

mini video transmitter and receiver with (agc)



## Description

The ComNet™ FVT11M video mini-transmitter and FVR11M video mini-receiver supports transmission and reception of a fixed video signal using AM modulation on one multimode fiber optic cable. The FVT11M video transmitter is compatible with the FVR11M, FVR10M, FVR21, and FVR22 receivers. The FVR11M utilizes Automatic Gain Control (AGC) and is compatible with the ComNet FVT11M and the FVT20 transmitters. Plug-and-play design ensures ease of installation requiring no electrical or optical adjustments. The transmitter and receiver incorporate bi-color (Red/Green) indicating LED's for monitoring proper system operation.

## Applications

- CCTV (Fixed Video)

## Features

- AM Video Transmitter and Receiver
- NTSC, PAL, SECAM compatible
- The receiver utilizes Automatic Gain Control (AGC)
- Full color compatibility
- No in-field electrical or optical adjustments required
- Voltage transient protection on all power and signal input/output lines provides unconditional protection from power surges and other voltage transient events.
- Bi-Color (Red/Green) Video Present indicator
- Lifetime Warranty



specifications

VIDEO

Video Input TX:	1 volt pk-pk (75 ohms)
Video Output RX:	1 volt pk-pk (AGC controlled)
Bandwidth:	5 Hz - 10 MHz*
Differential Gain:	<5%
Differential Phase:	<5°
Tilt:	<1%
Signal-to-Noise Ratio (SNR):	60 dB
Max. RG-59 COAX Distance:	100m (300ft) Camera to Fiber Optic Module to maintain 6Mhz Bandwidth

WAVELENGTH

FVT11M, FVR11M 850 nm, Multimode

NUMBER OF FIBERS

1

CONNECTORS

Optical:	ST
Power:	Terminal Block
Video:	BNC (Gold Plated Center-Pin)

LED INDICATORS

- Video Present

ELECTRICAL & MECHANICAL

Power TX:	8-15 VDC @ 80 mA
Power RX:	8-15 VDC @ 60 mA
Max. RG59 Cable Length:	750 ft.
Circuit Board:	Meets IPC Standard
Size (in./cm) (L×W×H)	
FVT11M Surface Mount:	2.3 × 1.6 × 1.1 in., (5.7 × 4.1 × 2.8 cm)
FVR11M Surface Mount:	4.0 × 3.7 × 1.0 in., (10.4 × 9.5 × 2.7 cm)
Shipping Weight:	<2 lb./0.9 kg

ENVIRONMENTAL

MTBF:	>100,000 hours
Operating Temp:	-40° C to +75° C
Storage Temp:	-40° C to +85° C
Relative Humidity:	0% to 95% (non-condensing) <sup>†</sup>

\* At 6 dB Attenuation

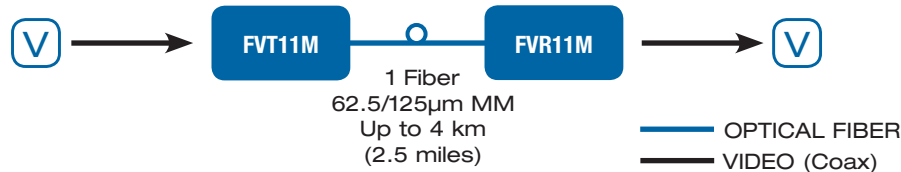
<sup>†</sup> May be extended to condensation conditions by adding suffix '/C' to model number for conformal coating.



PART NUMBER	DESCRIPTION	FIBERS REQUIRED	FIBER	OPTICAL PWR BUDGET	MAX. DISTANCE**
FVT11M	Mini Video Transmitter (850 nm)	1	Multimode	14 dB	4 km (2.5 miles)
FVR11M	AGC Mini Video Receiver (850 nm)		62.5/125µm		
Accessories	9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)				

\*\*Distance may be limited by optical dispersion.

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J  
In a continuing effort to improve and advance technology, product specifications are subject to change without notice.



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