

# TW4004AR Four-Channel Video Receiver

## ACTIVE VIDEO TRANSMISSION OVER UNSHIELDED TWISTED PAIR

### Product Features

- Full Motion Color or Black-White Video up to 4,000 Feet (1,219 m)
- Compatible with All Pelco Twisted Pair Equipped Cameras, Enclosures, and Domes
- Built-In Surge Suppression
- Easy Termination with RJ-45 UTP Connector
- Supports NTSC, PAL, EIA, and CCIR Composite
- Push-Button Configuration for Quick, Easy Setup



The **TW4004AR** is a 4-channel active receiver that can receive live video over unshield twisted pair (UTP) cable. The **TW4004AR** 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 **TW4004AR** front panel controls and indicators make the unit quick and easy to configure and use. The unit provides a rotary switch and an LED indicator for each channel, DIP switches for video gain settings, and push button and LED indicators for configuring the unit. Use the configuration button and LED indicators to determine the correct rotary switch position depending on 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). Front panel LEDs indicate the video status of each channel. The Pelco badge indicates power and the environmental alarm conditions of each unit.

The **TW4004AR** allows for multiple applications. You can connect it to transmitters, such as the TW4001P passive transceiver and the TW3001AT active transmitter, and to UTP-supported cameras. You can also connect the receiver to a matrix switcher, such as the CM6800. Although you can connect these products using Cat5 UTP cable, Cat5e and Cat6 UTP cables are recommended for the best video performance.

The receiver can be mounted using the RK5100PS-5U rack mount or the WM5001-4U wall mount base kit. Each receiver also has four rubber feet allowing for placement on a flat surface, such as a desktop or a shelf.



# TECHNICAL SPECIFICATIONS

## MODEL

TW4004AR Active, 4-channel video receiver

## GENERAL

Construction	Galvanized steel chassis
Finish	Silver
Operating Temperature	
Desktop/Wall Mounted	32° to 95°F (0° to 35°C) at unit air intake
Rack Mounted	32° to 104°F (0° to 40°C) at unit air intake
Relative Humidity	0 to 90%, noncondensing
Dimensions	8.31" D x 6.56" W x 1.08" H (21.11 x 16.66 x 2.75 cm)
Unit Weight	1.75 lb (0.77 kg)
Shipping Weight	4 lb (1.81 kg)

## FRONT PANEL INDICATORS/FUNCTIONS

Power and Alarm	1; blue (Pelco badge)
Video Status	4; green, red, orange
Rotary Switch	4; green, red, orange

## VIDEO CHARACTERISTICS

Video Standards	NTSC/PAL/EIA/CCIR composite
Video Output	4 BNC
Frequency Response	50 Hz to 6 MHz
Common Mode/Differential Mode Rejection	>60 dB
Video Output	1.2 Vp-p

## ELECTRICAL

Input Voltage	12 VDC
Input Current	0.5 A
Power Consumption	6 W
Wire Type	UTP (24 AWG minimum)
Wire Category	Cat5 or better
Wire Distance	
Cat 5	3,000 ft (914 m)
Cat 5e 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
RJ-45	UTP input
2-Pin	Power
4-Pin	Rack power

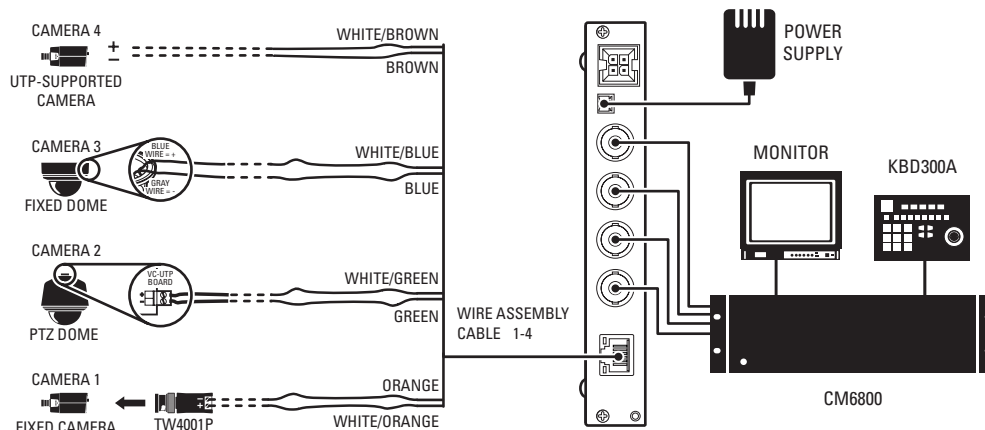
## CERTIFICATIONS

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

\*As of the date of this publication, these certifications are pending. Please consult the factory, our Web site at [www.pelco.com](http://www.pelco.com), or the most recent B.O.S.S.® update for the current status of certifications.

## OPTIONAL ACCESSORIES

RK5100PS-5U	Rack mount
RK5001B-4U	Single-width blank module
EPS5000-300	External rack mountable power supply; dual 300 W power supplies
WM5001-4U	Wall mount base kit without power supply
WM5001-4UEXP	Wall mount expansion kit



### IMPORTANT NOTE: PLEASE READ.

The network implementation is shown as a general representation only and is not intended to show a detailed network topology. Your actual network will differ, requiring changes or perhaps additional network equipment to accommodate the system as illustrated. Please contact your local Pelco Representative to discuss your specific requirements.

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