

VDT/VDR1505WDM Series

IFS Digitally Encoded Video with One-Way “Up-the-Coax” Data



OVERVIEW

The IFS VDT/VDR1505WDM Series video and data transmissions system is designed for full compatibility with “Up-the-Coax” video/data systems from major manufacturers such as Panasonic Proteus™, Pelco Coaxitron™, Bosch Bi-Linx™, and others. The module supports simultaneous broadcast quality transmission of 10-bit digitally encoded video and “up the coax” data over one multimode or single mode fiber. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. The VDT/VDR1505WDM Series features an optional contact closure input that allows an additional device such as a dome tamper switch or alarm input to be added and its signal transmitted back to the monitoring location. This feature eliminates the need for installing additional wiring to support the alarm contact closure. The modules incorporate power, video and data status indicating LED's to monitor proper system operation. The modules are available in either stand-alone or rack mount versions.

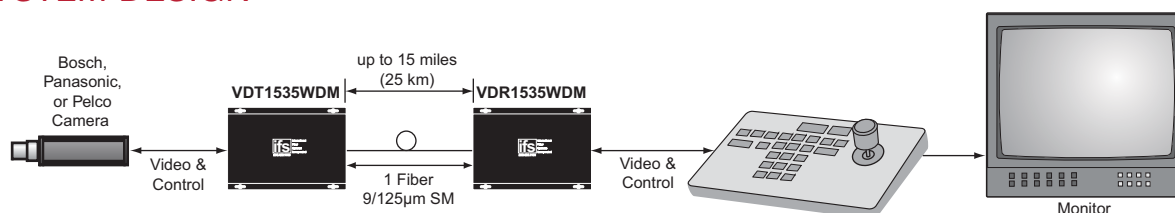
STANDARD FEATURES

- Transmission of Video and “Up-the-Coax” One-Way Data
- 10-Bit Digitally Encoded Video Transmission
- Exceeds RS-250CC Short-Haul Transmission
- Optional Bi-Directional Contact Closure
- NTSC, PAL, SECAM Compatible
- Full Color Compatibility
- No In-field Electrical or Optical Adjustments Required
- Power, Video and PTZ Data 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 15 miles (25 km)
- Comprehensive Lifetime Warranty

APPLICATION EXAMPLES

- Panasonic Proteus™
- Pelco Coaxitron™
- Bosch Bi-Linx™ (Add “-B” for Bosch Bi-Linx™ Compatibility)

SYSTEM DESIGN



VDT/VDR1505WDM Series

North America
T 855-286-8889

Latin America
T 561-998-6114

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Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	VDT1505WDM	Video Transmitter/Data Receiver (1310/1550 nm)	1	15 dB	3.0 miles (5 km)
	VDR1505WDM	Video Receiver/Data Transmitter (1550/1310 nm)	1	15 dB	3.0 miles (5 km)
Single Mode 9/125µm	VDT1535WDM	Video Transmitter/Data Receiver (1310/1550 nm)	1	15 dB	15 miles (25 km)
	VDR1535WDM	Video Receiver/Data Transmitter (1550/1310 nm)	1	15 dB	15 miles (25 km)
Accessories	PS12VDC1.5A-U	12VDC, 1.5A Plug-in Power supply (110/220VAC) with Universal power plug adapter kit (Included)			
Options	Add '-R3' to Model Number for R3 Rack Mount - No Charge (Requires R3 Rack purchased separately)				
	Add '-B' for Bosch Bi-Linx™ Compatibility				

*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. All accessories are third party manufactured.

Specifications

Video

Video Input/Output:	1 volt pk-pk (75 ohms)
Bandwidth:	5 Hz - 10 MHz
Differential Gain:	<1%
Differential Phase:	<0.7°
Tilt:	<1%
Signal-to-Noise Ratio (SNR):	>67 dB @ Maximum Optical Loss Budget

Data

Data Interface:	Pelco Coaxitron™, Panasonic Proteus™, Bosch Bi-Linx™
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Wavelength

1310/1550 nm, Multimode or Single Mode

Number Of Fibers

1

Connectors

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

Electrical & Mechanical

Power:	
Surface Mount	VDT: 24 VAC C.T. @ 250 mA VDR: 12 VDC @ 250 mA
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., 17.8 x 12.5 x 2.5 cm
Rack Mount:	7.7 x 5.0 x 1.0 in., 19.6 x 12.7 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 of Vicon Industries, Inc. Proteus is a registered trademark of Panasonic, Inc.

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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