



KEY FEATURES

- 8-Bit Uncompressed Video Transmission
- 24-Bit Digitally Encoded Stereo Audio Transmission
- NTSC, PAL or SECAM Camera System Compatible
- Transmit up to 30km without Optical Attenuation
- Simultaneous Transmission of Video and Data
- WDM for Highest Quality Video Transmission
- 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 two channels of 8-bit digitally encoded broadcast quality video, bi-directional data and 24-bit digitally encoded bi-directional audio over one multimode or singlemode optical fiber. The modules are directly compatible with NTSC, PAL or 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 can transmit and receive data and audio. Plug and Play design ensures the ease of installation and operation and electronic and optical adjustments are never required. The units incorporate LED indicators for monitoring the power and video operating status. A typical installation utilizes a 2-channel *transmitter* unit at the camera end of the link, connected via a single fiber optic cable, to a 2-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
FVTM2AA3	Transmitter	ST Simplex	MM	850/1310nm	3 Km
FVRM2AA3	Receiver	ST Simplex	MM	850/1310nm	3 Km
FVTM2AA4	Transmitter	SC Simplex	MM	850/1310nm	3 Km
FVRM2AA4	Receiver	SC Simplex	MM	850/1310nm	3 Km
FVTM2AA5	Transmitter	SC Simplex	SM	1310/1550nm	30 Km
FVRM2AA5	Receiver	SC Simplex	SM	1310/1550nm	30 Km

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FEB2006 FVxM2AAx
2-CHNL VIDEO/
BI-DI DATA AND
BI-DI AUDIO MUX



SPECIFICATIONS

<p>VIDEO</p> <p>Video Input: 1 volt pk-pk (75 ohms)</p> <p>Input/Output Channels: 2</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>WAVELENGTH</p> <p>Multimode 850/1310nm</p> <p>Singlemode 1310/1550nm</p>	
<p>DATA</p> <p>Data Interface: RS-232, RS-422, RS-485</p> <p>Data Rate: 100Kbps</p> <p>Bit Error Rate: 10⁻⁹</p>		<p>OPTICAL EMITTER</p> <p>Laser Diode</p> <p>Number of Fibers: 1</p>	
<p>AUDIO</p> <p>Audio Impedance 600 Ω</p> <p>Input/Output Level 0dBm (Typical)</p> <p>Frequency Response 10Hz-20KHz</p> <p>Bit Resolution 24-bit</p> <p>S/N Ratio 88dB</p>		<p>CONNECTORS</p> <p>Optical SC, ST (FC Optional)</p> <p>Video BNC</p> <p>Data/Audio Shielded RJ-45 Plug</p>	
		<p>GENERAL</p> <p>Power Supply: 12VDC @ 500mA</p> <p>Size: 7.68 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

