

dual independent am video receiver with automatic gain control (agc)



Description

The ComNet™ FVR22 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 smaller 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. 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.

Applications

- CCTV (Fixed Video)

PART NUMBER	FIBERS REQUIRED	FIBER
FVR22	2	Multimode 62.5/125µm

Features

- AM Video Receiver
- NTSC, PAL, SECAM compatible
- 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 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) indicating LED to monitor system performance
- Hot-Swappable rack modules
- Automatic resettable fuses on all power lines
- Lifetime Warranty

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

WAVELENGTH

FVR12	850 nm, Multimode
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NUMBER OF FIBERS

2

CONNECTORS

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

LED INDICATORS

Bi-Color (Red/Green)	- Received Video - Transmitted Video
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ELECTRICAL & MECHANICAL

Power:	8-13 VDC @ 120 mA
Surface Mount:	From Rack
Rack:	1
Number of Rack Slots:	Automatic Resettable
Current Protection:	Solid-State Current Limiters
Circuit Board:	Meets IPC Standard
Size (in./cm) (LxWxH)	6.1 x 5.3 x 1.1 in., (15.5 x 13.5 x 2.8 cm)
Surface Mount:	
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)†

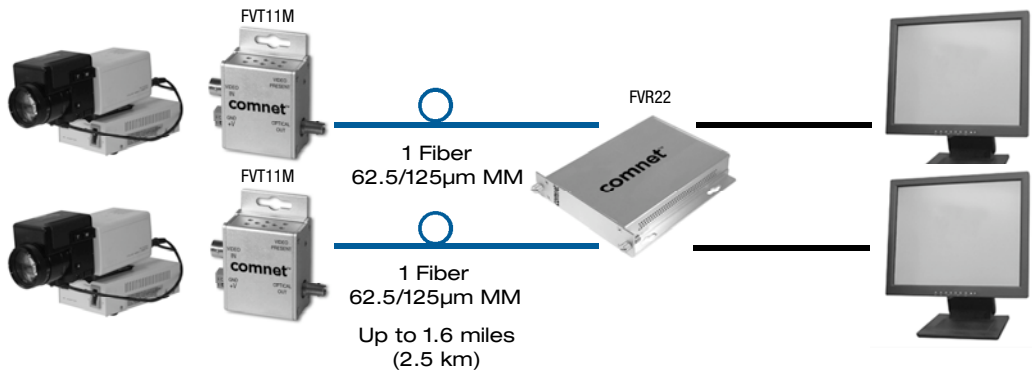
† May be extended to condensation conditions by adding suffix '-C' to model number for conformal coating.

FCC, CE, TUV COMPLIANCE PENDING



PART NUMBER	DESCRIPTION	FIBERS REQUIRED	FIBER	OPTICAL PWR BUDGET	MAX. DISTANCE*
FVR22	AGC Dual Video Receiver (850 nm)	2	Multimode 62.5/125µm**	10 dB	2.5 km (1.6 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)				

* Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels. Distance can also be limited by fiber bandwidth.
** For 50/125 fiber, subtract 4 dB from Optical Power Budget.



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.

— FIBER OPTIC CABLE
— VIDEO (Coax)