



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 two channels of bi-directional 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 and can also transmit forward data to the monitoring location. 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
FVTM4B03	Transmitter	ST Simplex	MM	850/1310nm	3 Km
FVRM4B03	Receiver	ST Simplex	MM	850/1310nm	3 Km
FVTM4B04	Transmitter	SC Simplex	MM	850/1310nm	3 Km
FVRM4B04	Receiver	SC Simplex	MM	850/1310nm	3 Km
FVTM4B05	Transmitter	SC Simplex	SM	1310/1550nm	30 Km
FVRM4B05	Receiver	SC Simplex	SM	1310/1550nm	30 Km



SPECIFICATIONS

<p>VIDEO</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: < 2%</p> <p>Differential Phase: < 0.6°</p> <p>Tilt: < 1%</p> <p>S/N Ratio: 67dB (Weighed)</p>		<p>OPTICAL EMITTER</p> <p>Laser Diode</p> <p>Number of Fibers: 1</p>	
<p>DATA</p> <p>Data Interface: RS-485, RS-422, RS-232</p> <p>Data Channel: 2</p> <p>Data Rate: 100Kbps</p> <p>Bit Error Rate: 10⁻⁹</p>		<p>CONNECTORS</p> <p>Optical SC, ST (FC Optional)</p> <p>Video BNC</p> <p>Data Shielded RJ-45 Plug</p>	
<p>WAVELENGTH</p> <p>Multimode 850/1310nm</p> <p>Singlemode 1310/1550nm</p>		<p>GENERAL</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: > 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

