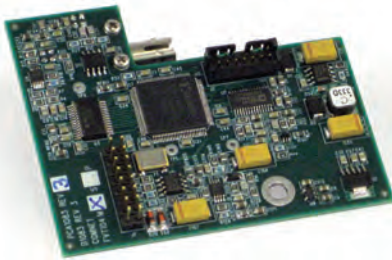




FOR PELCO® SPECTRA III/IV CAMERAS



The ComNet™ FVT1031/P series video transmitter, along with the ComNet FVR1031 series receiver, supports simultaneous broadcast-quality video transmission of 10-bit digital video and bi-directional RS422 data over one multimode or single mode optical fiber. The FVT1031/P is designed to plug directly into the Pelco Spectra III/IV dome, and connects with power, video input and two way data via the Pelco electrical connector.

## FEATURES

- › 10-bit digital video transmission
- › Exceeds all requirements for RS-250C short-haul transmission
- › Compatible with Pelco Spectra III/IV dome cameras
- › 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.
- › Distances up to 60 km (37 mi)
- › Designed for internal mounting within a Pelco Spectra dome
- › Lifetime Warranty

## APPLICATIONS

- › High-Performance CCTV with PTZ Control

## SPECIFICATIONS

## Video

Video Input	1 volt pk-pk (75 ohms)
Overload	>1.5V pk-pk
Bandwidth	5 Hz - 6.5 MHz
Differential Gain	<2%
Differential Phase	<0.7°
Tilt	<1%
Signal-to-Noise Ratio (SNR)	67 dB @ Maximum Optical Loss Budget
Max. RG-59 COAX Distance	100 m (300 ft) Camera to Fiber Optic Module to maintain 6 Mhz Bandwidth

## Data

Data Format	RS-422
Data Rate	DC-115 Kbps (NRZ)

## Wavelength

1310/1550 nm, MM and SM

## Number of Fibers

1

## Optical Emitter

Laser Diode

## Optical Connectors

ST

## Power

Operating Voltage	8 to 15 VDC, 80 mA from Dome
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## Electrical &amp; Mechanical

Current Protection	Automatic Resettable Solid-State Current Limiters
Circuit Board	Meets IPC Standard
Size	4.0 × 2.5 in (10.16 × 6.4 cm)
Shipping Weight	<0.5 lb / 0.225 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) <sup>1</sup>

AGENCY COMPLIANCE

MADE IN THE  
**USA**

## ORDERING INFORMATION

Part Number	Description	Fiber	Optical PWR Budget	Maximum Distance <sup>2</sup>
FVT1031M1/P	Video Transmitter/Data Transceiver	Multimode 62.5/125µm	16 dB	3 km (2 miles)
FVR1031M1	Video Receiver/Data Transceiver	Multimode 62.5/125µm	16 dB	3 km (2 miles)
FVT1031S1/P	Video Transmitter/Data Transceiver	Single Mode 9/125µm	20 dB	60 km (37 miles)
FVR1031S1	Video Receiver/Data Transceiver	Single Mode 9/125µm	20 dB	60 km (37 miles)
Options	[1] Add suffix 'C' for Conformally Coated Circuit Boards to extend to condensation conditions (extra charge, consult factory)			

[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

