

single video receiver with  
manual gain control



## Description

The ComNet™ FVR10 video receiver detects an AM video signal on one multimode optical fiber. The receiver utilizes Manual Gain Control 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. Bi-color (Red/Green) LED indicators are provided for rapidly ascertaining equipment operating status. These units are interchangeable between stand-alone or card mount configurations.

## Features

- AM Video Receiver
- NTSC, PAL, SECAM compatible
- Manual Gain Control
- Full color compatibility
- 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) indicator to monitor system performance
- Hot-swappable rack modules
- Interchangeable between stand-alone or rack mount use
  - ComFit
- Lifetime Warranty

## Applications

- CCTV (Fixed Video)

specifications

VIDEO

Video Output:	1 volt pk-pk
Bandwidth:	5 Hz - 10 MHz*
Differential Gain:	<5%
Differential Phase:	<5°
Tilt:	<1%
Signal-to-Noise Ratio (SNR):	>55 dB @ 10 dB Attn. >60 dB @ 7 dB Attn.
Max. RG-59 COAX Distance:	100m (300ft) Camera to Fiber Optic Module to maintain 6MHz Bandwidth

WAVELENGTH

FVR10	850 nm, Multimode
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NUMBER OF FIBERS

	1
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CONNECTORS

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

LED INDICATORS

	- Video Present
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ELECTRICAL & MECHANICAL

Power:	8-15 VDC @ 60 mA
Surface Mount:	From Rack
Rack:	
Number of Rack Slots:	1
Circuit Board:	Meets IPC Standard
Size (in./cm) (L×W×H)	
Surface Mount:	6.1 × 5.3 × 1.1 in., (15.5 × 13.5 × 2.8 cm)
Shipping Weight:	<2 lbs./0.9 kg

ENVIRONMENTAL

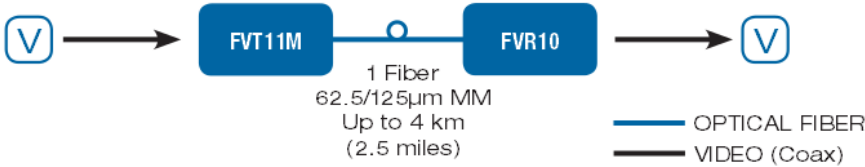
MTBF:	>100,000 hours
Operating Temp:	-40° C to +75° C
Storage Temp:	-40° C to +85° C
Relative Humidity:	0% to 95% (non-condensing)†

\* At 6 dB Attenuation  
† 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‡
FVR10	Video Receiver (850 nm)	1	Multimode 62.5/125µm	14 dB	4 km (2.5 miles)
Accessories	9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)				
Options	Add '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory)				

‡ 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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