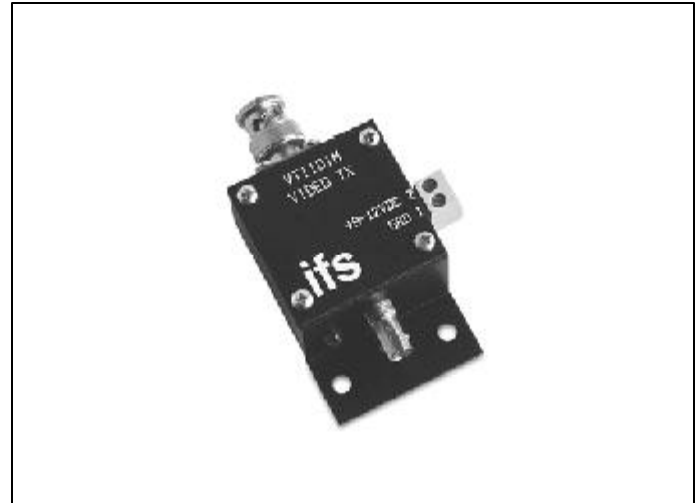




**FEATURES**

- Direct Camera Mounting
- 5 Hz - 10 MHz Bandwidth
- High Power 850 nm version available
- 60 dB Signal-Noise
- 850 nm Multimode
- Distances to 3.5 miles (5.5 km)
- 9 - 12 VDC Power (Reverse polarity protected)
- Optional 24 VAC Adapter that allows unit to be powered directly from camera
- Ambient Operating Temperature -40° C to +74° C
- Fully color compatible
- NTSC, PAL, SECAM Compatible



**SPECIFICATIONS**

<b>Input:</b>	1 volt pk-pk (75 ohms)
<b>Bandwidth:</b>	5 Hz - 10 MHz
<b>Differential Gain:</b>	<5%
<b>Differential Phase:</b>	<5°
<b>Tilt:</b>	<1%
<b>Signal-Noise:</b>	60 dB
<b>Operating Temp:</b>	-40° C to +74° C
<b>Storage Temp:</b>	-40° C to +85° C
<b>Relative Humidity:</b>	0% to 95% (non-condensing)*
<b>Wavelength:</b>	850 nm
<b>Number of Fibers:</b>	1
<b>Power:</b>	9 - 12 VDC @ mA 10 - 14 VAC @ 150 mA
<b>MTBF:</b>	>100,000 hours
<b>Connectors</b>	
Optical:	ST
Power:	Terminal block with screw clamps
Video:	BNC (gold plated center-pin)
<b>Size (in.) (LxWxH):</b>	2.5 x 1.6 x 1

\*May be extended to humidity with condensation conditions by adding suffix "C" to model number for conformal coating.

**PLUG AND PLAY OPERATION**

- No Electrical or Optical Adjustments
- Distances up to 3.5 miles (5.5 km) without repeaters

**SYSTEM FLEXIBILITY**

- Direct Camera Mounting or Surface Mounting
- NTSC, PAL, SECAM Standards

**QUALITY DESIGN**

- Mil-Grade Circuit Board
- U.L. Listed, CE Approved
- Automatic Resettable Fuses
- 100,000 Hours MTBF
- Lifetime Warranty

**APPLICATIONS**

- CCTV (Fixed Video)



## OPTICAL POWER BUDGET

62.5/125 Fiber (Loss Assumption: 4 dB/km)

TRANSMITTERS		RECEIVERS (Sensitivity)
Model No.	Output Power	VR1000, VR1001, VR1100, VR2100 (1uw), (-30 dBm)
VT1101M	25 uw (-16 dBm)	14dB 2.5 miles (4 km)
VT1102M	100 uw (-10 dBm)	20 dB* 3.5 miles (5.5 km)

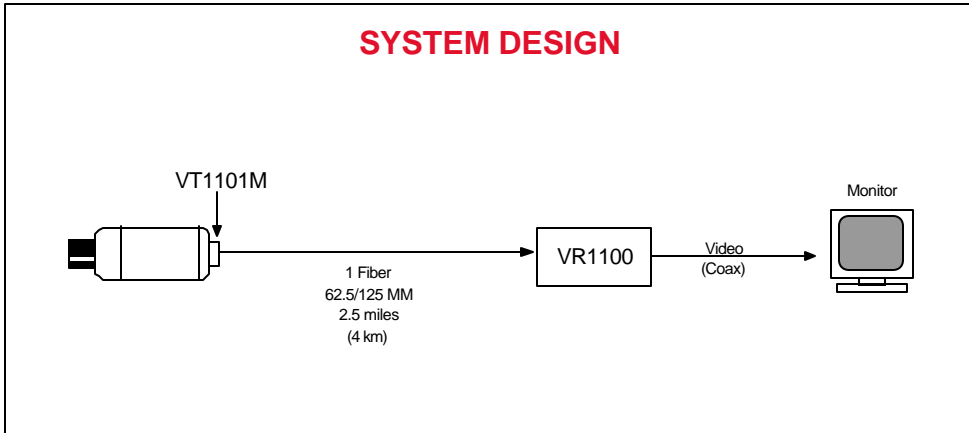
For 50/125 Fiber, subtract 4 dB

\*Requires 6 dB minimum attenuation

## ENGINEERING SPECIFICATIONS

The fiber optic video mini-transmitter shall be an IFS VT1101M series. The unit shall provide transmission of video signals over standard 62.5/125 multimode fiber optic cable. Compatible receivers shall be IFS VR1000, VR1100, VR1001 and VR2100 series. It shall be fully color compatible. The unit shall provide for transmission of video over distances of up to 3.5 miles (5.5 km) without requiring manual adjustments. All printed circuit boards shall be manufactured from Mil-Grade specification circuit board material. The housing shall be all metal construction with all connections identified with silk screened labels. The units shall have solid state limiters on all power lines which shall provide for automatic reset. The unit shall be U.L. Listed.

## SYSTEM DESIGN



MADE IN THE USA

Regulatory Agencies / Approvals:

### ORDERING INFORMATION

- VT1101M** Video Transmitter
- VT1102M** High Power Video Transmitter
- PS - 12DC** 12 VDC Power Supply (included)
- PS - 1101M** 24 VAC Adapter (optional: consult factory for availability)

**Compatible with:** VR1000, VR1001, VR1100, VR2100 Series Receivers.



LISTED

I.T.E.  
6D16

Contract #  
GS-03F-5043C



**International Fiber Systems, Inc.**



5.17.99