

# TW3032AR Thirty-Two 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 a BNC Connector for Video Output
- Easy Termination with the RJ-45 UTP Connectors
- Optional Patch Panel Converts RJ-45 Connections to Individual Screw Terminal Connections
- 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 **TW3032AR** thirty-two channel active receiver can receive live video over unshielded twisted pair (UTP) cable. The **TW3032AR** can be connected to the optional TW3032-PATCH1 patch panel.

The adaptive technology in the **TW3032AR** 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 has a dial and an LED for each channel. The dial is 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). An LED lights green when UTP video is being received and red when no UTP video is being received. A flashing amber LED means that there are Coaxitron® pan/tilt/zoom (PTZ) control commands being transmitted.

The back of the receiver has 32 BNC connectors for video output, RJ-45 video input connectors for connecting to a TW3032-PATCH1 patch panel, a 5 mm barrel power connector, and a 6-pin Molex® power connector that can be used in a multiunit installation with the optional EPS5000-120TW rack-mountable external power supply. The EPS5000-120TW also provides redundant power for the **TW3032AR**.



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International Standards  
Organization Registered Firm,  
ISO 9001 Quality System



# TECHNICAL SPECIFICATIONS

## MODEL

TW3032AR 32-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 TW3032AR-US is a base model with a power cord for use in the United States. Please reference the following table.

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

Configurations that include a patch panel are available for the TW3032AR. A model number with a 1 after AR indicates that the configuration includes a TW3032-PATCH1 patch panel. Please reference the following table.

Model Number	Receiver	Patch Panel
TW3032AR1-US	TW3032AR	TW3032-PATCH1
TW3032AR1-UK	TW3032AR	TW3032-PATCH1
TW3032AR1-AU	TW3032AR	TW3032-PATCH1
TW3032AR1-EU	TW3032AR	TW3032-PATCH1

## ELECTRICAL

Input Voltage	12 VDC, 50-60 Hz
Current	4.25 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)
Insertion Loss	72 dB over; 0-8 MHz frequency range

## 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	Video output
BNC	For use with EIA rack-mounted power supply accessory
6-Pin Connector	UTP input
RJ-45	For connection to external power supply
Barrel Connector	

## 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	Thirty-two 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	4.7 lb (2.12 kg)
Shipping Weight	9 lb (4.08 kg)

## CERTIFICATIONS/RATINGS

- 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 TW3032AR
TW3032-PATCH1	Patch panel



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