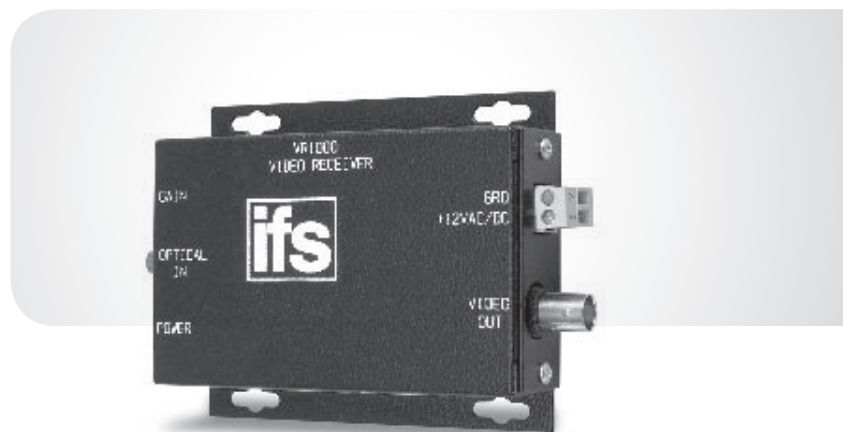


# VR1000 Series

## IFS AM Video Receiver



### OVERVIEW

The IFS VR1000 Series video receiver detects an AM video signal on one multimode optical fiber. The VR1000 utilizes manual gain control. The receiver is compatible with the IFS VT1101M, VT1101M-AC, and VT1001 series transmitters. Plug-and-play design ensures ease of installation. The receiver incorporates a power status indicating LED for monitoring proper system operation. The module is available in a stand-alone version only.

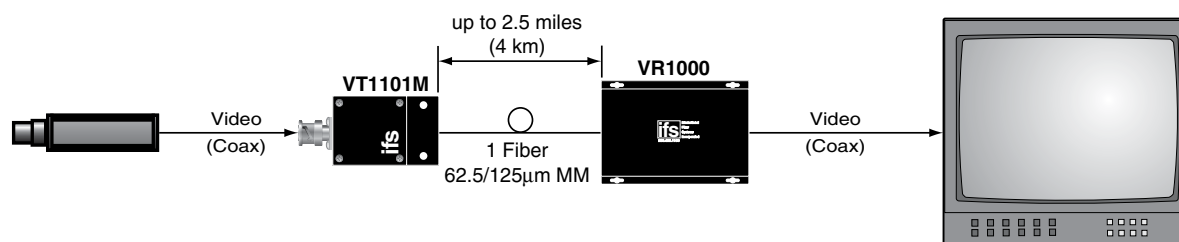
### STANDARD FEATURES

- AM Video
- NTSC, PAL, SECAM Compatible
- Full Color Compatibility
- Utilizes Manual Gain
- Plug-and-play Design for Ease of Installation
- Power Status Indicating LED to Monitor System Performance
- Automatic Resettable Fuses on all Power Lines
- Comprehensive Lifetime Warranty

### APPLICATION EXAMPLES

- CCTV (Fixed Video)

### SYSTEM DESIGN



# VR1000 Series

IFS AM Video Receiver

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**	VR1000	Video Receiver (850 nm)	1	14 dB	2.5 miles (4 km)
		VR1000 is compatible with: VT1101M, VT1101-AC, AND VT1001Series Transmitters			
Accessories ♦	PS12VDC1.5A-U	12VDC, 1.5A Plug-in Power supply (110/220VAC) with Universal power plug adapter kit (Included)			

\*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 Output:	1 volt pk-pk (75 ohms)
Bandwidth:	5 Hz - 10 MHz
Differential Gain:	<5%
Differential Phase:	<5°
Tilt:	<1%
Signal-to-Noise Ratio (SNR):	60 dB typical, 54 dB minimum

### Wavelength

	850 nm, Multimode
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### Receiver Sensitivity

	1 µw (-30 dBm)
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### Transmitter Output

	25 µw (-16 dBm)
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### Number Of Fibers

	1
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### Connectors

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

### Electrical & Mechanical

Power:	10-12 VDC @ 150 mA
Current Protection:	Automatic Resettable Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Size (in./cm.) (LxWxH)	
Surface Mount:	4.2 x 3.5 x 1.0 in., 10.7 x 8.9 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)

### 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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VR1000