



**KEY FEATURES**

- 8-Bit Uncompressed Video Transmission
- 24-Bit Digitally Encoded Stereo Audio Transmission
- Supports RS-232, RS-422, and RS-485 Data Protocols
- WDM Technology for Higher Reliability
- Compatible with NTSC, PAL or SECAM CCTV
- No EMI, RFI, Cross Talk, and Ground Loop
- No Electrical or Optical Adjustments Required
- LED Indicators for Instant System Monitoring
- Standalone or Rack Mount
- Transmit up to 30 Km without Optical Attenuation
- Simultaneous Transmission of Video, Data & Audio

**DESCRIPTION**

The VERSITRON *VersiVision* Series multiplexers simultaneously transmit four channels of 8-bit digitally encoded broadcast quality video, bi-directional data and forward audio over one multimode or singlemode optical fiber. The units are directly compatible with NTSC, PAL, and SECAM camera systems and support RS-232, RS-422, and RS-485 data protocols. These units are typically used in applications where the cameras can transmit and receive data, and also send forward audio. Plug and Play design ensures adjustment-free installation and operation, and optical adjustments are never required. LED indicators are provided to instantly monitor the system operating 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
FVTM4B23	Transmitter	ST Simplex	MM	850/1310nm	3 Km
FVRM4B23	Receiver	ST Simplex	MM	850/1310nm	3 Km
FVTM4B24	Transmitter	SC Simplex	MM	850/1310nm	3 Km
FVRM4B24	Receiver	SC Simplex	MM	850/1310nm	3 Km
FVTM4B25	Transmitter	SC Simplex	SM	1310/1550nm	30 Km
FVRM4B25	Receiver	SC Simplex	SM	1310/1550nm	30 Km



**SPECIFICATIONS**

<p><b>VIDEO</b></p> <p>Video Input: 1 volt pk-pk (75 ohms)          Input/Output Channels: 4          Bandwidth: 5 Hz - 8 MHz          Bit Resolution: 8-bit          Differential Gain: &lt; 2%          Differential Phase: &lt; 0.6°          Tilt: &lt; 1%          S/N Ratio: 67dB (Weighed)</p>		<p><b>WAVELENGTH</b></p> <p>Multimode: 850/1310nm          Singlemode: 1310/1550nm</p>	
<p><b>DATA</b></p> <p>Data Interface: RS-232, RS-422, RS-485          Data Channels: 2          Data Rate: 100Kbps          Bit Error Rate: 10<sup>-9</sup></p>		<p><b>OPTICAL EMITTER</b></p> <p>Laser Diode          Number of Fibers: 1</p>	
<p><b>AUDIO</b></p> <p>Audio Impedance: 600 Ω          Audio Channels: 2          Input/Output Level: 0dBm (Typical)          Frequency Response: 10Hz-20KHz          Bit Resolution: 24-bit          S/N Ratio: 88dB</p>		<p><b>CONNECTORS</b></p> <p>Optical: SC, ST (FC Optional)          Video: BNC          Data/Audio: Shielded RJ-45 Plug</p>	
		<p><b>GENERAL</b></p> <p>Power Supply: 12VDC @ 600mA          Size: 7.68 x 7.52 x 1.42 Inches          Construction: Aluminum          Finish: Paint          MTBF: &gt; 100,000 hours          Operating Temp: -30° C to +50° C          Storage Temp: -40° C to +85° C          Relative Humidity: 0% to 95% (non condensing)</p>	

**TYPICAL INSTALLATION**

