



### DESCRIPTION

The IFS VT1101M video mini-transmitter supports the simultaneous transmission of a fixed video signal using AM modulation and one contact closure on one multimode fiber optic cable. This contact closure allows an additional device such as a dome tamper switch or alarm event input to be added and its signal transmitted back to the monitoring location. The transmitter is direct camera mountable eliminating the use of coaxial cable at the camera connection and will fit in most camera housings. A BNC feed-through coupler is also supplied to connect to coaxial cable when not mounting the module directly to the camera. The VT1101M video transmitter is compatible with the IFS VR1000, VR1001, VR1100, VR2100 and VR1100CC receivers. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. The transmitter incorporates a power status indicating LED for monitoring proper system operation. The transmitter is available in a stand-alone version only.

### APPLICATION EXAMPLES

- CCTV (Fixed Video)

### FEATURES

- AM Video Transmission
- NTSC, PAL, SECAM Compatible
- Full Color Compatibility
- Direct Camera Mountable
- Power Status LED
- Contact Closure
- No In-field Electrical or Optical Adjustments Required
- Comprehensive Lifetime Warranty



Available at: [www.ifs.com](http://www.ifs.com)

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

### ORDERING INFORMATION

	PART NUMBER	DESCRIPTION	FIBERS REQUIRED	OPTICAL PWR BUDGET	MAX. DISTANCE*
<b>MULTIMODE 62.5/125µm**</b>	VT1101M	Video Transmitter (850 nm)	1	14 dB	2.5 miles (4 km)
	VT1101M is compatible with: VR1000, VR1001, VR1100, VR2100 and VR1100CC				
<b>ACCESSORIES♦</b>	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)				
	PS-1101M 24 VAC Adapter (Optional, consult factory for availability)				
<b>OPTIONS</b>	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.

## SPECIFICATIONS

### VIDEO

Video Input: 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

### CONTACT CLOSURES

Status: Normally Open

### 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: 9 - 12 VDC @ 150 mA  
 10 - 14 VAC @ 200 mA  
 Max. RG59 Cable Length: 750 ft.  
 Circuit Board: Meets IPC Standard  
 Size (in./cm.) (LxWxH)  
 Surface Mount: 2.5 x 1.6 x 1.0 in., 6.4 x 4.1 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



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

## MADE IN THE USA

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

## OPTICAL POWER BUDGET

FIBER	WAVELENGTH	TRANSMITTER	RECEIVER	OPTICAL PWR BUDGET	MAX. DISTANCE*
		MODEL	MODEL		
Multimode 62.5/125µm**	850 nm	VT1101M	VR1000 VR1001 VR1100 VR2100 VR1100CC	14 dB	2.5 miles (4 km)

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## SYSTEM DESIGN

