TW4001P Single-Channel Video Transceiver

PASSIVE VIDEO TRANSMISSION OVER UNSHIELDED TWISTED PAIR

Product Features

- No Power Required
- 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 Screw Terminals
- Supports NTSC, PAL, and SECAM
- Designed for Multi-Pair Applications to Reduce Cross-Talk Between Twisted Pairs

The **TW4001P** video transceiver is a single-channel balun that sends full-motion video (color/black-white) and Coaxitron® PTZ control signals over a single, unshielded twisted pair (UTP) cable. Its passive design eliminates the need for external power.

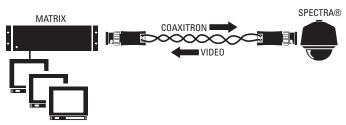


TW4001P

The balun is less than two inches (5.08 cm) long and has a BNC connector on one end and screw terminals on the other end. It can be used at the camera and monitoring locations.



TW4001P AS TRANSMITTER AND RECEIVER



VIDEO AND COAXITRON PTZ CONTROL OVER UTP



TW4001P AS RECEIVER CONNECTED TO OTHER UTP SOURCES

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.



TECHNICAL SPECIFICATIONS

MODEL

TW4001P Passive, single-channel video transceiver

ELECTRICAL/VIDEO

Power Source No power required

Wire Type Unshielded Twisted Pair (24 AWG maximum)

Wire Category Cat3 or better
Wire Impedance 100 ohms +/- 20%

Wire Distance 750 ft (228.6 m) 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 ft (304.8 m)

Differential Capacitance 19pF/ft max

Transient Immunity Meets EN50130-4 Clause 9, 10, 12, and 13

Insertion Loss 0.3 dB

VIDEO CHARACTERISTICS

Video Input/Output One 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
Screw Terminal UTP input/output

GENERAL

Construction ABS plastic and metal

Finish Black

Operating Temperature -40° to 185°F (-40° to 85°C)
Relative Humidity 0 to 90%, noncondensing
Data Transmission Supports Coaxitron up to

750 ft (228.6 m)

Dimensions 0.56" D x 0.60" W x 1.78" H

(1.42 x 1.52 x 4.52 cm)

 Unit Weight
 0.05 lb (0.02 kg)

 Shipping Weight
 1 lb (0.45 kg)

CERTIFICATIONS

CE

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