



### KEY FEATURES

- 8-Bit Uncompressed Video Transmission
- NTSC, PAL or SECAM Camera System Compatible
- Transmit up to 30km without Optical Attenuation
- 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 over one multimode or singlemode optical fiber. The modules are directly compatible with NTSC, PAL or SECAM CCTV camera systems. These multiplexers are typically used in applications where the cameras are fixed. 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
<b>FVTM2003</b>	Transmitter	ST Simplex	MM	1310nm	3 Km
<b>FVRM2003</b>	Receiver	ST Simplex	MM	1310nm	3 Km
<b>FVTM2004</b>	Transmitter	SC Simplex	MM	1310nm	3 Km
<b>FVRM2004</b>	Receiver	SC Simplex	MM	1310nm	3 Km
<b>FVTM2005</b>	Transmitter	SC Simplex	SM	1310nm	30 Km
<b>FVRM2005</b>	Receiver	SC Simplex	SM	1310nm	30 Km

### VERSITRON, Inc.

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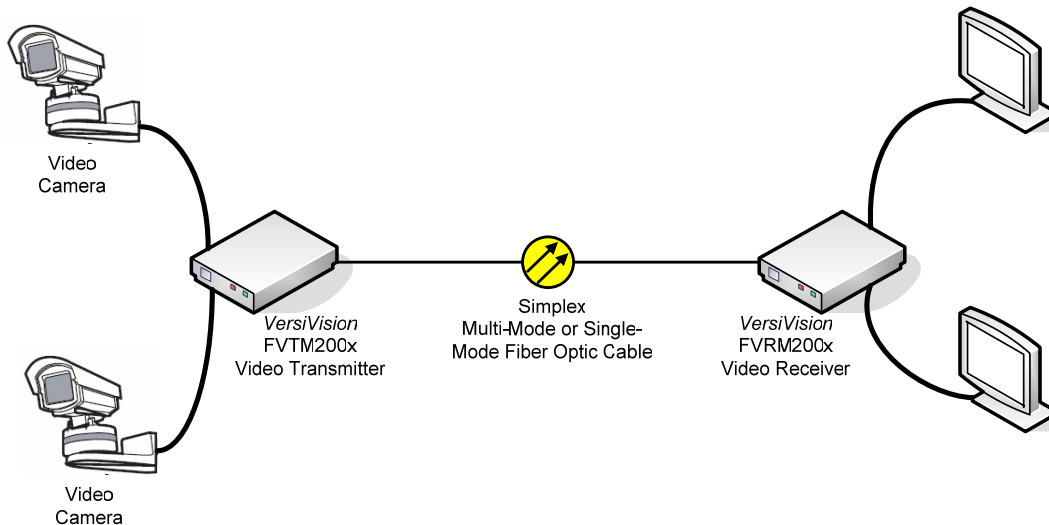
FEB2006 FVxM200x  
2-CHNL VIDEO MUX



## SPECIFICATIONS

<b>VIDEO</b>		<b>CONNECTORS</b>	
Video Input:	1 volt pk-pk (75 ohms)	Optical:	SC, ST (FC Optional)
Input/Output Channels:	2	Video:	BNC
Bandwidth:	5 Hz - 8 MHz	<b>GENERAL</b>	
Bit Resolution:	8-bit	Power Supply:	DC12V @ 300mA
Differential Gain:	< 2%	Size:	7.68 x 7.52 x 1.42 Inches
Differential Phase:	< 0.6°	Construction:	Aluminum
Tilt:	< 1%	Finish:	Paint
S/N Ratio:	67dB (Weighed)	MTBF:	> 100,000 hours
<b>WAVELENGTH</b>		Operating Temp:	-30° C to +50° C
1310nm		Storage Temp:	-40° C to +85° C
<b>OPTICAL EMITTER</b>		Relative Humidity:	0% to 95% (non condensing)
Laser Diode			
Number of Fibers:	1		

## TYPICAL INSTALLATION



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