

VT/VR1505 Series

IFS Video with One-Way “Up-The-Coax” Data



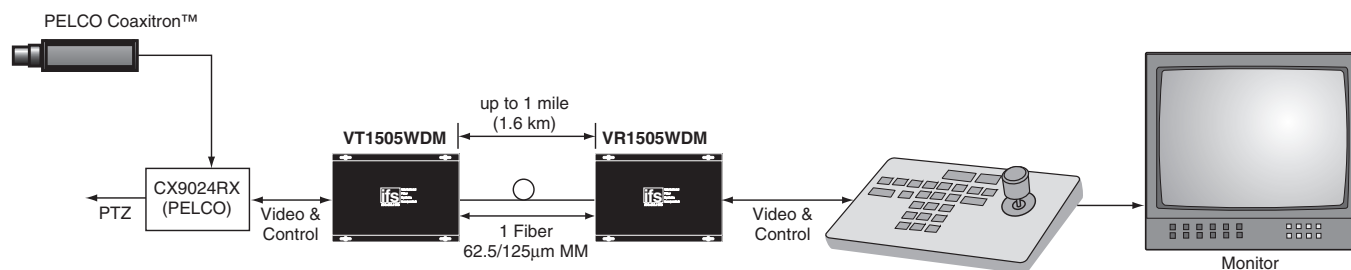
OVERVIEW

The IFS VT/VR1505 Series video and data transmission system is designed for full compatibility with ‘Up-the-Coax’ video/data systems from major manufactures such as Panasonic Proteus™, Pelco Coaxitron™, Robot, Vicon Vicoax™, Videolarm CoaxLynx™, Elbex, and others. The module supports the simultaneous transmission of video and “Up-the-Coax” one-way data over one or two multimode optical fibers. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. The modules incorporate power and AGC status indicating LED’s to monitor proper system operation. The modules are available in either stand-alone or rack mount versions.

APPLICATION EXAMPLES

- Panasonic Proteus™
- Pelco Coaxitron™
- Robot
- Vicon Vicoax™
- Videolarm CoaxLynx™
- Elbex

SYSTEM DESIGN



STANDARD FEATURES

- Transmission of Video and ‘Up-the-Coax’ One-Way Data
- NTSC, PAL, SECAM Compatible
- Full Color Compatibility
- Full Range Automatic Gain Control (AGC)
- No In-field Electrical or Optical Adjustments Required
- Power and AGC Status Indicating LED’s to Monitor System Performance
- Integrated WDM for Greater Product Reliability
- Hot-Swappable Rack Modules
- Automatic Resettable Fuses on all Power Lines
- Distances up to 1 mile (1.6 km) – Limited by the Manufacturer’s “Up-the-Coax” Specifications on Copper Wire.
- Available in FiberPak™
- Lifetime Warranty

VT/VR1505 Series

North America T 855-286-8889 Latin America T 561-998-6114

IFS Video with One-Way “Up-The-Coax” Data

Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	VT1505	Video Transmitter/Data Receiver (850 nm)	2	14 dB	1 miles (1.6 km)
	VR1505	Video Receiver/Data Transmitter (850 nm)	2	14 dB	1 miles (1.6 km)
	VT1505WDM	Video Transmitter/Data Receiver (850/1310 nm)	1	14 dB	1 miles (1.6 km)
	VR1505WDM	Video Receiver/Data Transmitter (1310/850 nm)	1	14 dB	1 miles (1.6 km)
Single-Mode 9/125µm	VT1535WDM	Video Transmitter/Data Receiver (1310/1550 nm)	1	14 dB	1 miles (1.6 km)
	VR1535WDM	Video Receiver/Data Transmitter (1550/1310 nm)	1	14 dB	1 miles (1.6 km)
Options	PS12VDC1.5A-U	12VDC, 1.5A Plug-in Power supply (110/220VAC) with Universal power plug adapter kit (Included)			
	PS -24	for 24 VAC C.T. Power (Included for VT)			
	Add '-R3' to Model Number for R3 Rack Mount - No Charge (Requires R3 Rack purchased separately)				

*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. **For 50/125 Fiber, subtract 4 dB from Optical Power Budget.

Specifications

Video

Video Input/Output:	1 volt pk-pk (75 ohms)
Bandwidth:	5 Hz - 10 MHz
Differential Gain:	<5%
Differential Phase:	<5°
Tilt:	<1%
Signal-to-Noise Ratio (SNR):	>55 dB @ 10 dB ATTN.

Data

Data Interface:	Pelco Coaxitron™, Vicon Vicoax™, Panasonic Proteus™, Robot, Videolarm and Elbex
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Wavelength

	850 nm, Multimode
	850/1310 nm, Multimode

Number Of Fibers

VT/VR1505:	2
VT/VR1505WDM:	1

Connectors

Optical:	ST
Power:	Terminal Block with Screw Clamps
Video and Data:	BNC (Gold Plated Center-Pin)

Electrical & Mechanical

Power:	
Surface Mount:	VT: 24 VAC C.T. @ 200 mA VR: 12 VDC @ 200 mA
Rack:	From Rack
Number of Rack Slots:	1
Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Size (in./cm.) (LxWxH)	
Surface Mount:	7.0 x 4.9 x 1.0 in., 10.7 x 8.9 x 2.5 cm
Rack Mount:	7.7 x 5.0 x 1.0 in., 17.8 x 12.5 x 2.5 cm
Shipping Weight:	< 2 lbs./0.9 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)

Note: Coaxitron is a registered trademark of PELCO. Viacoax is a registered trademark of Vicon Industries, Inc. Proteus is a registered trademark of Panasonic, Inc.

Maximum distance for the Panasonic Proteus™ is 1.5 km.

Agency Compliance

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



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Specifications subject to change without notice.

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