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Communication Networks

INSTALLATION AND OPERATION MANUAL

FVT/FVR401
4-CHANNEL DIGITAL VIDEO MULTIPLEXER
10-BIT DIGITAL/SHORT-HAUL

The ComNet™ FVT/FVR401 multiplexer simultaneously transmits four channels of video over one optical fiber utilizing state-of-the-art 10-bit digital encoding and decoding for high-quality video transmission that meets the requirements of EIA RS-250C for short-haul video transmission. These environmentally hardened units 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 LED indicators are provided to indicate the status of the system, video and data. See **Figure 4** on **Page 3** for LED indication explanations.

These units may be directly plugged into the ComNet Rack (Part C1) or they can operate as standalone modules. See **Figure A** on **Page 4** for mounting instructions.

See **Figures 1 – 4** for complete installation details. No additional parts or power supplies are required.
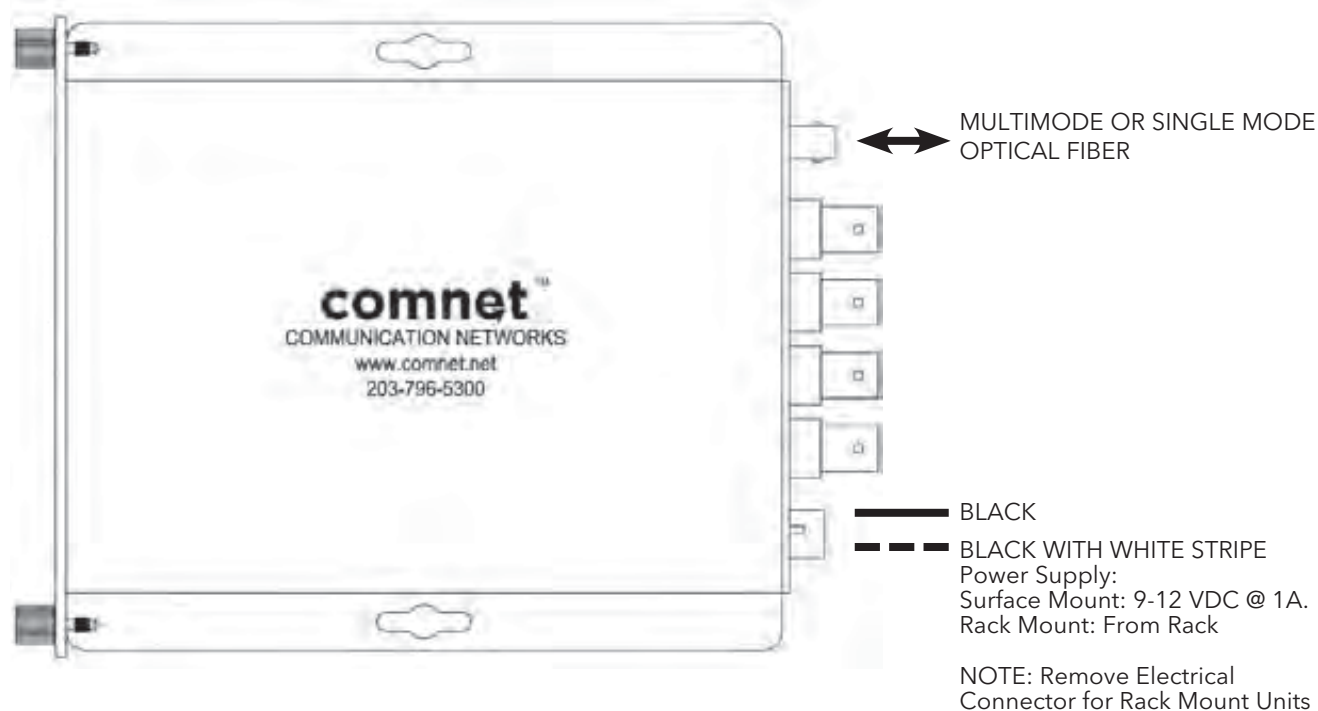
FIGURE 1 – FVT/FVR401 TRANSMITTER AND RECEIVER

MULTIMODE OR SINGLE MODE OPTICAL FIBER

BLACK

BLACK WITH WHITE STRIPE
Power Supply:
Surface Mount: 9-12 VDC @ 1A.
Rack Mount: From Rack

NOTE: Remove Electrical Connector for Rack Mount Units

FIGURE 2 – FVT401 TRANSMITTER

FRONT PANEL   REAR PANEL
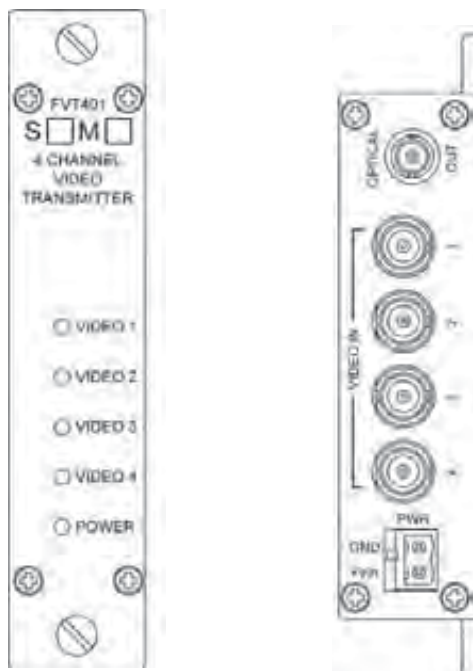
FIGURE 3 – FVR401 RECEIVER

FRONT PANEL   REAR PANEL
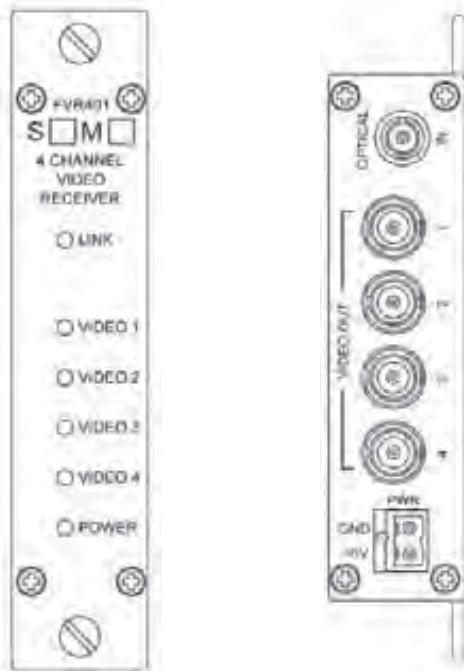
FIGURE 4 – LED INDICATORS

	LINK	**VIDEO (1 – 4)**	**POWER**
GREEN	Communication link has been established over optical fiber	Active video signal present on the BNC connector.	Unit powered up
RED	Communication link has not been established	No video signal	–
OFF	Not powered up correctly	–	Unit powered down

TECH SUPPORT: 1.888.678.9427

MECHANICAL INSTALLATION INSTRUCTIONS

INSTALLATION CONSIDERATIONS
This fiber-optic link is supplied as a Standalone/Rack module. Units should be installed in dry locations protected from extremes of temperature and humidity.

C1-US, C1-EU, C1-AU OR C1-CH CARD CAGE RACKS

CAUTION: Although the units are hot-swappable and may be installed without turning power off to the rack, ComNet recommends that the power supply be turned off and that the rack power supply is disconnected from any power source. **Note:** Remove electrical connector before installing in card cage rack.

1. Make sure that the card is oriented right side up, and slide it into the card guides in the rack until the edge connector at the back of the card seats in the corresponding slot in the rack's connector panel. Seating may require thumb pressure on the top and bottom of the card's front panel.

CAUTION: Take care not to press on any of the LEDs.

2. Tighten the two thumb screws on the card until the front panel of the card is seated against the front of the rack.

WARNING: Unit is to be used with a Listed Class 2 or LPS power supply

IMPORTANT SAFEGUARDS:
A) **Elevated Operating Ambient** - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

B) **Reduced Air Flow** - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

FIGURE A
Dimensions are for a standard ComNet™ two slot module
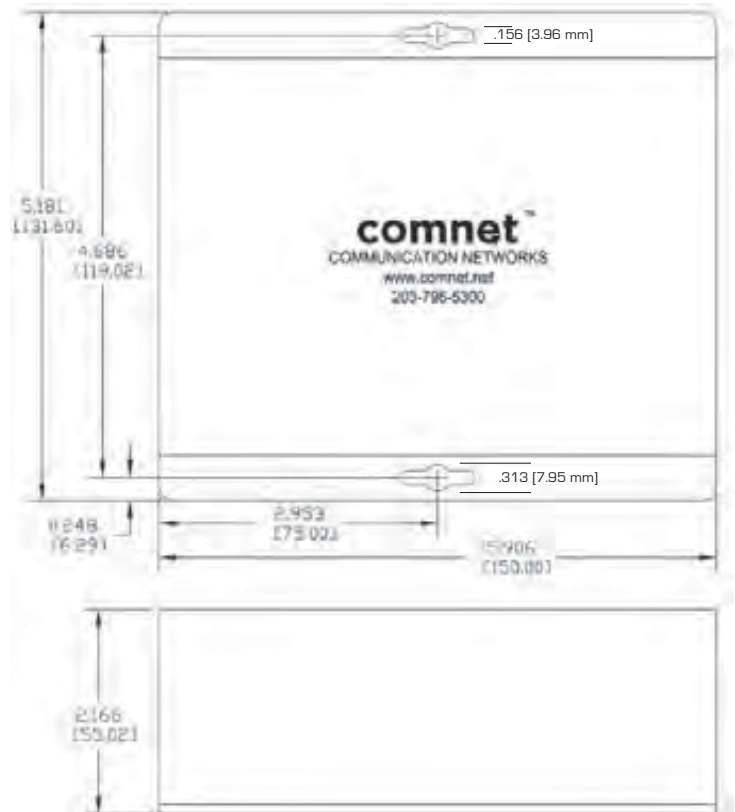
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