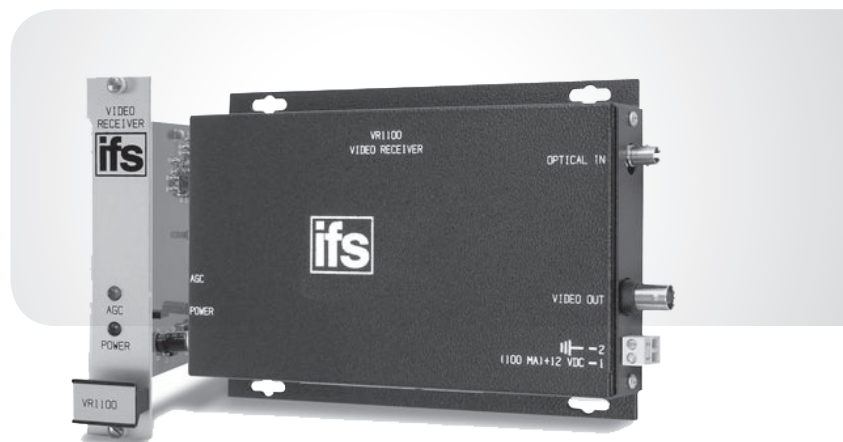


# VR1100 Series

IFS AM Video Receiver  
with Automatic Gain Control (AGC)



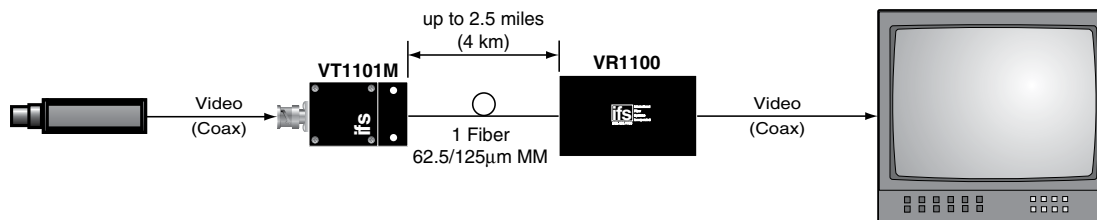
## OVERVIEW

The IFS VR1100 Series video receiver detects an AM video signal on one multimode fiber optic cable. The receiver utilizes automatic gain control (AGC) and is compatible with the IFS VT1101M, VT1101M-AC, and VT1001 Series transmitters. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. The receiver incorporates power and AGC status indicating LED's for monitoring proper system operation. The module is available in either stand-alone or rack mount version.

## APPLICATION EXAMPLES

- CCTV (Fixed Video)

## SYSTEM DESIGN



## STANDARD FEATURES

- AM Video
- NTSC, PAL, SECAM Compatible
- Full Color Compatibility
- Full Range Automatic Gain Control (AGC)
- No In-field Electrical or Optical Adjustments Required
- Power and AGC Status Indicating LED's to Monitor System Performance
- Hot-Swappable Rack Modules
- Automatic Resettable Fuses on all Power Lines
- Comprehensive Lifetime Warranty

# VR1100 Series

IFS AM Video Receiver with Automatic Gain Control (AGC)

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**	VR1100	AGC Video Receiver (850 nm)	1	14 dB	2.5 miles (4 km)
		VR1100 Series is compatible with: VT1101M, VT1101-AC, AND VT1001 Series Transmitters			
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

### Video

Video Output:	1 volt pk-pk (AGC controlled)
Bandwidth:	5 Hz - 10 MHz (At 6 dB Attenuation)
Differential Gain:	<5%
Differential Phase:	<5°
Tilt:	<1%
Signal-to-Noise Ratio (SNR):	>55 dB at 10 dB Attn. >60 dB at 7 dB Attn.

### 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:	
Surface Mount:	12 VDC @ 150 mA
Rack:	From Rack
Max. RG59 Cable Length	750 ft.
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., 10.7 x 8.9 x 2.5 cm
Rack Mount:	7.7 x 5.0 x 1.0 in., 17.8 x 12.5 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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