



KEY FEATURES

- 8-Bit Uncompressed Video Transmission
- 24-Bit Digitally Encoded Stereo Audio Transmission
- Supports RS-232, RS-422, and RS-485 Data Protocols
- WDM Technology for Higher Reliability
- Compatible with NTSC, PAL or SECAM CCTV
- No EMI, RFI, Cross Talk, and Ground Loop
- No Electrical or Optical Adjustments Required
- LED Indicators for Instant System Monitoring
- Standalone or Rack Mount
- Transmit up to 30 Km without Optical Attenuation
- Simultaneous Transmission of Video, Data & Audio

DESCRIPTION

The VERSITRON *VersiVision* Series multiplexers simultaneously transmit four channels of 8-bit digitally encoded broadcast quality video, bi-directional data and bi-directional audio over one multimode or singlemode optical fiber. The units are directly compatible with NTSC, PAL, and SECAM camera systems and support RS-232, RS-422, and RS-485 data protocols. These units are typically used in applications where the cameras can transmit and receive data *and* audio. Plug and Play design ensures adjustment-free installation and operation, and optical adjustments are never required. LED indicators are provided to instantly monitor the system operating 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
FVTM4CC3	Transmitter	ST Simplex	MM	850/1310nm	3 Km
FVRM4CC3	Receiver	ST Simplex	MM	850/1310nm	3 Km
FVTM4CC4	Transmitter	SC Simplex	MM	850/1310nm	3 Km
FVRM4CC4	Receiver	SC Simplex	MM	850/1310nm	3 Km
FVTM4CC5	Transmitter	SC Simplex	SM	1310/1550nm	30 Km
FVRM4CC5	Receiver	SC Simplex	SM	1310/1550nm	30 Km

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MAR2006 FVxM4CCx
4-CHNL DIG VIDEO
W/ BI-DI DATA &
BI-DI AUDIO



SPECIFICATIONS

VIDEO		WAVELENGTH	
Video Input:	1 volt pk-pk (75 ohms)	Multimode:	850/1310nm
Input/Output Channels:	4	Singlemode:	1310/1550nm
Bandwidth:	5 Hz - 8 MHz	OPTICAL EMITTER	
Bit Resolution:	8-bit	Laser Diode	
Differential Gain:	< 2%	Number of Fibers:	1
Differential Phase:	< 0.6°	CONNECTORS	
Tilt:	< 1%	Optical:	SC, ST (FC Optional)
S/N Ratio:	67dB (Weighed)	Video:	BNC
DATA		Data/Audio:	Shielded RJ-45 Plug
Data Interface:	RS-232, RS-422, RS-485	GENERAL	
Data Channels:	4	Power Supply:	110 / 220VAC
Data Rate:	100Kbps	Size:	18.98 x 9.76 x 1.77 Inches
Bit Error Rate:	10 ⁻⁹	Construction:	Aluminum
AUDIO		Finish:	Paint
Audio Impedance:	600 Ω	MTBF:	> 100,000 hours
Audio Channels:	4	Operating Temp:	-30° C to +50° C
Input/Output Level:	0dBm (Typical)	Storage Temp:	-40° C to +85° C
Frequency Response:	10Hz-20KHz	Relative Humidity:	0% to 95% (non condensing)
Bit Resolution:	24-bit		
S/N Ratio:	88dB		

TYPICAL INSTALLATION

