



**KEY FEATURES**

- 8-Bit Uncompressed Video 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 and bi-directional data 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 have P/T/Z capabilities. 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
FVTM2A03	Transmitter	ST Simplex	MM	850/1310nm	3 Km
FVRM2A03	Receiver	ST Simplex	MM	850/1310nm	3 Km
FVTM2A04	Transmitter	SC Simplex	MM	850/1310nm	3 Km
FVRM2A04	Receiver	SC Simplex	MM	850/1310nm	3 Km
FVTM2A05	Transmitter	SC Simplex	SM	1310/1550nm	30 Km
FVRM2A05	Receiver	SC Simplex	SM	1310/1550nm	30 Km



## SPECIFICATIONS

<b>VIDEO</b>		<b>OPTICAL EMITTER</b>	
Video Input:	1 volt pk-pk (75 ohms)	Laser Diode	
Input/Output Channels:	2	Number of Fibers:	1
Bandwidth:	5 Hz - 8 MHz	<b>CONNECTORS</b>	
Bit Resolution:	8-bit	Optical:	SC, ST (FC Optional)
Differential Gain:	< 2%	Video:	BNC
Differential Phase:	< 0.6°	Data:	Shielded RJ-45 Plug
Tilt:	< 1%	<b>GENERAL</b>	
S/N Ratio:	67dB (Weighed)	Power Supply:	DC12V @ 500mA
<b>DATA</b>		Size:	7.68 x 7.52 x 1.42 Inches
Data Interface:	RS-485, RS-422, RS-232	Construction:	Aluminum
Data Rate:	100Kbps	Finish:	Paint
Bit Error Rate:	10 <sup>-9</sup>	MTBF:	> 100,000 hours
<b>WAVELENGTH</b>		Operating Temp:	-30° C to +50° C
Multimode:	850/1310nm	Storage Temp:	-40° C to +85° C
Singlemode:	1310/1550nm	Relative Humidity:	0% to 95% (non condensing)

## TYPICAL INSTALLATION

