



GENERAL DESCRIPTION

VERSITRON FVT1000 and FVR1000 Series Fiber Optic Video Modems are used to extend a frequency modulation (FM) video signal over a single fiber optic cable. These modems provide high quality transmission of one channel simplex video at distances to 3km using multimode fiber and distances to 30 km using singlemode fiber. A BNC connector provides the copper interface for the video input/output. ST and SC optical connectors are standard for the fiber optic interface. The FVT1000 and FVR1000 video modems are completely compatible with the NTSC, PAL, or SECAM video standards.

The FVT1000 transmitter and FVR1000 receiver modems are available as standalone devices for easy plug and play installation. In addition, the FVR1000 receiver modems can be ordered as circuit card modules for installation in the Model FVC14 rack-mount chassis. The 14-slot chassis fits in a standard 19" rack and is offered with either 110VAC or 220VAC power supplies.

FEATURES

VERSITRON FVT1000 and FVR1000 Series Fiber Optic Video Modems utilize APC circuitry while maintaining stable optical power output. The fiber optic link established between the transmitter and receiver devices insures immunity from EMI, RFI, and ground loops. AD, Pelco, Phillips, and Vicon Communication protocols are supported. The modems' plug and play design requires no user adjustments.

LED status indicators include video sync present (VIDEO) and power on (POWER).

SELECTION GUIDE

| | Transmitters | | |
|-------------------------|---------------------|-----------|-----------|
| Model □ | FVT1003 | FVT1004 | FVT1005 |
| Fiber/Wavelength | MM/1310nm | MM/1310nm | SM/1310nm |
| Distance | 3km | 3km | 30km |
| Connector | ST | SC | SC |

| | Receivers (Standalone) | | |
|-------------------------|-------------------------------|-----------|-----------|
| Model □ | FVR1003 | FVR1004 | FVR1005 |
| Fiber/Wavelength | MM/1310nm | MM/1310nm | SM/1310nm |
| Distance | 3km | 3km | 30km |
| Connector | ST | SC | SC |

| | Receiver Modules* | | |
|-------------------------|--------------------------|-----------|-----------|
| Model □ | FVR1003M | FVR1004M | FVR1005M |
| Fiber/Wavelength | MM/1310nm | MM/1310nm | SM/1310nm |
| Distance | 3km | 3km | 30km |
| Connector | ST | SC | SC |

*Modules are installed in Model FVC14 chassis.

| Model # | Description | Weight |
|----------------|--|-------------------|
| FVC14-110 | 14-slot, 19" rack-mount chassis, 110VAC Dimensions: | 14lbs. (6.3kg) |
| FVC14-220 | 14-slot, 19" rack-mount chassis, 220VAC Dimensions: | 15lbs. (6.8kg) |

SPECIFICATIONS

| | | |
|------------------------------|---|---|
| General Model □ | FVT1003/FVR1003/FVT1004/ FVR1004/FVT1005/FVR1005 | FVR1003M/FVR1004M/ FVR1005M |
| Dimensions | 7.5"L x 6.3"W x 1.2"H (19L x 16W x 3.2H cm) | 7.5"L x 5.1"W x 1.0"H (19L x W x H cm) |
| Weight | 0.5kg 1.1lb | .18kg 0.4lb |
| Operating Temperature | -30°C to +50°C | |
| Storage Temperature | -40°C to +85°C | |
| Humidity | 0% to 95% non-condensing | |
| Altitude | Up to 10,000 feet | |

ELECTRICAL INTERFACE

| | |
|------------------------------|--------------------------|
| Power Requirements | +9VDC@650mA; -9VDC@100mA |
| Video Impedance | 75ohm |
| Video Input | 1 Volt peak to peak |
| Bandwidth | 5Hz to 8MHz |
| Differential Gain | <3% |
| Differential Phase | <3° |
| Tilt | <1% |
| Signal-to-Noise Ratio | 60dB |
| FM Carrier Technology | 70Hz to 150Hz |
| Connector | BNC |
| Power Consumption | 7W(max) |

FIBER OPTIC INTERFACE

| Model | FVT1003/FVR1003/ FVR1003M | FVT1004/FVR1004 FVR1004M | FVT1005/FVR1005 FVR1005M |
|------------------------|------------------------------|-----------------------------|-----------------------------|
| Wavelength | 1310nm multimode | 1310nm multimode | 1310nm singlemode |
| Connector | ST | SC | SC |
| Link Budget | 20dB | 20dB | 25dB |
| Operating Range | 3km | 3km | 30km |

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