



KEY FEATURES

- 8-Bit Digitally Encoded 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 eight channels of 8-bit digitally encoded broadcast quality video and return data over one multimode or singlemode optical fiber. The units are directly compatible with NTSC, PAL or SECAM CCTV camera systems and support RS-232, RS-422 and RS-485 data protocols. These multiplexer units 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 8-channel *transmitter* unit at the camera end of the link, connected via a single fiber optic cable, to a 8-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
FVTM8803	Transmitter	ST Simplex	MM	850/1310nm	3 Km
FVRM8803	Receiver	ST Simplex	MM	850/1310nm	3 Km
FVTM8804	Transmitter	SC Simplex	MM	850/1310nm	3 Km
FVRM8804	Receiver	SC Simplex	MM	850/1310nm	3 Km
FVTM8805	Transmitter	SC Simplex	SM	1310/1550nm	30 Km
FVRM8805	Receiver	SC Simplex	SM	1310/1550nm	30 Km

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MAR2006 FVxM880x
8-CHNL VIDEO/
DATA MUX



SPECIFICATIONS

VIDEO		OPTICAL EMITTER	
Video Input:	1 volt pk-pk (75 ohms)	Laser Diode	
Input/Output Channels:	8	Number of Fibers:	1
Bandwidth:	5 Hz - 8 MHz	CONNECTORS	
Bit Resolution:	8-bit	Optical:	SC, ST (FC Optional)
Differential Gain:	< 2%	Video:	BNC
Differential Phase:	< 0.6°	Data:	DB9F
Tilt:	< 1%	GENERAL	
S/N Ratio:	67dB (Weighed)	Power Supply:	AC 110 / 220V
DATA		Size:	18.98 x 9.76 x 1.77 Inches
Data Interface:	RS-485, RS-422, RS-232	Construction:	Aluminum
Data Rate:	100Kbps	Finish:	Paint
Bit Error Rate:	10 ⁻⁹	MTBF:	> 100,000 hours
WAVELENGTH		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

