



The ComNet™ FVR22/LV consists of two independent AM video fiber optic receivers in one module. It uses two independent multimode fiber optic cables to receive two separate signals from two transmitters. The module is not a multiplexer. The unit incorporates a "Loss of Video" relay for each channel. Upon loss of video signal or optical fiber break, the normally closed relay opens. The module is ideal for CCTV installations and the rack mount version can be used to double the fixed video capacity of the C1 rack for up to 28 independent video channels per card cage. The modules utilize Automatic Gain Control (AGC). The receiver is compatible with the ComNet FVT11M and the FVT20 dual video transmitter. Plug-and-play design ensures ease of installation.

FEATURES

- › AM Video Receiver
- › NTSC, PAL, SECAM compatible
- › Loss of Video Contact Relay (Closed with Video)
- › Full range Automatic Gain Control (AGC)
- › Two independent receivers in one model
- › Full color compatibility
- › Can be used to double the fixed video capacity of a C1 card cage
- › Plug-and-Play design for ease of installation
- › No electrical or optical adjustments required
- › Designed to meet full compliance with the environmental requirements (ambient operating temperature, mechanical shock, vibration, humidity with condensation, high-line/low-line 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) LED indicators are provided for rapidly ascertaining equipment operating status
- › Hot-swappable rack modules
- › Interchangeable between stand-alone or rack mount use - ComFit
- › May be DIN-rail mounted by the addition of ComNet model DINBKT1 or DINBKT4 adaptor plate.
- › Automatic resettable fuses on all power lines
- › Lifetime Warranty

APPLICATIONS

- › CCTV (Fixed Video)

SPECIFICATIONS

Video

Video Output	1 volt pk-pk (75 ohms)
Bandwidth	5 Hz to 10 MHz ¹
Differential Gain	<5%
Differential Phase	<5°
Tilt	<1%
Signal-to-Noise Ratio (SNR)	60 dB typical 54 dB minimum
Max. RG-59 COAX Distance	100 m (300 ft) Camera to Fiber Optic Module to maintain 6 Mhz Bandwidth

Loss of Video Relay

Response Time	0.5 msec
Inputs	Dry Contact Closure
Outputs	SPST Relay, 0.5 A Contact Rating, Normally Closed

Wavelength

850 nm, Multimode

Number of Fibers

2

Connectors

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

Indicating LEDs

Video Presence for Each Channel

Power

Operating Voltage Range	8 to 15 VDC (or from C1 Rack, sold separately)
Power Consumption	2 W

Electrical & Mechanical

Number of Rack Slots	1
Current Protection	Automatic Resettable Solid-State Current Limiters
Circuit Board	Meets IPC Standard
Size	6.1 × 5.3 × 1.1 in (15.5 × 13.5 × 2.8 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) ²

AGENCY COMPLIANCE

 PART 15 COMPLIANT E322911


 N24621

MADE IN THE USA

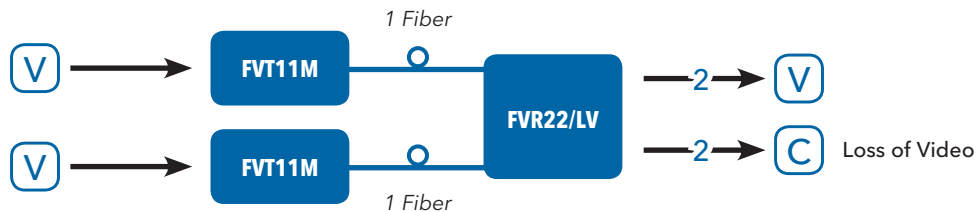
ORDERING INFORMATION

Part Number	Description	Fibers Required	Fiber	Optical PWR Budget	Maximum Distance ³	# Rack Slots
FVR22/LV	AGC Dual Video Receiver (850 nm)	2	Multimode 62.5/125µm	14 dB	4 km (2.5 miles)	1
Accessories	DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)					
Options	[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)					

[3] Distance may be limited by optical dispersion.

NOTE: This product requires a fiber installation with a minimum 30 dB connector return loss. The use of Super Polish Connectors is recommended. 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



 OPTICAL FIBER
 VIDEO (Coax)