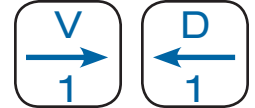


video with return data



## Description

The ComNet™ FVT15M2 video transmitter/data receiver and the FVR15M2 video receiver/data transmitter support the simultaneous transmission of video and return data over two multimode optical fibers. These modules are universally compatible with all major CCTV camera manufacturers and supports RS232 and RS422 data interfaces and all major data protocols. Plug-and-play design ensures ease of installation and no electrical or optical adjustments are ever required. Bi-color (Red/Green) LED indicators are provided for rapidly ascertaining equipment operating status. Packaged in the exclusive ComNet ComFit housing, these units may be either wall or rack-mounted, or may be DIN-rail mounted by the addition of ComNet model DINBKT1 adaptor plate.

## Features

- AM Video Transmission and Reception
- NTSC, PAL, or SECAM compatible
- Full Color Compatibility
- NTCIP Compatible
- Supports RS232 or RS422 Data interfaces
- Transparent to data encoding/compatible with major CCTV camera manufacturers
- No In-field electrical or optical adjustments
- Bi-color (Red/Green) LED status indicators provide rapid indication of critical operating parameters
- Distances up to 1.5 miles (2.5 km) without repeaters
- Voltage transient protection on all power and signal input/output lines provides unconditional protection from power surges and other voltage transient events.
- Tested and certified by an independent laboratory for 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.
- Hot-swappable rack modules
- Interchangeable between stand-alone or rack mount use
  - ComFit
- Automatic resettable fuses on all power lines
- Lifetime Warranty

## Applications

- CCTV with one-way PTZ Camera Control
- CCTV with Remote Signalization



## specifications

### VIDEO

Video Input:	1 volt pk-pk (75 ohms)
Bandwidth:	5 Hz - 10 MHz
Differential Gain:	<5%
Differential Phase:	<5°
Tilt:	<1%
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

### DATA

Data Format:	RS232, RS422, Manchester, bi-phase
Data Rate:	DC-115 Kbps (NRZ)

### WAVELENGTH

850 nm

### NUMBER OF FIBERS

2

### LED INDICATORS\*

- Video Present
- Transmit Data
- Receive Data

### CONNECTORS

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

### ELECTRICAL & MECHANICAL

Power:	8-15 VDC @ 250 mA
Surface Mount:	From Rack
Rack Mount:	FVT: 1, FVR: 1
Number of Rack Slots:	Automatic Resettable Solid-State Current Limiters
Current Protection:	Meets IPC Standard
Circuit Board:	6.1 × 5.3 × 1.1 in., (15.5 × 13.5 × 2.8 cm)
Size (in./cm) (L×W×H):	<4 lb./1.8 kg
Shipping Weight:	

### ENVIRONMENTAL

MTBF:	>100,000 hours
Operating Temp:	-40° C to +75° C
Storage Temp:	-40° C to +85° C
Heat Generation:	10 BTU
Relative Humidity:	0% to 95% (non-condensing)*

\* 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 <sup>†</sup>	# RACK SLOTS
FVT15M2	Video Transmitter/Data Receiver (850 nm)	2	Multimode <sup>‡</sup> 62.5/125µm	10 dB	2.5 km (1.5 miles)	1
FVR15M2	Video Receiver/Data Transmitter (850 nm)					
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)					
	DIN-Rail Mounting Adaptor Plate Kit – With mounting hardware (Optional, order model DINBKT1)					

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

<sup>†</sup> Distance may be limited by optical dispersion. <sup>‡</sup> For 50/125µm fiber, subtract 4 dB from the 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.

