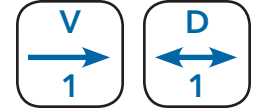


Vicon in-dome transmitter and receiver with 10-bit digitally encoded video with Vicoax "Up-the-Coax" or bi-directional data (RS232, RS422, RS485 2/4W)



VICOAX™



FVR109A
Receiver

FVTVEND
In Dome Transmitter

Description

The ComNet™ FVTVEND and FVR109A are a video transmitter/data transceiver and video receiver/data transceiver series that supports the simultaneous transmission of short haul quality 10-bit EIA RS-250C digitally encoded video and bi-directional data over one multimode or single mode optical fiber. The FVTVEND is designed to be internally mounted in and powered by the Vicon Dome camera. It supports Vicon Vicoax™ "up-the-coax" data transmission, achieving distances of 600m. It also supports bi-directional serial camera control. Packaged in the exclusive ComNet ComFit housing, the full-size receiver units may be either wall or rack-mounted, or may be DIN-rail mounted by the addition of ComNet model DINBKT1 adaptor plate.

Features

- Supports Vicon Vicoax™ up-the-coax systems
- 10-bit digitally encoded video
- 1 bi-directional data channel
- Distances up to 30 miles (48 km)
- Vicoax distance to 600m (2000 ft)
- Exceeds all requirements for RS-250C short-haul transmission: True broadcast 10-bit digitally encoded video performance
- Compatible with all NTSC, PAL, or SECAM CCTV camera systems
- 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.
- Voltage transient protection on all power and signal input/output lines provides unconditional protection from power surges and other voltage transient events.
- Automatic resettable fuses on all power lines
- Bi-color (Red/Green) LED status indicators provide rapid indication of critical operating parameters
- 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 - 10 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: 100m (300ft) Camera to Fiber Optic Module to maintain 10Mhz Bandwidth

DATA

Data Interface: RS232, RS422 and RS485 (2W/4W), UTC (Up-the-Coax)

Data Rate: DC-250 Kbps (NRZ)
 WAVELENGTH: 1310/1550 nm, MM and SM

NUMBER OF FIBERS

OPTICAL EMITTER: Laser Diode
 LED INDICATORS: - Link - Video - Data

CONNECTORS

Optical: 1 ST connector
 Power: Terminal Block
 Video: BNC (Gold Plated Center-Pin)
 Data: Terminal Block

ELECTRICAL & MECHANICAL (FVR109A Receiver)

Power:
 Surface Mount: 8-15 VDC @ 350 mA
 Rack Mount: From Rack
 Rack Slots: 1
 Current Protection: Automatic Resettable 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)
 Shipping Weight: <2 lb./0.9 kg

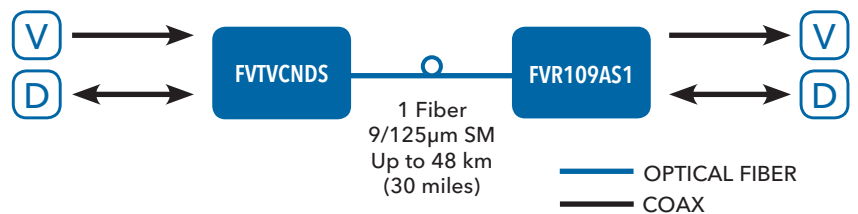
ENVIRONMENTAL

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.



PART NUMBER	DESCRIPTION	FIBERS REQ'D	FIBER	OPTICAL PWR BUDGET	MAX. DISTANCE†	# RACK SLOTS
FVTVNCNDM	Mini Video Transmitter/Data Transceiver	1	Multimode 62.5/125µm	16 dB	3 km (2 mi)	(in-dome)
FVR109AM1	Video Receiver/Data Transceiver					1
FVTVNCNDS	Mini Video Transmitter/Data Transceiver	1	Single Mode 9/125µm	16 dB	48 km (30 mi)	(in-dome)
FVR109AS1	Video Receiver/Data Transceiver					1
Accessories	9 Volt DC Plug-in Power Supply, 90-264 VAC, 50/60 Hz (Included with FVRVCN receiver)					
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) - compatible only with FVRVCN receiver					

NOTE: This product requires a fiber installation with a minimum 35 dB connector return loss. The use of Super Polish Connectors is recommended.
 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.
 †Distance may be limited by optical dispersion.



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