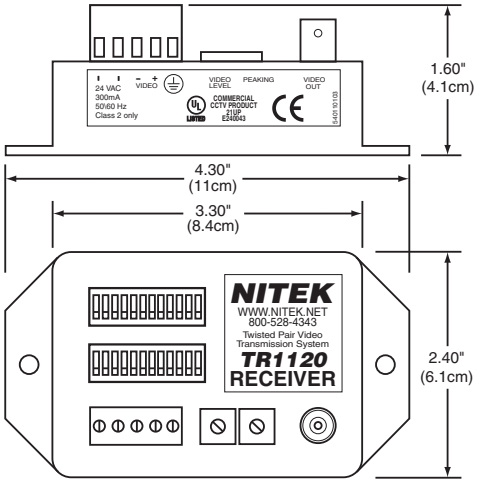
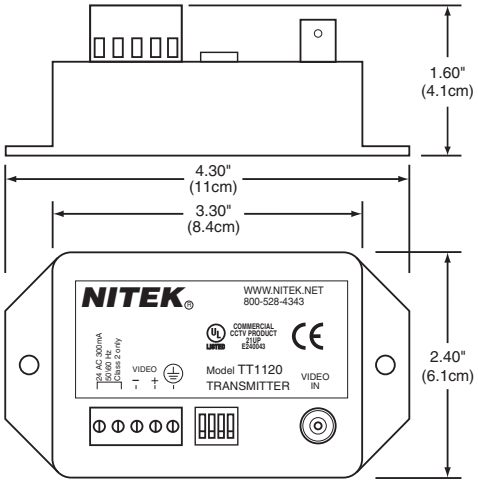
EX1120 Twisted Pair Video Transmission System

04/14/09

PRODUCT SPECIFICATION





Description

The **EX1120** is a complete twisted pair video system made up of a TR1120 receiver unit and a TT1120 transmitter unit. The system is designed to operate over Category wire or twisted pair communication cable. It works well over existing communication cables or computer network spare pairs. A highly balanced transmitter output assures that the system will not interfere with other network equipment. Advanced receiver and transmitter electronics provide optimum video quality and complete immunity from ground loop, hum and noise. Both the transmitter and receiver provide adjustment for gain and frequency compensation allowing the system to be "fine-tuned" for the cable. These unique adjustments provide optimum performance over the entire operating range of the system and allow cable lengths to be estimated with a wide safety margin. The receiver and transmitter units each require 24 VAC power. In multiple receiver and/or transmitter applications a common supply can be used for the system.

Features

- Active electronics compensate for frequency and level loss providing the highest quality video
- Built-in protection from power surges, transients, static or other electrical interference
- High resolution color or monochrome video
- Immunity to ground loop; video and AC can be run in a common raceway, where code allows
- Video can be run in the same cable with telephone and computer signals
- Weather resistant design
- Easy to install

UL LISTED CE RoHS COMPLIANT 2002/95/EC

NITEK®

USA
5410 Newport Drive, # 24
Rolling Meadows, IL 60008
Phone: (847) 259-8900
Fax: (847) 259-1300
E-mail: info@nitek.net
WWW.NITEK.NET

EUROPE
De Schans 19-21 2a
8231 KA Lelystad
Tel: +31(0)320-2300005
Fax: +31(0)320-282186
E-mail: info@nitek.nl
WWW.NITEK.NL

TECHNICAL SPECIFICATION

Transmitter Unit

Size	1.8” H x 4.3” W x 2.4” D
Power Requirements	24 VAC @ 2 watts (2VA)
Input	1 Vpp composite video Monochrome or Color
Output	Balanced low voltage current loop

System

Video Format	PAL, SECAM, NTSC, RS170, CCIR (Color or B/W)
Operating Frequency	1 Hz to 10 MHz
Recommended Transmission Distances for DVR Recording	**Monochrome—1,000 to 12,000 ft.** **Color—1,000 to 9,000 ft.**
Wire Size	26 to 18 AWG Unshielded Twisted Pair (UTP)
DC Loop Resistance	51 Ohms/1,000 feet (max)
Nominal Capacitance	17pF/ft
Impedance	100 Ohms +/- 20%
UTP Category	2 or better
Temperature Range	-40°C to +65°C
Humidity Range	0 to 98%, non-condensing
Enclosure Material	Black, ABC flame retardant plastic
Shipping Weight	3 lbs (both units)

Receiver Unit

Size	1.8” H x 4.3” W x 2.4” D
Power Requirements	24 VAC @ 2 watts (2VA)
Input	Balanced low voltage current loop
Output	1 Vpp composite video Monochrome or Color
Common Mode Rejection	70dB+

Wire and Cable Recommendations

We recommend using unshielded twisted pair wiring. The systems will operate over wire 26 to 18 AWG but are optimized for 24 AWG. Category cables may be used. Individually shielded pairs should be avoided, as they drastically reduce the operating range of the systems. Multi-pair cable with an overall shield is acceptable. Video can be operated in the same communication cable coexistent with telephone, computer, control signals, power voltages and other video signals. While video may be routed through telephone punch down block terminals, any bridge-taps, also called T-taps and any resistive, capacitive or inductive devices MUST BE removed from the pair.