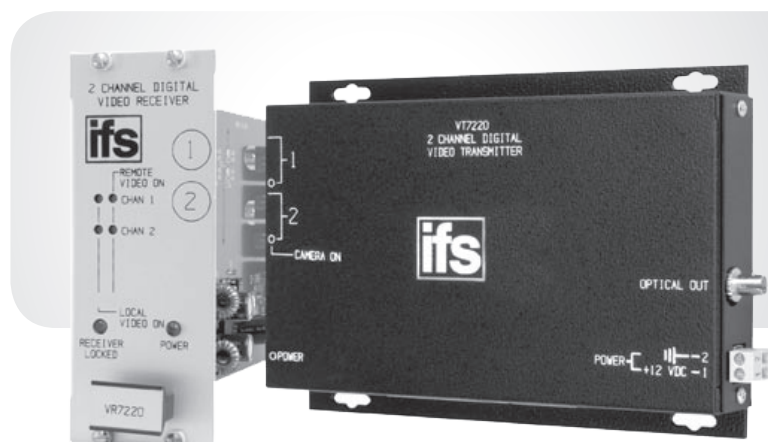


# VT/VR7200 Series

IFS 2-Channel Digital Video Multiplexer



## OVERVIEW

The IFS VT/VR7200 Series multiplexers simultaneously transmit two channels of video over one optical fiber utilizing 8-bit digital encoding for high-quality video transmission. These products exceed EIA-250C for Medium-Haul Video Transmission performance requirement. The modules are universally compatible with major CCTV camera manufacturers. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. The modules incorporate Power, Receiver Locked and Video Presence Status indicating LED's to monitor proper system operation. The modules are available in either stand-alone or rack mount versions.

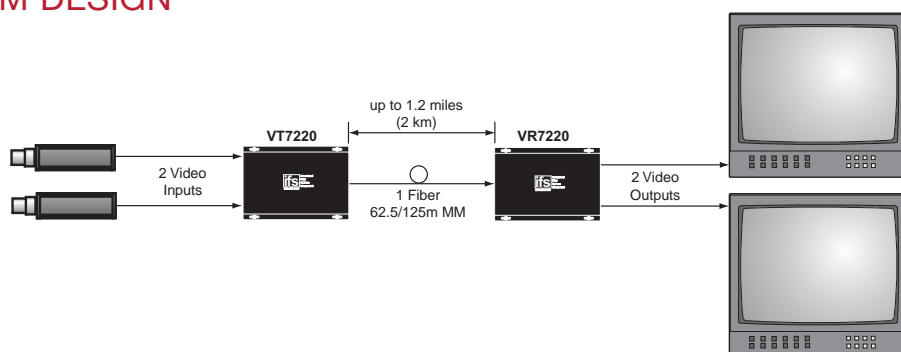
## APPLICATION EXAMPLES

- CCTV

## STANDARD FEATURES

- 8-Bit Digitally Encoded Video Transmission Transmits 2 Real-Time Color Video Signals
- Exceeds RS-250C Medium-Haul Transmission Performance Standard Directly Compatible with All NTSC, PAL, or SECAM CCTV Camera Systems
- LED Status Indicators Provide Indication of Critical Operating Parameters
- Tested and Certified by an Independent Testing Laboratory for Full Compliance with the Environmental Requirements (Ambient Operating Temperature, Mechanical Shock, Vibration, Humidity with Condensation, High-Line/Low-Line Voltage Conditions and Transient Voltage Protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- Solid-State Current Limiters on All Power Lines Provide Equipment Protection
- Exceeds NEMA TS-1/TS-2 and Caltrans Traffic Signal Control Equipment
- Compatible with Major CCTV Camera Manufacturers
- No In-field Electrical or Optical Adjustments Required
- Hot-Swappable Rack Modules
- Automatic Resettable Fuses on all Power Lines
- Comprehensive Lifetime Warranty

## SYSTEM DESIGN



# VT/VR7200 Series

IFS 2-Channel Digital Video Multiplexer

North America  
T 855-286-8889

Latin America  
T 561-998-6114

## Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	VT7220	2-Channel Video Transmitter (1310 nm)	1	7 dB	1.2 miles (2 km)***
	VR7220	2-Channel Video Receiver (1310 nm)	1	7 dB	1.2 miles (2 km)***
Single Mode 9/125µm	VT7230	2-Channel Video Transmitter (1310 nm)	1	17 dB	31 miles (51 km)
	VR7230	2-Channel Video Receiver (1550/1310 nm)	1	17 dB	31 miles (51 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.

\*\*\* This product may be used with 62.5 µm graded index multimode fiber having a maximum run length of 2 km and/or a maximum optical loss budget of 10 dB.

\*All accessories are third party manufactured.

## Specifications

### Video

Video Input:	1 Volt pk-pk (75 ohms)
Bandwidth:	10 Hz - 6.5 MHz
Differential Gain:	<2%
Differential Phase:	<0.7°
Tilt:	<1%
Signal-to-Noise Ratio (SNR):	>60 dB @ Maximum Optical Loss Budget

### Wavelength

	1310/1550 nm, Multimode
	1310/1550 nm, Single Mode

### Optical Emitters

	Laser Diode
--	-------------

### Number Of Fibers

	1
--	---

### Connectors

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

### Electrical & Mechanical

Power:	
Surface Mount:	12 VDC @ 500 mA (Surface Mount)
Rack:	From Rack
Number of Rack Slots:	2
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 2.0 in., 19.6 x 12.7 x 5.1 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)

## Agency Compliance

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



interlogix.com

Specifications subject to change without notice.

© 2014 United Technologies Corporation  
All rights reserved.

Interlogix is part of UTC Building & Industrial Systems,  
a unit of United Technologies Corporation.

VT/VR7200 Series