TwistPlex
UTP Product Line

UTP-1500
Passive Transmitter / Reciever
Operation Manual

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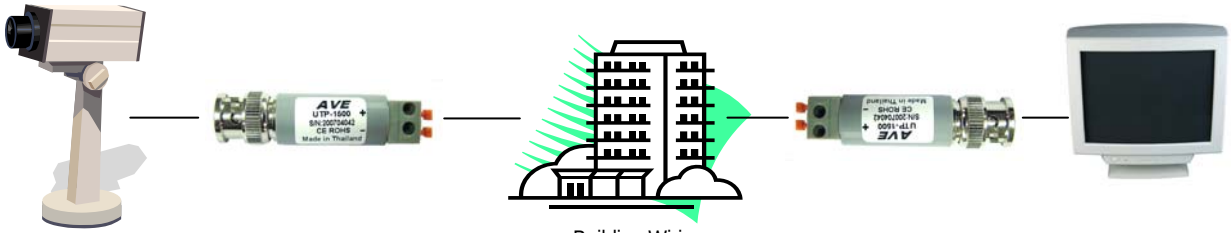
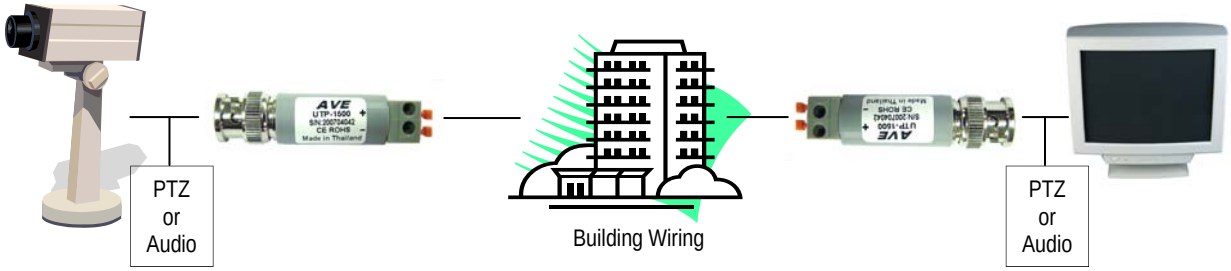
AVE UTP-1500 Passive Transmitter / Receiver

The AVE UTP-1500 Video Adapter is a passive device which allows for the transmission of video, audio and Pan / Tilt / Zoom (PTZ) or other modulated embedded bi-directional control signals over Unshielded Twisted Pair (UTP) cable. It will allow the signal to travel up to 3000 feet (900 meters) in B/W and 2000 feet (600 meters) in full color using **CAT5** Cable. This simple to install device requires no tools, just push and hold the locking buttons and insert the wire and release.



Basic Connection



PTZ or Audio Connection

The AVE UTP-1500 module can be used as either a transmitter or receiver but is polarity sensitive. However reversing the wiring causes no ill effects to the device so if the picture is distorted just reverse the wires.

Multiple Cameras

When using multiple cameras use separate UTP-1500s for each camera or the AVE hubs for simple structured wiring. These simple 4, 8, 16 camera hubs allow you to use one CAT5 cable with an RJ45 connector to bring 4 cameras back to one connector. The hubs have the passive recievers internal and BNC connectors that connect directly to your DVR. The hubs are available in active also so you can mix and match any of the AVE UTP line to provide the results you desire.

There are many types of lesser quality cabling currently wired in buildings and available in the market today. However some wiring is not even “Catagorized” but usually falls with the specifications of the following catagories and will deminish the specifications of the UTP-1500. However no matter what cable you are using the UTP-1500 will transmit B/W signals 2000 ft (600 meters) and 1500 ft (450 meters) in full color.

Cat 1: Currently unrecognized by TIA/EIA. Previously used for POTS telephone communications, ISDN and doorbell wiring.

Cat 2: Currently unrecognized by TIA/EIA. Previously was frequently used on 4 Mbit/s token ring networks.

Cat 3: Currently defined in TIA/EIA-568-B, used for data networks using frequencies up to 16 MHz. Historically popular for 10 Mbit/s Ethernet networks.

Cat 4: Currently unrecognized by TIA/EIA. Provided performance of up to 20 MHz, and was frequently used on 16 Mbit/s token ring networks.

Other Specification Degrading Problems

All the above specifications are based on straight wire runs. However in many buildings wires are spliced together in junction boxes in the walls within the building. Every junction will degrade the signal in some way or another but when inside a building is usually negligible unless excessive. However splices that are done that are exposed to the outside weather conditions or in a corrosive environment will degrade the signal significantly.

Solutions

In some installations where the video quality needs to be improved use the AVE line of active transmitters and receivers. If additional power is available at the camera end the AVE VECA UTP will pre-compensate for the long run deliverying a more powerful signal to the passive receiver improving the quality. However for an easier fix you might just add the AVE Active Receiver in place of the passive receiver to improve the quality on the receiving end. To obtain an overall higher quality signal and or transmit further add the AVE VECA and AVE Active Receiver in place of the passive models.

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