



**KEY FEATURES**

- 8-Bit Uncompressed Video Transmission
- NTSC, PAL or SECAM Camera System Compatible
- Transmit up to 30km without Optical Attenuation
- Simultaneous Video and Data Transmission
- WDM for Highest Quality Video Transmission
- Wide Optical Dynamic Range
- No EMI, RFI, Cross Talk and Video Distortion
- No Electrical or Optical Adjustments Required
- LED Indicators for Instant System Monitoring
- Standalone or Rack Mount

**DESCRIPTION**

The VERSITRON *VersiVision* Series multiplexers simultaneously transmit four channels of 8-bit digitally encoded broadcast quality video and return data over one multimode or singlemode optical fiber. The modules are compatible with NTSC, PAL and SECAM CCTV camera systems and support RS-232, RS-422 and RS-485 data protocols. These multiplexers are typically used in applications where the cameras have P/T/Z capabilities. Plug and Play design ensures adjustment-free installation and operation. LED Indicators are provided for instantly monitoring system status. A typical installation utilizes a 4-channel *transmitter* unit at the camera end of the link, connected via a single fiber optic cable, to a 4-channel *receiver* unit at the monitoring end of the link. Devices are available for either standalone or rack-mount installation.

| Model    | Function    | Connector  | Fiber Cable | Wavelength  | Max Distance |
|----------|-------------|------------|-------------|-------------|--------------|
| FVTM4403 | Transmitter | ST Simplex | MM          | 850/1310nm  | 3 Km         |
| FVRM4403 | Receiver    | ST Simplex | MM          | 850/1310nm  | 3 Km         |
| FVTM4404 | Transmitter | SC Simplex | MM          | 850/1310nm  | 3 Km         |
| FVRM4404 | Receiver    | SC Simplex | MM          | 850/1310nm  | 3 Km         |
| FVTM4405 | Transmitter | SC Simplex | SM          | 1310/1550nm | 30 Km        |
| FVRM4405 | Receiver    | SC Simplex | SM          | 1310/1550nm | 30 Km        |



**SPECIFICATIONS**

|   |  |   |  |
|---|--|---|--|
| <p><b>VIDEO</b></p> <p>Video Input: 1 volt pk-pk (75 ohms)</p> <p>Input/Output Channels: 4</p> <p>Bandwidth: 5 Hz - 8 MHz</p> <p>Bit Resolution: 8-bit</p> <p>Differential Gain: &lt; 2%</p> <p>Differential Phase: &lt; 0.6°</p> <p>Tilt: &lt; 1%</p> <p>S/N Ratio: 67dB (Weighed)</p> |  | <p><b>OPTICAL EMITTER</b></p> <p>Laser Diode</p> <p>Number of Fibers: 1</p>   |  |
| <p><b>DATA</b></p> <p>Data Interface: RS-485, RS-422, RS-232</p> <p>Data Rate: 100Kbps</p> <p>Bit Error Rate: 10<sup>-9</sup></p>   |  | <p><b>CONNECTORS</b></p> <p>Optical SC, ST (FC Optional)</p> <p>Video BNC</p> <p>Data Shielded RJ-45 Plug</p>   |  |
| <p><b>WAVELENGTH</b></p> <p>Multimode: 850/1310nm</p> <p>Singlemode: 1310/1550nm</p>  |  | <p><b>GENERAL</b></p> <p>Power Supply: DC12V @ 600mA</p> <p>Size: 7.67 x 7.52 x 1.42 Inches</p> <p>Construction: Aluminum</p> <p>Finish: Paint</p> <p>MTBF: &gt; 100,000 hours</p> <p>Operating Temp: -30° C to +50° C</p> <p>Storage Temp: -40° C to +85° C</p> <p>Relative Humidity: 0% to 95% (non condensing)</p> |  |

**TYPICAL INSTALLATION**

