



PRODUCT SPECIFICATION

VT/VR1505 SERIES

VIDEO WITH ONE-WAY "UP-THE-COAX" DATA



DESCRIPTION

The IFS VT/VR1505 series video and data transmission system is designed for full compatibility with 'Up-the-Coax' video/data systems from major manufacturers 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

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



Available at: www.ifs.com

- A & E Specifications, (CSI)
- AutoCAD Drawings
- Operation Manuals
- Technical Bulletins

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 mile (1.6 km)
	VR1505	Video Receiver/ Data Transmitter (850 nm)			
	VT1505WDM	Video Transmitter/ Data Receiver (850/1310 nm)	1	14 dB	1 mile (1.6 km)
	VR1505WDM	Video Receiver/ Data Transmitter (1310/850 nm)			
SINGLE-MODE 9/125µm	VT1535WDM	Video Transmitter/ Data Receiver (1310/1550 nm)	1	14 dB	1 mile (1.6 km)
	VR1535WDM	Video Receiver/ Data Transmitter (1550/1310 nm)			
OPTIONS	PS-12VDC 12 Volt DC Plug-in Power Supply (Included)				
	PS -24 for 24 VAC C.T. Power (Included for VT)				
	PS-12VDC-230 12 Volt DC Plug-in Power Supply, 230 VAC Input (Included if specified at time of order)				
	Add '-R3' to Model Number for R3 Rack Mount - No Charge (Requires R3 Rack purchased separately) Add '-C' for Conformally Coated Printed Circuit Boards (Extra charge, consult factory)				

* 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.

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TECHNICAL SPECIFICATION

VT/VR1505 SERIES

VIDEO WITH ONE-WAY "UP-THE-COAX" DATA

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

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
 Meets IPC Standard
 Circuit Board:
 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 Vicoax is a registered trademark of Vicon Industries, Inc. Proteus is a registered trademark of Panasonic, Inc.

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

• Maximum distance for the Panasonic Proteus™ is 1.5 km.

AGENCY COMPLIANCE

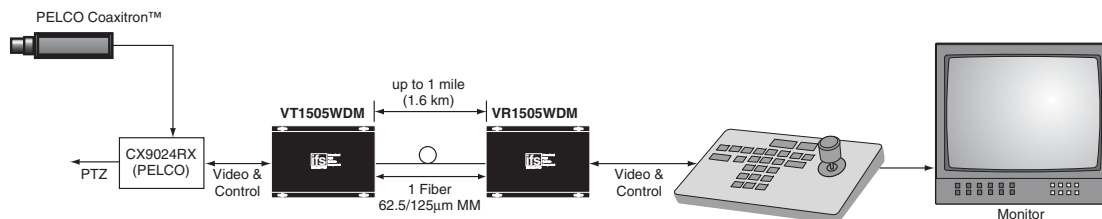
FCC PART 15 COMPLIANT    
MADE IN THE USA
 Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

OPTICAL POWER BUDGET

FIBER	WAVELENGTH	TRANSMITTER		RECEIVER		OPTICAL PWR BUDGET	MAX. DISTANCE*
		MODEL	OUTPUT	MODEL	SENSITIVITY		
Multimode 62.5/125µm**	850 nm	VT1505	25µw (-16 dBm)	VR1505	1 µw (-30 dBm)	14 dB	1 mile (1.6 km)
	850/1310 nm	VT1505WDM		VR1505WDM			
	1310/1550 nm	VT1535WDM		VR1535WDM			

* 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.

SYSTEM DESIGN



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Due to our continued effort to advance technology, product specifications are subject to change without notice.

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