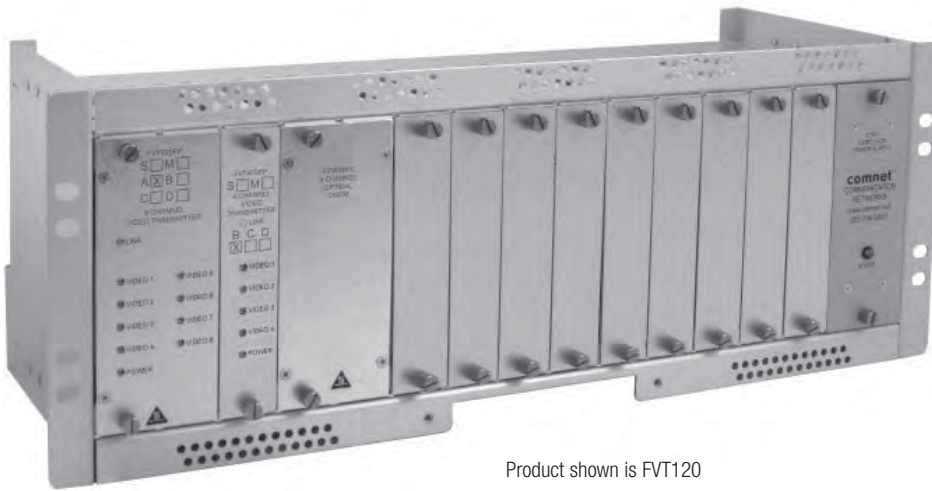


24-channel digital video 10-bit digital/short-haul video



Product shown is FVT120



Description

The ComNet™ FVT/FVR240S1 series video transmitter and video receiver utilize 10-bit digital encoding and decoding for high-quality video transmission that exceeds the requirements of EIA RS-250C for short-haul video transmission. These environmentally hardened units provide transmission of 24 independent video channels over one optical fiber and are ideal for use in unconditioned roadside or out-of-plant installations. These units are completely transparent to and universally compatible with any NTSC, PAL, or SECAM CCTV camera systems. 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.

Features

- 10-Bit digitally encoded video transmission, transmits 24 real-time/full frame color video signals
- Exceeds all requirements for EIA RS-250C short-haul transmission: Extremely high video performance
- Exceptionally low video distortion with zero Performance Variation vs. Optical Path Loss
- 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.
- Robust design ensures extremely high reliability in unconditioned out-of-plant environments
- Bi-color (Red/Green) LED status indicators provide rapid indication of critical operating parameters
- Lifetime Warranty

Applications

- High-Performance CCTV Systems



specifications

VIDEO

Video Input: 1 volt pk-pk (75 ohms)
 Overload: >1.5V pk-pk
 # Input/Output Channels: 24
 Bandwidth (minimum): 10 Hz - 6.5 MHz per channel
 Differential Gain: <2%
 Differential Phase: <0.7°
 Tilt: <1%
 Signal-to-Noise Ratio (SNR): 67 dB Typical
 Max. RG-59 COAX Distance: 100m (300ft) Camera to Fiber Optic Module to maintain 6Mhz Bandwidth

WAVELENGTH

Single Mode 9/125µm

NUMBER OF FIBERS 1

LED INDICATORS

- Video Sync Presence for Each Video Channel
 - Optical Carrier Detect - Power

OPTICAL EMITTER

Laser Diode

CONNECTORS

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

ELECTRICAL & MECHANICAL

Power:
 Input Voltage: 90-264 VAC @ 70 W Maximum
 Output Voltage: 9 VDC +/- 5% @ 6.5 Amps @ 75°C

FUSING

1.25 A slow blow (rack power supply)
 (plug-in modules individually electronically fused)

Current Protection: Automatic Resettable Solid-State Current Limiters

Circuit Board: Meets IPC Standard

Size (in./cm) (LxWxH) 19 x 7.5 x 6 in., (48 x 19 x 15 cm)

Shipping Weight: <8 lbs./3.6 kg

ENVIRONMENTAL

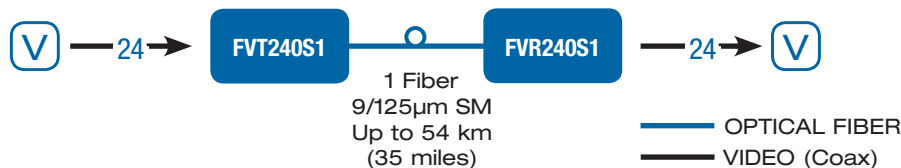
MTBF: >100,000 hours
 Operating Temp: -40° C to +75° C
 Storage Temp: -40° C to +85° C
 Relative Humidity: 0% to 95% (non-condensing)*

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



| PART NUMBER | DESCRIPTION | FIBERS REQUIRED | FIBER | OPTICAL PWR BUDGET | MAX. DISTANCE† |
|-------------|-------------------|-----------------|---------------------|--------------------|------------------|
| FVT240S1 | Video Transmitter | 1 | Single Mode 9/125µm | 18 dB | 54 km (35 miles) |
| FVR240S1 | Video Receiver | | | | |

NOTE: This product requires a fiber installation with a minimum 30 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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