

## Overview

The IFS VR1000 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.

## Application Examples

- CCTV (Fixed Video)

## Standard Features

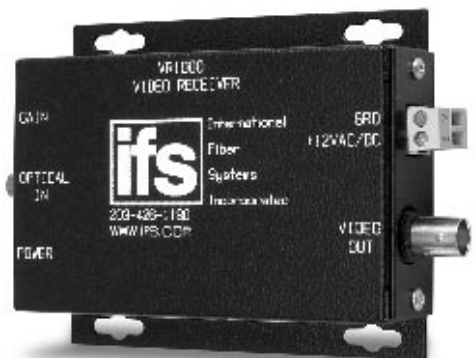
- AM Video
- NTSC, PAL, SECAM Compatible
- Full Color Compatibility
- Utilizes Manual Gain
- Plug and Play Design for Ease of Installation
- Power Status Indicating LED to Monitor System Performance
- Automatic Resettable Fuses on all Power Lines
- Comprehensive Lifetime Warranty

# AM Video Receiver

Detects an AM video signal on one multimode optical fiber.



imagination at work



# GE Security

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Specifications subject to  
change without notice

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## Made in the USA

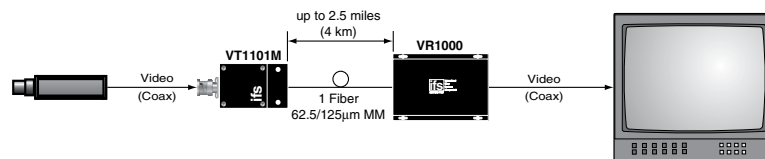
Complies with FDA Performance  
Standard for Laser Products, Title 21,  
Code of Federal Regulations, Subchapter J

## Specifications

<b>Video</b>	
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
<b>Wavelength</b>	
	850 nm, Multimode
<b>Receiver Sensitivity</b>	
	1 µw (-30 dBm)
<b>Transmitter Output</b>	
	25 µw (-16 dBm)
<b>Number Of Fibers</b>	
	1
<b>Connectors</b>	
Optical:	ST
Power:	Terminal Block with Screw Clamps
Video:	BNC (Gold Plated Center-Pin)
<b>Electrical &amp; Mechanical</b>	
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
<b>Environmental</b>	
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.

## System Design



## Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
	VR1000	Video Receiver (850 nm)	1	14 dB	2.5 miles (4 km)
		VR1000 is compatible with: VT1101M, VT1101-AC, AND VT1001 Series Transmitters			
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 '-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.

