



PRODUCT SPECIFICATION

VDT/VDR1505WDM SERIES

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



DESCRIPTION

The IFS VDT/VDR1505 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™, 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/VDR1505 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.

APPLICATION EXAMPLES

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

FEATURES

- Transmission of Video and 'Up-the-Coax' One-Way Data
- 10-Bit Digitally Encoded Video Transmission
- Exceeds RS-250C 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 30 miles (50 km)
- Comprehensive 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**	VDT1505WDM	Video Transmitter/Data Receiver (1310/1550 nm)	1	15 dB	3.0 miles (5 km)
	VDR1505WDM	Video Receiver/Data Transmitter (1310/1550 nm)			
SINGLEMODE 9/125µm	VDT1535WDM	Video Transmitter/Data Receiver (1310/1550 nm)	1	15 dB	15 miles (25 km)
	VDR1535WDM	Video Receiver/Data Transmitter (1310/1550 nm)		18 dB	30 miles (50 km)
	VDT1535WDM-HP	Video Transmitter/Data Receiver (1310/1550)			
ACCESSORIES♦	PS-12VDC 12 Volt DC Plug-in Power Supply (Included) PS-12VDC-230 12 Volt DC Plug-in Power Supply, 230 VAC Input (Included if specified at time of order)				
OPTIONS	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) 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.

International Fiber Systems, Incorporated ■ DESIGN CENTER (888) 999-9IFS or (203) 426-1180
FAX (203) 426-3326 ■ sales@ifs.com ■ For an office near you go to: www.ifs.com
With Offices in Asia Pacific ■ Australia ■ Europe ■ Latin America



TECHNICAL SPECIFICATION

VDT/VDR1505WDM SERIES

DIGITALLY ENCODED 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:	<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™
-----------------	--

WAVELENGTH

1310/1550 nm, Multimode
1310/1550 nm, Singlemode

NUMBER OF FIBERS

1

CONNECTORS

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

ELECTRICAL & MECHANICAL

Power:	VDT: 24 VAC C.T. @ 250 mA VDR: 12 VDC @ 250 mA
Surface Mount:	From Rack
Rack:	1
Number of Rack Slots:	Automatic Resettable Solid-State Current Limiters
Current Protection:	Meets IPC Standard
Circuit Board:	
Size (in./cm.) (LxWxH)	7.0 x 4.9 x 1.0 in., 10.7 x 8.9 x 2.5 cm
Surface Mount:	7.7 x 5.0 x 1.0 in., 17.8 x 12.5 x 2.5 cm
Rack Mount:	
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.

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

AGENCY COMPLIANCE

FCC PART 15 COMPLIANT



MADE IN THE USA

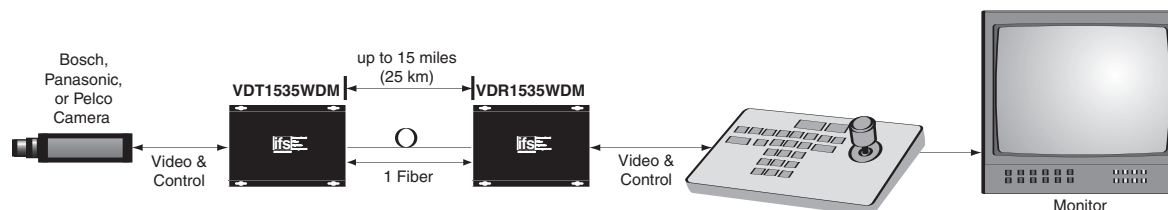
Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

OPTICAL POWER BUDGET

FIBER	WAVELENGTH	TRANSMITTER MODEL	RECEIVER MODEL	OPTICAL PWR BUDGET	MAX. DISTANCE*
Multimode 62.5/125µm**	1310/1550 nm	VDT1505WDM	VDR1505WDM	15 dB	3.0 miles (5 km)
Singlemode 9/125µm		VDT1535WDM	VDR1535WDM	15 dB	15 miles (25 km)
		VDT1535WDM-HP	VDR1535WDM-HP	18 dB	30 miles (50 km)

* 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



International
Fiber
Systems
Incorporated

TEL (203)426-1180 ■ FAX (203)426-3326 ■ www.ifs.com ■ sales@ifs.com
16 Commerce Road ■ Newtown, CT 06470

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

05/03/07