



## Description

The **TR515x8** is designed for use with the modular rack system. The system holds modular cards in any combination using the VH3200 card cage (sold separately). This modular “plug-in” feature allows the system to be custom configured for each application and provides easy expandability.

The TR515x8 is designed for operation over Category twisted pair cable. The system works equally well over existing communication and computer network spare pairs or new cable installations. A highly balanced transmitter output design assures that the system will not interfere with other equipment on the network. Advanced receiver electronics provide complete immunity from ground loop, hum and noise to produce maximum video quality with minimum loss. A dip switch on the receiver unit provides incremental adjustment of gain and frequency compensation to allow the system to be “fine-tuned” for an existing cable. This unique feature provides adjustment for optimum performance over the entire operating range and also allows cable length to be estimated with a wide safety margin.

## Features

- Active electronics compensate for frequency and level loss
- Built-in protection from power surge, transients, static or other electrical interference
- High resolution color or monochrome video
- Complete immunity to ground loop; video and AC can be run in a common raceway, where code allows
- Video detect LED's for each receiver



# NITEK®

USA

5410 Newport Drive, # 24  
Rolling Meadows, IL 60008  
Phone: (847) 259-8900  
Fax: (847) 259-1300  
E-mail: [info@nitek.net](mailto:info@nitek.net)  
[WWW.NITEK.NET](http://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](mailto:info@nitek.nl)  
[WWW.NITEK.NL](http://WWW.NITEK.NL)

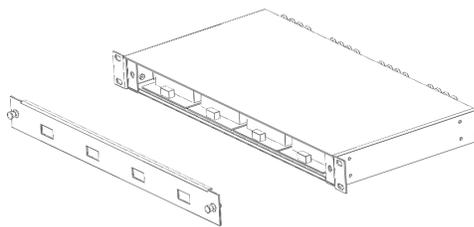
# TECHNICAL SPECIFICATION

## Receiver Unit (8 per card)

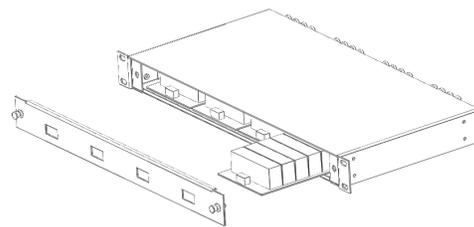
Size	1 card slot
Power Requirements	Card powered by VH3200 (sold separately)
Input	Balanced low voltage current loop
Output	1 Vpp composite video Monochrome or Color
Common Mode Rejection	>70dB
Video Format	PAL, SECAM, NTSC, RS170, CCIR (Color or B/W)
Operating Frequency	DC to 10 MHz
Wire Size	26 to 18 AWG twisted pair
DC Loop Resistance	51 Ohms/1,000 ft (max)
Nominal Capacitance	17pF/ft
Impedance	100 Ohms +/- 20%
Category Wire	2 or better
Temperature Range	-20°C to +65°C
Humidity Range	0 to 98%, non-condensing
Shipping Weight	1 lb

## 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.



Remove Front Panel



Install Cards