



The ComNet™ FVT1031(M,S)1-P series video transmitter along with the ComNet™ FVR1031 series receiver supports simultaneous broadcast-quality video transmission of 10-bit digitally encoded video and return RS422 or Extended Distance Coaxitron data over one multimode or single mode optical fiber. The unit is designed to plug directly into the Pelco SpectraDome series, connecting power, video input and data via the Pelco electrical connector.

FEATURES

- › 10-bit digitally encoded video transmission
- › Exceeds all requirements for RS-250C short-haul transmission
- › Supports over-the-coax data transmission utilizing time-based correction to achieve distances up to 60 km
- › Voltage transient protection on all power and signal input/output lines provides protection from power surges and other voltage transient events

- › Designed to be internally mounted within a Pelco SpectraDome camera housing
- › Lifetime Warranty

APPLICATIONS

- › High-Performance CCTV with PTZ Control

SPECIFICATIONS

Video

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

Data

Data Interface	RS422, UTC (Up-the-Coax)
Data Rate	DC-250 Kbps (NRZ)

Wavelength

1310/1550 nm, MM and SM

Number Of Fibers

1

Optical Emitter

Laser Diode

Optical Connector

ST

Power

Operating Voltage Range	8 to 15 VDC
Power Consumption	2W

Electrical & Mechanical

Overload Protection	Automatic Resettable Solid-State Current Limiters
Size (L x W x H)	4.0 x 2.5 in (10.16 x 6.4 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



ORDERING INFORMATION

Part Number	Description	Fibers Required	Fiber	Optical Pwr Budget	Max. Distance
FVT1031M1-P	Video Transmitter/Data Transceiver	1	Multimode	16dB	3 km (2 mi)
FVR1031M1	Video Receiver/Data Transceiver				
FVT1031S1-P	Video Transmitter/Data Transceiver	1	Single Mode	20dB	60 km (37 mi)
FVR1031S1	Video Receiver/Data Transceiver				
Options	[1] Add suffix 'C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)				

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

