

INSTALLATION MANUAL

Passive Multichannel Video Transceivers



Important Safety Instructions

1. Read these instructions thoroughly before use or installation.
2. Keep these instructions handy for future reference.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water or in a high moisture environment.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Only use attachments/accessories specified by the manufacturer.
9. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
10. Installation should be done only by qualified personnel and conform to all local codes.
11. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6, or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
12. Use only installation methods and materials capable of supporting the specified load.

Note: Only use replacement parts recommended by manufacturer.

Description

The UTP8 and UTP16 Series multichannel video transceivers can transmit multiple video signals over unshielded twisted pair (UTP) cable. The receivers are passive and require no power.

The transceivers are available with 8, or 16 channels and can be used as a desktop (UTP8) or rack mountable (UTP16) in an industry standard 19-inch (48.26 cm) wide, 1RU equipment rack.

The transceivers can be used at the camera and/or monitoring location. They allow for easy connectivity with any video source or destination device, such as cameras, monitors, and matrix switchers. These multichannel transceivers will transmit video (color/black-white) on the same twisted pair of UTP wires.

MODELS

UTP-8C 8-channel passive video transceiver

UTP-16C Same as UTP8, except 16 channels

APPLICATION

Measure Your Wire Distance: All quoted distance specifications include any coax in the total cable run. It is recommended that the wire distance be measured to ensure that the capability of the UTP product is achieved.

Customers concerned with highest quality may wish to de-rate, going no more than 750 feet for standard (330 line) cameras, 600 feet for high-resolution (480 line) cameras, or 500 feet for very high resolution (525 line) cameras. Above these distances, use amplified receivers for zero-loss compensated performance.

Table A: shows the distance in feet with video only when using a particular type of cable.

Cabel Type	Distance B/W	Distance Color
CAT3	300ft	200ft
CAT5	500ft	400ft
CAT5e	750ft	500ft
CAT6	1000ft	800ft

Table B: shows the maximum allowable wire gauge for single wire and stranded wire.

Wire Gauge (maximum allowable)

Single Wire (solid)	24 AWG (1.5 mm ²)
Stranded Wire (flexible)	24 AWG (1.0 mm ²)

NOTE: DO NOT remove any more twists to make the connection in the cable than necessary as this will introduce more noise. CAT 5e cable is recommended for optimum video performance.

Always observe polarity, connect (+) to (+) and (-) to (-).

Connecting the Camera to the Receiver

1. Using a UTP module connect the BNC end to the camera and the twisted pair to the screw-on terminals observing polarity.
2. Connect the other end of the wire to the input of the receiver by attaching each conductor of a twisted pair of wires to each screw terminal observing polarit

Traditional CCTV

Passive to Passive Application Typical Application

