Dual AM Video Receiver with Manual Gain Control

FVR21

INCLUDED HARDENED 2

The ComNet™ FVR21 dual video receiver detects two independent AM video signals in one module on two independent multimode fiber optic cables. The module is not a multiplexer. 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 Manual Gain Control. 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

› Compatible with FVT11M and FVT20

› NTSC, PAL, SECAM compatible

› Manual Gain Control

› 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

› 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.

› Automatic resettable fuses on all power lines

› Bi-Color (Red/Green) indicator to monitor system performance

› Hot-swappable rack modules

› Interchangeable between stand-alone or rack mount use – ComFit

› Units may be DIN-Rail mounted by the addition of ComNet model DINBKT1 or DINBKT4 adaptor plate

› Lifetime Warranty

APPLICATIONS

› CCTV (Fixed Video)

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SPECIFICATIONS

Video

Video Output	1 volt pk-pk (75 ohms)
Bandwidth	5 Hz - 10 MHz
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

Wavelength

FVR11	850 nm, Multimode

Number of Fibers

2

Connectors

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

Indicating LEDs

Video Present 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)[1]

AGENCY COMPLIANCE

MADE IN THE USA

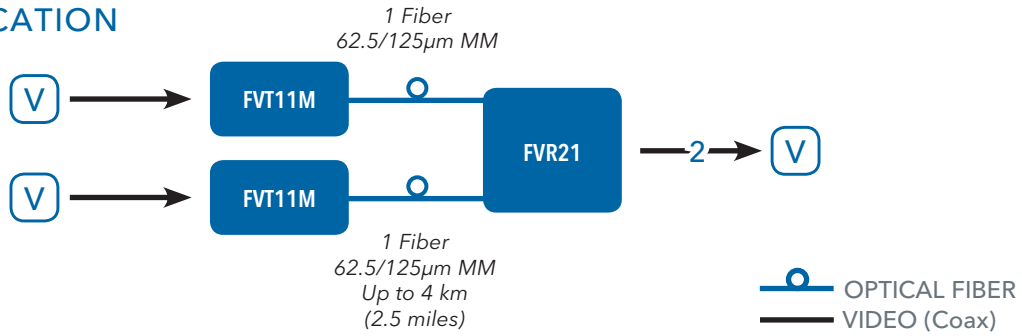
ORDERING INFORMATION

Part Number	Description	Fibers Required	Fiber	Optical PWR Budget	Maximum Distance[2]
FVR21	Dual Video Receiver (850 nm)	2	Multimode 62.5/125µm	14 dB	4 km (2.5 miles)
Accessories	DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included)				
Options	[1] 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)				

[2] 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



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