

Overview

The IFS VT/VR72430-R3 video transmitter and video receiver utilize state-of-the-art 8-bit digital encoding and decoding for high-quality video transmission that exceeds the requirements of EIA RS-250C for Medium-Haul Video Transmission. These environmentally hardened units provide transmission of twenty-four independent video channels over one single mode optical fiber and are ideal for use in unconditioned roadside or out-of-plant installations. Completely transparent to and universally compatible with any NTSC, PAL, or SECAM CCTV camera system. Plug-and-play design ensures ease of installation and no electrical or optical adjustments are ever required. LED indicators are provided for rapidly ascertaining equipment operating status, available in rack-mount configuration only.

24-Channel Digitally Encoded Video Multiplexer

Utilizing state-of-the-art 8-bit digital encoding and decoding for high-quality video transmission.



Standard Features

- 8-Bit Digitally Encoded Video Transmission Transmits 24 Real-Time Color Video Channels on One Single Mode Fiber
- Exceeds All Requirements for RS-250C Medium-Haul Transmission: Extremely High Video Performance
- Exceptionally Low Video Distortion with Zero Performance Variation vs. Optical Path Loss
- Ideally Suited to Networks Requiring Multiple Physical Layers where Video Degradation May be a Problem
- Tested and Certified by an Independent Testing Laboratory for Full Compliance with the Environmental Requirements (Ambient Operating Temperature, Mechanical Shock, Vibration, Humidity with Condensation, High-Line/Low-Line Voltage Conditions and Transient Voltage Protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- Directly Compatible with All NTSC, PAL, or SECAM CCTV Camera Systems
- Robust Design Ensures Extremely High Reliability In Unconditioned Out-of-Plant Environments
- LED Status Indicators Provide Rapid Indication of Critical Operating Parameters
- Solid-State Current Limiters on All Power Lines Provide Equipment Protection
- Includes R3 Rack
- Comprehensive Lifetime Warranty



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Specifications subject to change without notice

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Specifications

Video	
Video Input:	1 volt pk-pk (75 ohms)
Input/Output Channels:	24
Bandwidth:	10 Hz - 6.5 MHz
Differential Gain:	<2%
Differential Phase:	<0.7°
Tilt:	<1%
Signal-to-Noise Ratio (SNR):	60 dB @ Maximum Optical Loss Budget
Wavelength	
	1510/1530/1550 nm, Single Mode
Opticalemmitter	
	Laser Diode
Numberoffibers	
	1
Connectors	
Optical:	ST, SC or FC (see ordering information)
Video:	BNC (Gold Plated Center-Pin)
Electrical&Mechanical	
Power:	115/230 VAC
Number of Rack Slots:	10
Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Size (in./cm.) (LxWxH)	
Rack Mount:	19.0 x 7.0 x 5.3 in., 48.3 x 17.8 x 13.3 cm
Shipping Weight:	< 12 lbs./5.4 kg
Environmental	
MTBF:	> 100,000 hours
Operating Temp:	-40° C to +74° C
Storage Temp:	-40° C to +85° C
Relative Humidity:	0% to 95% (non-condensing)†

†May be extended to condensation conditions by adding suffix '-C' to model number for conformal coating.

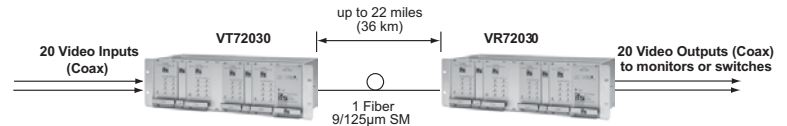
Agency compliance



Made in the USA

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

System Design



Ordering Information

	PartNumber	Description	FibersRequired	OpticalPwr.Budget	Max.Distance*
Single Mode 9/125µm	VT72430-R3 VR72430-R3	24 Channel Video Transmitter/Multiplexer 24 Channel Video Receiver/Demultiplexer	1	12 dB	22 miles (36 km)

Options
 Add '-C' to Model Number for Conformally Coated Printed Circuit Boards (Extra charge, consult factory)
 Add '-SC' to Model Number for SC Connector
 Add '-FC' to Model Number for FC Optical Connector

* Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels. Distance can also be limited by fiber bandwidth.

