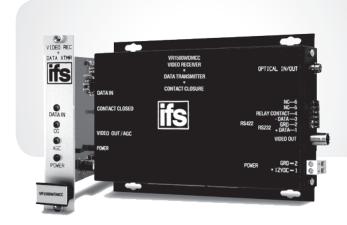


VT/VR1500WDM Series

IFS FM Video with Return Data



OVERVIEW

The IFS VT/VR1500WDM 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 with in 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.

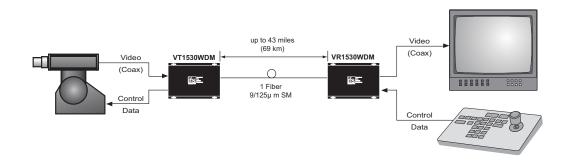
APPLICATION EXAMPLES

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

STANDARD 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 or 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
- Hot-Swappable Rack Modules
- Automatic Resettable Fuses
- Distances up to 43 Miles (69 km) Without Repeaters
- Comprehensive Lifetime Warranty

SYSTEM DESIGN



VT/VR1500WDM Series

IFS FM Video with Return Data

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	9 miles (15 km)	
	VR1520WDM	Video Receiver/Data Transmitter (1550/1310 nm, Laser)	1	15 dB	9 miles (15 km)	
Single Mode 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)	1	23 dB	43 miles (69 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)					

^{*}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

1 volt pk-pk (75 ohms)			
5 Hz - 8.0 MHz			
<5%			
<5°			
<1%			
>55 dB @ 10 dB ATTN. >60 dB @ 7 dB ATTN.			
RS-232, RS-422, Transformer			
NRZ, NRZI, Manchester, Bi-phase			
DC-50 Kbps (NRZ)			
Full Duplex			
1310/1550 nm, Multimode			
1310/1550 nm, Single Mode			
VTVR1520WDM: 1, VTVR1530WDM: 1			
ST			
Terminal Block with Screw Clamps			
BNC (Gold Plated Center-Pin)			
12 VDC @ 300 mA			
1			
Automatic Resettable Solid-State Current Limiters			
750 ft.			
Meets IPC Standard			
7.0 x 4.9 x 1.0 in., 17.8 x 12.5 x 2.5 cm			
7.7 x 5.0 x 1.0 in., 19.6 x 12.7 x 2.5 cm			
< 2 lbs./0.9 kg			
> 100,000 hours			
-40° C to +74° C			
-40° C to +85° C			
-40° C to +85° C			

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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