

# PRODUCT SPECIFICATION

DOCUMENT NUMBER <b>EX1120RR</b>	MODEL <b>EX1120RR</b> Unshielded Twisted Pair (UTP) transmission 1,000 feet (304m) to 12,000 feet (3.65Km)
REVISION NUMBER <b>052103</b>	<b>Unit for Modular Twisted Pair Video System</b>

**EX1120RR**



### Description

The EX1120RR is a single channel unshielded twisted pair (UTP), long range transmission system designed for use with the Modular Rack System. The Modular Rack System holds up to ten (10) modular cards, in any combination, using the Modular Card Cage (not included). Cards may be inserted in various combinations of video and data cards. This plug-in feature allows the system to be custom configured for each application and provides ability for future expansion.

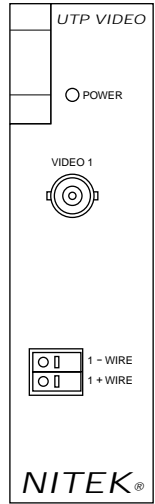
The EX1120RR is a complete system comprised of a TR1120RR Modular Receiver and a TT1120 Standard Transmitter unit. The system is designed for operation over category unshielded twisted pair cabling. It can also adapt to existing communication, computer network spare pairs or new cable installations. 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 units provide adjustments for gain and frequency compensation, allowing each system to be "fine-tuned" to the cable. These unique adjustments provide optimum performance over the entire operation of the system.

### Features

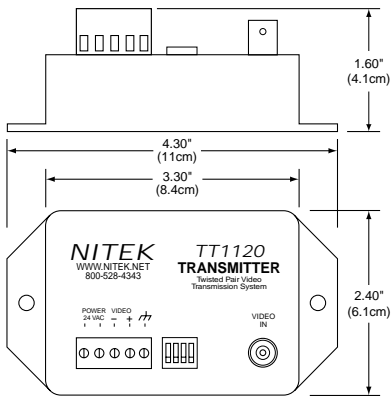
- Active electronics compensate for frequency and level losses over the length of the cable
- High resolution color or monochrome video communication signals
- High common mode rejection and noise immunity
- Built-in protection from power surges and transients, static and electrical interference
- Video can share the same cable with telephone, control and data signals
- Easy to install and configure

### Applications

- Large Campus Installations
- Shopping Malls
- Airports
- High Voltage Facilities
- Traffic & Security Around City Areas
- Remote Gates



Receiver Card



Transmitter

# TECHNICAL SPECIFICATION

## Transmitter Unit

Size	1.6"(4.1cm)H x 4.3"(11cm)W x 2.4"(6.1cm)D
Power Requirements	24 VAC @2 watts (2 VA)
Input	1 vpp composite video monochrome or color
Output	Balanced low voltage current loop

## System

Video Format	RS170, NTSC, PAL, SECAM, CCIR (Color or B/W)
Video Input	1 vpp composite video monochrome or color
Operating Frequency	1 MHz to 10 MHz

<b>Recommended Transmission Distances</b>	<b>Monochrome</b> - 1,000 ft. (304 m) to 12,000 ft. (3.65 Km) <b>Color</b> - 1,000 ft. (304 m) to 9,000 ft. (2.74 Km)
---	--

UTP Category	Category UTP Cabling
Temperature Range	-40 degrees C to +85 degrees C
Humidity Range	0 to 98%, non-condensing
Enclosure Material	ABS Plastic

## Receiver Unit

Size	1 card slot
Power Requirements	Card powered by Modular Rack
Input	Balanced low voltage current loop
Output	1 vpp composite video monochrome or color
Common Mode Rejection	70dB+

## Ordering Information

PART	DESCRIPTION
<b>EX1120RR</b>	Applications of 1,000 ft (304m) to 12,000 ft (3.65Km)
<b>RK400</b>	Modular Rack Cabinet with power supply

## Wire and Cable Recommendations

Twisted Sender systems are recommended for use with **unshielded twisted pair** (UTP) wiring. The systems will operate over wire gauges from 26 AWG through 12 AWG but are optimized for 24 AWG. Category cabling may be used. Individually shielded pairs should be avoided, as they drastically reduce the operating range of the systems. Multi-pair cable (>15 pairs) 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. For more specific information regarding wire types, gauges and proper installation techniques, please call 800-528-4343 for technical assistance. More information is also available on the CCTV System Design Guide Sheet.

