PRODUCT SPECIFICATION
AM VIDEO RECEIVER

VR1000

DESCRIPTION

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, VT1000AC, 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)

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
- Lifetime Warranty

Available at: www.ifs.com

- A & E Specifications, (CSI)
- AutoCAD Drawings
- Operation Manuals
- Technical Bulletins

ORDERING INFORMATION

	PART NUMBER	DESCRIPTION	FIBERS REQUIRED
MULTIMODE 62.5/125µm**	VR1000	Video Receiver (850 nm)	1
	VR1000 is compatible with: VT1101M, VT1000AC & VT1001 Series Transmitters		
OPTIONS	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) 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.**

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TECHNICAL SPECIFICATION
AM VIDEO RECEIVER
VR1000

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

NUMBER OF FIBERS 1

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)†

†May be extended to condensation conditions by adding suffix '–C' to model number for conformal coating.

AGENCY COMPLIANCE

FCC PART 15 COMPLIANT

MADE IN THE USA

GSA Federal Supply Schedule Contract No. GS-07F-0049M

OPTICAL POWER BUDGET

FIBER	WAVELENGTH	TRANSMITTER		RECEIVER		OPTICAL PWR BUDGET	MAX. DISTANCE*
		MODEL	OUTPUT	MODEL	SENSITIVITY		
Multimode 62.5/125µm**	850 nm	VT1000AC VT1001 VT1101M	25µw (-16 dBm)	VR1000	1 µw (-30 dBm)	14 dB	2.5 miles (4 km)
		VT1002AC VT1003 VT1102M	100 µw (-10 dBm)			20 dB	3.5 miles (5.5 km)

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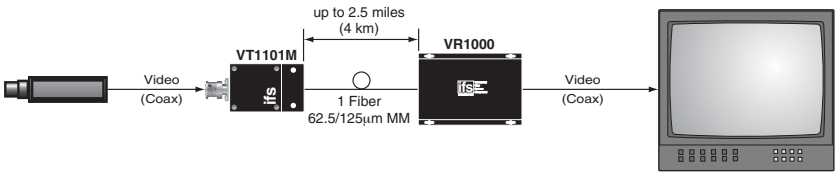
SYSTEM DESIGN



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