

## 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 video product line, this passive transceiver is able to both transmit and receive real time color or monochrome video up to 750 feet over standard UTP telephone wire. 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.

The single input transceiver was designed with unparalleled interference immunity, allowing video signals to coexist in the same wire bundles 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 video up to 750 feet
- 1 video input or output
- No power required
- Interference immunity
- Built-in transient protection
- Compatible with EIA/NTSC, CCIR/PAL, and SECAM

# UTP Passive Transceiver

KTS-270



# GE Security

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## Specifications

Video	
Frequency Response	DC to 5 MHz
Adjustable distance equalization	N/A
Common-mode/differential-mode rejection	15 KHz to 5 MHz; 60 dB typical
Impedance	Coax, female BNC (75 ohms), UTP, Screw Terminals (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 750 ft (w/coax)
Coax cable impedance	75 ohms
Power	
No external power required	

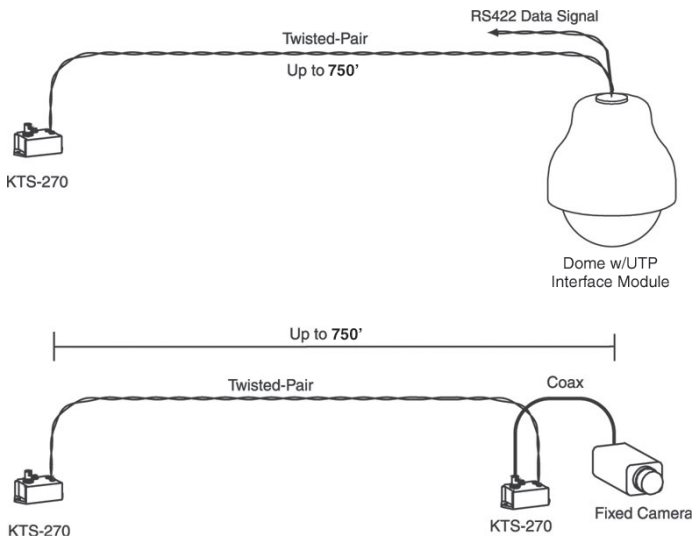
Environmental	
Temperature	32° to 122° F (0° to 50° C)
Humidity (non-condensing)	0 to 95 percent
Transient Immunity	6,000 V 1.2µs x 50 µs (per ANSI/IEEE 587 C62.41)
Mechanical	
Dimensions (excluding connectors)	3 in x 1.54 in x 1.1 in (76 mm x 39 mm x 28 mm)
Weight	4.0 oz (100 g)
Material	Black ABS
Mounting	Two 0.175 in (4.4 mm) diameter holes, 2.5 in (63.5 mm) apart

### AGENCY COMPLIANCE

FCC PART 15 COMPLIANT CE c UL US Pb

Assembled in USA or PRC

## Related Diagram



## Ordering Information

**KTS-270**

As a company of innovation, GE Security reserves the right to change product specifications without notice. For the latest product specifications, visit GESecurity online at www.GESecurity.com or contact your GE Security sales representative.  
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