POWER SUPPLY	75° -40°	DATA	VIDEO
INCLUDED	HARDENED	1	1

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 protection from power surges and other voltage transient events.

› 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.

› 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

* Small Form-Factor Pluggable Module. Sold separately.

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

Indicating LEDs

- Video Present
- Transmit Data
- Receive Data

Connectors

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

Power

Surface Mount	8 to 15 VDC
Power Consumption	4 W

Electrical & Mechanical

Rack Mount	From Rack
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	<4 lb./1.8 kg

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)

[1] May be extended to condensation conditions by adding suffix '/C' to model number for conformal coating.

AGENCY COMPLIANCE

FC PART 15 COMPLIANT   CE   cULus E322911   RoHS COMPLIANT   N24621

MADE IN THE USA

INCLUDED IN KIT

Part Number	Wavelength	Connector	Fibers Required	Fiber	Optical Power Budget	Max. Distance[3]
FVT15M2	Mini Video Transmitter	ST	2	Multimode	10 dB	2.5 km (1.5 mi)
FVR15M2	AGC Mini Video Receiver	ST	2	Multimode	10 dB	2.5 km (1.5 mi)
Accessories	DC Plug in Power Supply, 90-264VAC, 50/60Hz (Included)					
Options	[1] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)					

[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

LEGEND
— VIDEO (COAX)
—o— OPTICAL FIBER

🍃 Low Power Consumption

08 Apr 2014