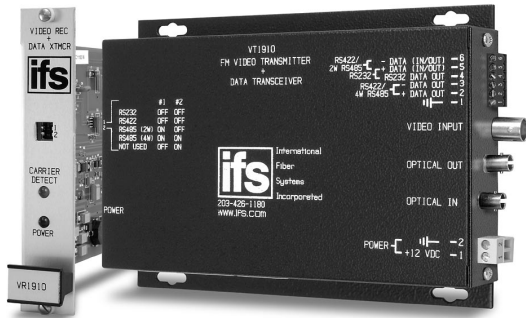




PRODUCT SPECIFICATION FM VIDEO WITH RETURN DATA

VT/VR1530WDM SERIES



DESCRIPTION

The IFS VT/VR1530WDM series video and data transmitter/receiver supports the simultaneous transmission of frequency modulation (FM) video and return data over one optical fiber. The modules are universally compatible with major CCTV camera manufacturers and support RS-232 and RS-422 data interfaces and all major data protocols. Modules within the series are available for use with multimode or single-mode optical fiber. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. The modules incorporate power, and carrier detect status indicating LED's to monitor proper system operation. The modules are available in either stand-alone or rack mount versions.

APPLICATION EXAMPLES

- CCTV with One-Way PTZ Camera Control
- CCTV with Remote Signalization

FEATURES

- FM Video Transmission reduces ghosting, jitter and cross-talk between channels, providing superior video transmission
- NTSC, PAL, SECAM Compatible
- Full Color Compatibility
- Supports RS-232 and RS-422 Data Interfaces
- Transparent to Data Encoding/Compatible with Major CCTV Camera Manufacturers
- No In-field Electrical or Optical Adjustments Required



- Power and Carrier Detect Status Indicating LED's to Monitor System Performance
- Integrated WDM for greater Product Reliability
- Hot-Swappable Rack Modules
- Automatic Resettable Fuses

Available at:
www.ifs.com

- Distances up to 43 Miles (69 km) Without Repeaters
- Comprehensive Lifetime Warranty
- 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**	VT1520WDM	Video Transmitter/Data Receiver (1310/1550 nm, Laser)	1	15 dB	6.2 miles (10 km)
	VR1520WDM	Video Receiver/Data Transmitter (1550/1310 nm, Laser)			
SINGLEMODE 9/125µm	VT1530WDM	Video Transmitter/Data Receiver (1310/1550 nm, Laser)	1	23 dB	43 miles (69 km)
	VR1530WDM	Video Receiver/Data Transmitter (1550/1310 nm, Laser)			
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)				

* 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.

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TECHNICAL SPECIFICATION FM VIDEO WITH RETURN DATA

VT/VR1530WDM SERIES

SPECIFICATIONS

VIDEO

Video Input: 1 volt pk-pk (75 ohms)
 Bandwidth: 5 Hz - 8.0 MHz
 Differential Gain: <5%
 Differential Phase: <5°
 Tilt: <1%
 Signal-to-Noise Ratio (SNR): > 55 dB @ 10 dB ATTN.

DATA

Data Interface: RS- 232, RS-422, Transformer,
 Data Format: NRZ, NRZI, Manchester, Bi-phase
 Data Rate: DC-50 Kbps (NRZ)
 Operating Mode: Full Duplex

WAVELENGTH

VT/VR1520WDM: 1310/1550 nm, Multimode
 VT/VR1530WDM: 1310/1550 nm, Single-mode

NUMBER OF FIBERS

VT/VR1520WDM: 1
 VT/VR1530WDM: 1

CONNECTORS

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

ELECTRICAL & MECHANICAL

Power: 12 VDC @ 300 mA
 Surface Mount: 1
 Number of Rack Slots: 1
 Current Protection: Automatic Resettable Solid-State Current Limiters
 Max. RG59 Cable Length: 750 ft.
 Circuit Board: Meets IPC Standard
 Size (in./cm.) (LxWxH): 7.0 x 4.9 x 1.0 in., 17.8 x 12.5 x 2.5 cm
 Surface Mount: 7.7 x 5.0 x 1.0 in., 19.6 x 12.7 x 2.5 cm
 Rack Mount: < 2 lbs./0.9 kg
 Shipping Weight:

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

FCC PART 15
COMPLIANT



MADE IN THE USA

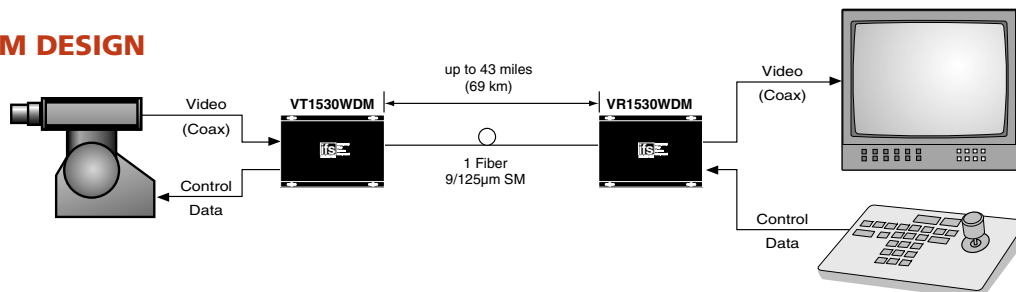
Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

OPTICAL POWER BUDGET

FIBER	WAVELENGTH	TRANSMITTER	RECEIVER	OPTICAL PWR BUDGET	MAX. DISTANCE*
		MODEL	MODEL		
Multimode 62.5/125µm**	1310/1550 nm	VT1520WDM	VR1520WDM	15 dB	6.2 miles (10 km)
Singlemode 9/125µm	1310/1550 nm	VT1530WDM	VR1530WDM		43 miles (69 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

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

04/05/04