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KTS-270

UTP Passive Transceiver

Overview

The KTS-270 is a single-channel passive transceiver that is part of GE Security's new, integrated CCTV UTP (unshielded twisted pair) system. Designed to expand the capabilities of the CyberDome® product line, this passive transceiver is able to both transmit and receive real time color or monochrome video up to 1,000 feet over standard UTP telephone wire. Maximum recommended distance for passive to passive devices is 750 feet when used with digital recorders. Transmitting over UTP wire, rather than over traditional video cable, provides a reliable, high quality, flexible and expandable system that uses less conduit space, and can be built into existing wiring topologies.

This single input transceiver was designed with unparalleled interference immunity, allowing video signals to coexist in the same wire bundle as telephone, datacom signals, and low voltage power circuits with no degradation in video quality. Video signals are sent without the need to digitize or compress, and without the signal degradation associated with these techniques.

Outstanding Features

The KTS-270 provides built-in transient protection and surge suppression. The ability to transmit over UTP wire means that the KTS-270 can be utilized in both new and existing installations.

The KTS-270 passive transceiver has been designed to work with other GE Security transceiver and receiver components as a system, and are guaranteed to function only when paired with GE Security and NVT (Network Video Technologies) compatible products.



Standard Features

- **Real-time video over unshielded twisted-pair wire**
- **Receive or transmit up to 1,000 feet**
- **One video input or output**
- **Color or monochrome video**
- **No power required**
- **Interference immunity**
- **Built-in transient protection**
- **Compatible with NTSC, PAL, and SECAM**



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Specifications

Video

- Frequency response: DC to 5 MHz
- Adjustable distance equalization: Brightness and Contrast control
- Common-mode/differential-mode rejection: 15 KHz to 5 MHz; 60 dB typical
- Impedance: Coax, female BNC—75 ohms; UTP, Terminal Block—100 ohms

Wire Type

- Network wiring: One UTP per port channel
- Wire gauge: 24 AWG or thicker
- Category type: 2, 3, 4, 5 or better
- Impedance: 100 ± 20 ohms
- DC loop resistance: 52 ohms per 1,000 ft
- Differential capacitance: 19 pF/ft max
- Wire length (camera to monitor): Up to 1,000 ft (w/coax)
- Coax cable impedance: 75 ohms

Power

- No external power required

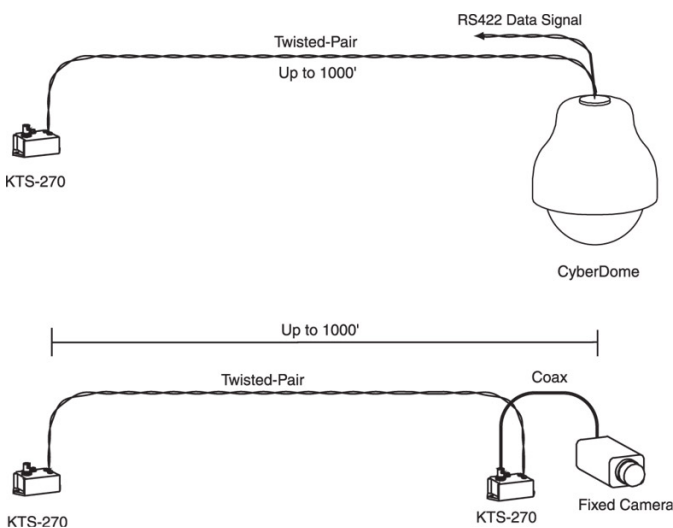
Environmental

- Temperature: 32° to 122° F (0° to 50° C)
- Humidity (non-condensing): 0 to 95 percent
- Transient immunity: 6,000 V 1.2 μ S x 50 μ S (per ANSI/IEEE 587 C62.41 B3 3,000 A 8 μ S X 20 μ S when ground screw is bonded to earth ground)

Mechanical

- Dimensions (excluding connectors): 3 in x 1.54 in x 1.1 in (76 mm x 39 mm x 28 mm)
- Weight: 4.0 oz (100 g)
- Material: Black ABS
- Mounting: Two 0.175 in (4.4 mm) diameter holes, 2.5 in (63.5 mm) apart

Related Diagram



Ordering Information

KTS-270



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