

Single Mini Video Receiver with Manual Gain Control

FVR10M





The ComNet[™] FVR10M video receiver detects an AM video signal on one multimode fiber optic cable. 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 only available in stand-alone configurations.

FEATURES

- > AM Video Receiver
- > NTSC, PAL, SECAM compatible
- Manual Gain Control
- > Full color compatibility
- Designed to meet full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/lowline voltage conditions and transient voltage protection) of NEMA TS-1/TS-2 and the Caltrans Specification for Traffic Signal Control Equipment.
- > Voltage transient protection on all power and signal input/ output lines provides protection from power surges and other voltage transient events.

- > Bi-Color (Red/Green) indicator to monitor system performance
- Units may be DIN-Rail mounted by the addition of ComNet model DINBKT1 or DINBKT4 adaptor plate
- › Lifetime Warranty

APPLICATIONS

> CCTV (Fixed Video)

Single Mini Video Receiver with Manual Gain Control

SPECIFICATIONS

Video

Video Output1 volt pk-pkOperating Voltage Range Power Consumption8 to 15 VDC 60 mABandwidth5 Hz - 10 MHz1Power Consumption60 mADifferential Gain<5%Electrical & MechanicalDifferential Phase<5°Circuit BoardMeets IPC StandardSignal-to-Noise Ratio (SNR)>55 dB @ 10 dB Attn. >60 dB @ 7 dB Attn. >60 dB @ 7 dB Attn. >60 dB @ 7 dB Attn.Size4.0 × 3.7 × 1.0 in (10.4 × 9.5 × 2.7 cm) Sipping WeightMax. RG-59 COAX Distare100m (300ft) Camera to Fiber Optic Module to maintain 6Mhz BandwidthMTBF>100,000 hours Operating TempWavelengths50 nm, MultimodeMTBF>100,000 hours Operating Temp-40° C to +75° C Storage TempNumber of Fibers1[1] At 6 dB AttenuationOpticalST PowerFreminal Block Video[1] At 6 dB AttenuationOpticalST PowerSNC (Gold Plated Center-Pin)INGENCY COMPLIANCE LEDSIndicating LEDsVideo PresentCircuit PresentINTERCENCE						
Differential Phase <5° Tilt <1% Signal-to-Noise Ratio (SNR) >55 dB @ 10 dB Attn. >60 dB @ 7 dB Attn. >60 dB @ 7 dB Attn. Max. RG-59 COAX Distance 100m (300ft) Camera to Fiber Optic Module to maintain 6Mhz Bandwidth Size 4.0 × 3.7 × 1.0 in (10.4 × 9.5 × 2.7 cm) Wavelength >100m (300ft) Camera to Fiber Optic Module to maintain 6Mhz Bandwidth MTBF >100,000 hours Vavelength FVR10M 850 nm, Multimode MTBF >100,000 hours Number of Fibers 1 Storage Temp -40° C to +75° C Optical ST Relative Humidity 0% to 95% (non-condensing)² (1] At 6 dB Attenuation III At 6 dB Attenuation MAXERO PSW (non-condensing)² Indicating LEDs Video BNC (Gold Plated Center-Pin) Image: Compliance Image: Compliance			5 Hz - 10 MHz ¹ <5%	, 1 5 5 5		
Signal-to-Noise Ratio (SNR) >55 dB @ 10 dB Attn. Signal-to-Noise Ratio (SNR) >55 dB @ 10 dB Attn. Max. RG-59 COAX Distance 100m (300ft) Camera to Fiber Optic Module to maintain 6Mhz Bandwidth Wavelength FVR10M FVR10M 850 nm, Multimode Number of Fibers 1 Optical ST Power Terminal Block Video BNC (Gold Plated Center-Pin) Indicating LEDs Video Present				Electrical & Mechanical		
Signal to Note hate (still) > 60 dB @ 7 dB Attn. Max. RG-59 COAX Distance 100m (300ft) Camera to Fiber Optic Module to maintain 6Mhz Bandwidth Wavelength FVR10M FVR10M 850 nm, Multimode Number of Fibers 1 Connectors 0% to 95% (non-condensing)² Optical ST Power Terminal Block Video BNC (Gold Plated Center-Pin) Indicating LEDs Video Present					4.0 × 3.7 × 1.0 in (10.4 × 9.5 × 2.7 cm)	
maintain 6Mhz Bandwidth MTBF >100,000 hours FVR10M 850 nm, Multimode Operating Temp -40° C to +75° C Number of Fibers 1 Storage Temp -40° C to +85° C Number of Fibers 1 0% to 95% (non-condensing)² Connectors 0ptical ST Power Terminal Block [1] At 6 dB Attenuation Video BNC (Gold Plated Center-Pin) MGENCY COMPLIANCE Indicating LEDs Video Present Image: Compliance		Signal-to-Noise Ratio (SNR)	>60 dB @ 7 dB Attn. 100m (300ft) Camera to Fiber Optic Module to	•		
Wavelength MTBF >100,000 hours FVR10M 850 nm, Multimode Operating Temp -40° C to +75° C Number of Fibers 1 Storage Temp -40° C to +85° C Number of Fibers 1 (1) At 6 dB Attenuation Optical ST Power Terminal Block Video BNC (Gold Plated Center-Pin) MADE FOR COMPLIANCE FOR SUMPLIANCE		Max. RG-59 COAX Distance		Environmental		
Number of Fibers 1 Connectors 0% to 95% (non-condensing) ² Optical ST Power Terminal Block Video BNC (Gold Plated Center-Pin) Indicating LEDs Video Present		Wavelength			,	
Number of Fibers 1 Connectors [1] At 6 dB Attenuation Optical ST Power Terminal Block Video BNC (Gold Plated Center-Pin) Indicating LEDs Video Present		FVR10M	850 nm, Multimode			
Optical ST Power Terminal Block Video BNC (Gold Plated Center-Pin)		Number of Fibers	1	Relative Humidity	0% to 95% (non-condensing) ²	
Power Terminal Block Video BNC (Gold Plated Center-Pin) Indicating LEDs Video Present		Connectors		[1] At 6 dB Attenuation		
Indicating LEDs Video Present	Power Terminal Block		Terminal Block			
		Indicating LEDs	Video Present			



MADE IN THE

ORDERING INFORMATION

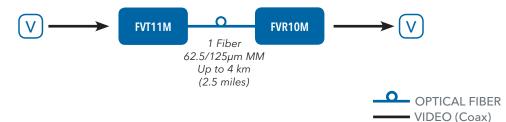
Part Number	Description	Fibers Required	Fiber	Optical PWR Budget	Maximum Distance ³		
FVR10M	Mini Video Receiver (850 nm)	1	Multimode 62.5/125µm	14 dB	4 km (2.5 miles)		
Accessories Options	DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included) [2] Add '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory) DIN-Rail Mounting Adaptor Plate Kit - With mounting hardware (Optional, order model DINBKT1 or DINBKT4)						

Power

[3] 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.

TYPICAL APPLICATION



Communication Networks

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