

Transmit Real-Time Video Over Standard Telephone Wire



The KTS-273-16 is a 16-channel active receiver that is part of GE Interlogix's new, integrated CCTV UTP (unshielded twisted-pair) system. Designed to expand the capabilities of the CyberDome™ and traditional camera product lines, this active receiver is able to receive real-time color or monochrome video up to 3,000 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.

This 16-input receiver was designed with unparalleled interference immunity, allowing video signals to co-exist in the same wire bundle as telephone, datacom signals, and low-voltage power circuits. There is 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.

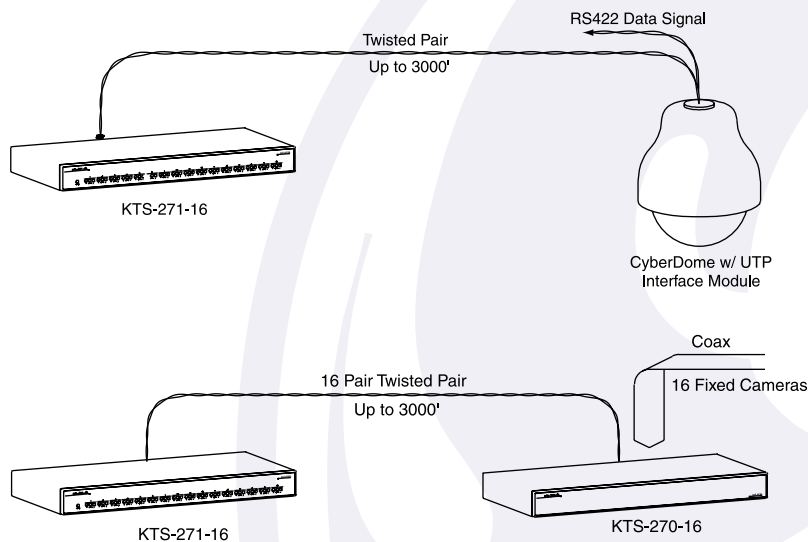
The KTS-273-16 provides built-in transient protection and surge suppression. The ability to transmit over UTP wire means that the KTS-273-16

Features

- Real-time video over unshielded twisted-pair
- Receive video up to 3,000 feet
- 16 video inputs
- Interference immunity
- Built-in transient protection
- Compatible with NTSC, PAL, and SECAM
- Rack-mountable

can be utilized in both new and existing installations. The unit is housed in an attractive rack-mount enclosure using only one unit of rack space.

The KTS-273-16 active receiver has been designed to work with other GE Interlogix transceiver and receiver components as a system, and is guaranteed to function only when paired with GE Interlogix and Network Video Technologies (NVT) compatible products.



System Diagram

GE Interlogix's line of CyberDome cameras comes with an optional twisted-pair module (a passive transceiver) embedded as a part of the camera. Up to 16 CyberDomes can then be paired with a KTS-273-16 active receiver on the monitor end for the ability to transmit video up to 3,000 feet over twisted-pair wire.



GE Interlogix

Product
Specification

Technical 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 typ
Impedance:	
Coax, female BNC	75 Ω
UTP, Terminal Block	100 Ω

LED Indicators

Blue	"Power On"
Green	"Active" video present

Wire Type

Network Wiring:	(1) UTP per port channel
Wire Gauge:	24 AWG or thicker
Category Type:	2, 3, 4, 5 or better
Impedance:	100 ± 20 Ω
DC Loop Resistance:	52 Ω per 1,000 ft
Differential Capacitance:	19 pF/ft max
Wire Length (camera to monitor):	Up to 3,000 ft (w/coax)
Coax Cable Impedance:	75 Ω

Power

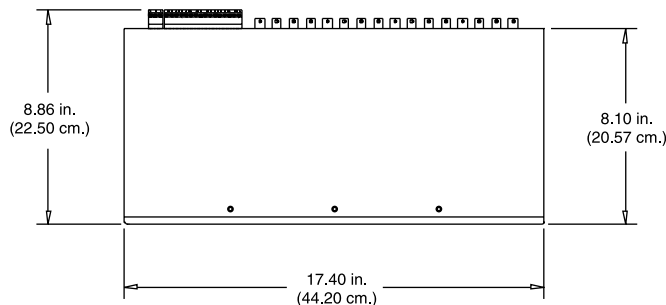
KTS-273-16 (transformer & terminal block included)	
24 VAC/DC	800 mA max
Voltage Switch: 115/230 VAC Selectable	

Environmental

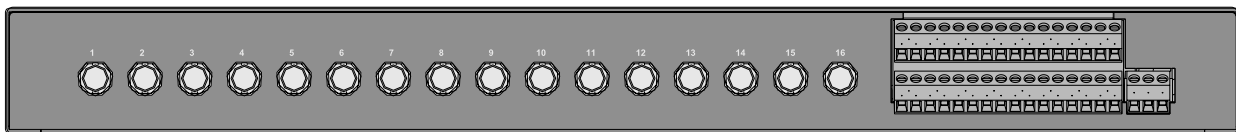
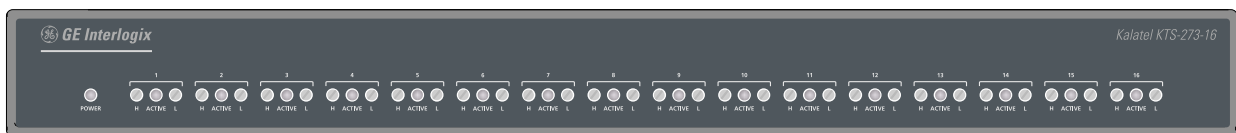
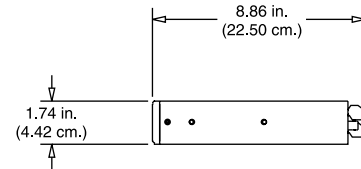
Temperature:	0 to +50° C
Humidity (non-condensing):	0 to 95 percent
Transient Immunity:	6,000 V 1.2μS x 50 μS per ANSI/IEEE 587 C62.41 B3 3,000 A 8μS X 20 μS when ground screw is bonded to earth ground

Mechanical

Dimensions (excluding brackets and connector):	17.00 x 1.75 x 8.125 in (43.0 x 4.5 x 20 cm)
Weight:	5 lb (2.2 kg)
Mounting:	"L" brackets, rack mount



KTS-273-16 Dimensions



GE Interlogix

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