



TW3004P Four-Channel Video Transceiver

PASSIVE VIDEO TRANSMISSION OVER UNSHIELDED TWISTED PAIR

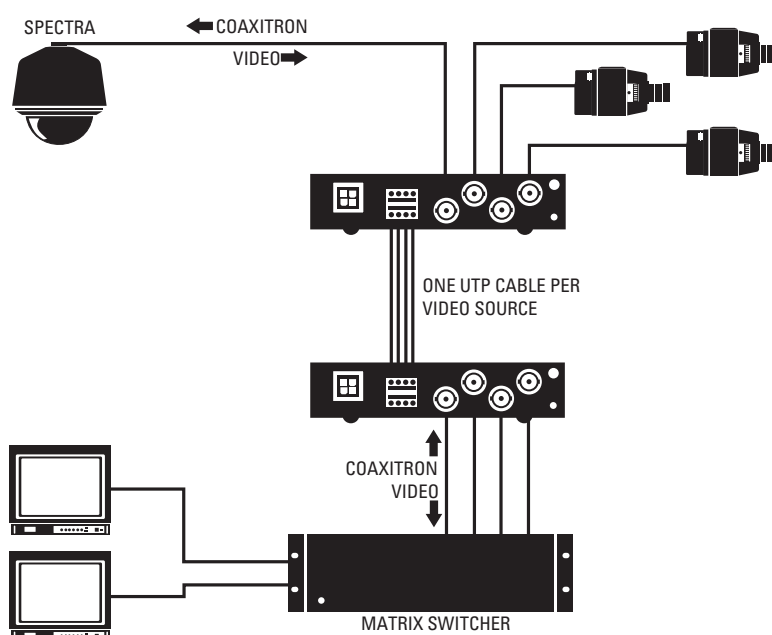
Product Features

- No Power Required for Applications
- Built-In Surge Suppression
- Full Motion Color/Black-White Video Up to 750 Feet (228.6 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
- Easy Termination with Terminal Block
- Supports NTSC, PAL, and SECAM
- Can Be Mounted Into a Pelco Fiber Rack
- Pelco Badge Illuminates When Mounted Into a Fiber Rack



The **TW3004P** is a 4-channel passive video transceiver that can transmit multiple video signals over unshielded twisted pair (UTP) cable. Although the transceiver is passive and requires no power, the Pelco badge on the front of the unit illuminates when inserted into a fiber rack (RK5000PS-3U/RK5000-3U). Each transceiver has four rubber feet allowing you to place it on a flat surface, such as a desk or shelf.

The transceiver can be used at the camera and/or monitoring location. It allows for easy connectivity with any video source or destination device, such as cameras, monitors, and matrix switchers. This multichannel transceiver will transmit video (color/black and white) and Coaxitron® (up-the-coax) PTZ control signals on the same pair of UTP wires.



C1665 / REVISED 1-07



International Standards
Organization Registered Firm,
ISO 9001 Quality System



TECHNICAL SPECIFICATIONS

MODELS

TW3004P Passive, 4-channel video transceiver

ELECTRICAL

Power Source 12 VDC (for Pelco badge only)
Wire Type Unshielded twisted pair (24 AWG maximum)
Wire Category Cat3 or better
Wire Impedance 100 ohms \pm 20%
Wire Distance 750 feet (228.6 meters) maximum using Cat5e or Cat6

Cable Type	Distance (with Coaxitron)	Distance (video only)
Cat3	300 ft (91.44 m)	400 ft (121.92 m)
Cat5	500 ft (152.40 m)	650 ft (198.12 m)
Cat5e	750 ft (228.60 m)	750 ft (228.60 m)
Cat6	750 ft (228.60 m)	750 ft (228.60 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 <1 dB; over; 0-8 MHz frequency range

VIDEO CHARACTERISTICS

Video Input/Output 1 BNC; internally terminated in 75 ohms
Format NTSC, PAL, SECAM
Frequency Response DC to 10 MHz
Common Mode/Differential Mode Rejection >60 dB typical

MECHANICAL

Connectors
BNC Video input/output
8-Pin Terminal Block UTP input/output
4-Pin Connector Rack power for Pelco badge

GENERAL

Construction Steel
Finish
Front Panel Gray metallic with black end caps
Chassis Black matte finish
Operating Temperature -40° to 185°F (-40° to 85°C)
Relative Humidity 0 to 90%, noncondensing
Data Transmission Supports Coaxitron up to 750 feet (228.6 meters)
Dimensions 8.75" D x 1.08" W x 4.81" H (22.23 x 2.74 x 12.22 cm)
Unit Weight 1.46 lb (0.66 kg)
Shipping Weight 3 lb (1.36 kg)

CERTIFICATIONS

- CE
- UL Listed
- UL Listed to Canadian safety standards

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)
RK5001B-3U Blank filler panel, single width, for rack mount



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