supports NTSC, PAL, and SECAM
- Can Be Mounted Into a Pelco Fiber Rack



The **TW3001AR** is a single-channel active receiver that can receive live video over unshielded twisted pair (UTP) cable.

The adaptive technology in the **TW3001AR** 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 needed. The unit has been optimized for use with Cat5e and Cat6 cable, although Cat3 and Cat5 cable can be used for shorter distances.

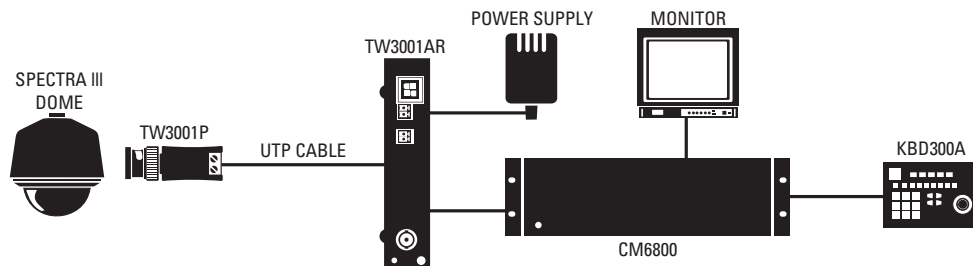
The DIP switch on the bottom of the **TW3001AR** allows you to override the adaptive technology and manually select the cable distance. You can select either 1,000 feet (304 meters), 2,000 feet (609 meters), 3,000 feet (914 meters), or 4,000 feet (1,219 meters).

The LED on the front of the unit indicates the status of the receiver. When it lights red there is no UTP video being received. A green light means that UTP video is being received. A flashing amber light means that there are pan/tilt/zoom (PTZ) and Coaxitron control

commands being received. The blue Pelco badge indicates there is power whether you are using the 4-pin rack power connector or the 2-pin power connector. The **TW3001AR** has built-in surge suppression.

The **TW3001AR** allows for multiple applications. For example, you can connect the receiver to a matrix switcher, such as the CM6800, and to passive devices, such as the TW3001P transceiver balun. The transmission distance when using Cat5e ranges from 1,000 feet (304 meters) to 4,000 feet (1,219 meters). For Coaxitron®-control devices, 750 feet (228 meters) is the maximum distance over UTP.

The receiver can be mounted into a fiber rack (RK5000PS-3U/ RK5000-3U), into the WM5001-3U wall mount base kit, or into the supplied wall clip. Each receiver also has four rubber feet allowing you to place it on a flat surface, such as a desk or shelf.



TECHNICAL SPECIFICATIONS

MODELS

TW3001AR Active, single-channel video receiver

ELECTRICAL

Input Voltage 12 VDC or 24 VAC, 50-60Hz
Power Consumption 2.5 W
Wire Type Unshielded twisted pair (24 AWG maximum)
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
Differential Capacitance 19pF/ft max
Transient Immunity 300 W peak pulse power (8/20 US)

VIDEO CHARACTERISTICS

Video Output 1 BNC
Format NTSC, PAL, SECAM
Frequency Response DC to 10 MHz
Common Mode/Differential Mode Rejection >70 dB

MECHANICAL

Connectors
BNC Video output
4-Pin Connector Rack power
2-Pin Connector (2.5 mm) UTP input/output
2-Pin Connector (3.5 mm) Power

GENERAL

Construction Steel
Finish
Front Panel Gray metallic with black end caps
Chassis Black matte finish
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 Pelco Badge
Status LED
Dimensions 8.75" D x 1.08" W x 4.81" H (22.23 x 2.74 x 12.22 cm)
Unit Weight 1.0 lb (0.45 kg)
Shipping Weight 3 lb (1.36 kg)

CERTIFICATIONS

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

OPTIONAL ACCESSORIES

WM5001-3U Wall mount base kit for single-width module
WM5001-3UEXP Wall mount expansion kit for single-width module
RK5000-3U 19-inch rack mount chassis for 14 slots, no power (3 RUs)
RK5000PS-3U 19-inch rack mount chassis for 12 slots, no power (3 RUs)
EPS5000-120 External/redundant power supply, 1 RU, 120 W x 2
RK5001B-3U Blank filler panel, single width, for rack mount



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