

VersiVision - Fiber Optic Video

FVTM4BCxA-CE - Transmitter
FVRM4BCxA-CE - Receiver



Product Features

- 8-Bit Uncompressed Video Transmission
- RS-485 Data (RS-232 or RS-422 Optional)
- NTSC, PAL or SECAM Video Compatible
- 24-Bit Digitally Encoded Audio
- Contact-Closure
- 10/100Base Ethernet
- Transmit up to 30km without Optical Attenuation
- WDM Technology for Higher Reliability
- No EMI, RFI, Cross Talk or Video Distortion
- No Electrical or Optical Adjustments Required
- LED Indicators for Instant System Monitoring
- Stand-Alone or Rack-Mount in FVC18 Chassis



Product Description

The VERSITRON **VersiVision** Series video transmitters and receivers support 4-channels of 8-bit digitally encoded broadcast quality video + 2-channels of bi-directional data + 4-channels of bi-directional audio + 4-channels of bi-directional contact-closure + 10/100Base Ethernet over one multi-mode or single-mode optical fiber. The devices are directly compatible with NTSC, PAL, and SECAM camera systems. 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 *transmitter* unit at the camera end of the link, connected via a single fiber optic cable, to a *receiver* unit at the monitoring end of the link. Devices are available for either stand-alone or rack-mount installation with the FVC18 18-Slot Chassis.

Product Models

Model	Function	Connector	Fiber Cable	Wavelength	Max Distance
FVTM4BC3A-CE	Transmitter	ST Simplex	MM	850/1310nm	3 Km
FVRM4BC3A-CE	Receiver	ST Simplex	MM	850/1310nm	3 Km
FVTM4BC5A-CE	Transmitter	ST Simplex	SM	1310/1550nm	30 Km
FVRM4BC5A-CE	Receiver	ST Simplex	SM	1310/1550nm	30 Km

ST-SC adapters are available for applications using SC fiber connectors.

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Technical Specifications

VIDEO

Video Input:	2 Volt pk-pk (75 Ohms)
Input/Output Channels:	4
Bandwidth:	5 Hz - 8 MHz
Bit Resolution:	8 - Bit
Differential Gain:	< ±1%
Differential Phase:	< ±1°
Tilt:	< 1%
S/N Ratio:	60dB (Weighted)

WAVELENGTH

Multi-Mode:	850/1310nm
Single-Mode:	1310/1550nm

OPTICAL EMITTER

Laser Diode	
Number of Fibers:	1

DATA

Data Interface:	RS-485*
Data Rate:	Up to 300 Kbps
Data Channels:	(2) Bi-Directional
Bit Error Rate:	10 ⁻⁹
	* RS-232 or RS-422 Optional

AUDIO

Audio Channels:	(4) Bi-Directional
Audio Impedance:	600 Ohms
Input/Output Voltage:	2.0Vp-p
Frequency Response:	10Hz-20KHz
Bit Resolution:	24-bit
S/N Ratio:	>95dB (Weighted)

CONTACT CLOSURE

Relay:	24VDC, 0.5A (Normally Open) 125VAC, 0.1A (Normally Open)
Input/Output Channels:	(4) Bi-Directional

ETHERNET

Data Rate:	10/100Mbps
Data Channels:	1

CONNECTORS

Optical:	ST
Video:	BNC
Data/Audio/Contact:	Screw Terminal Strip

GENERAL

Power Supply:	5VDC, 2A
Dimensions:	5.98 x 5.12 x 1.95 Inches
MTBF:	> 100,000 Hours
Operating Temperature:	-35° C to +65° C
Storage Temperature:	-45° C to +85° C
Relative Humidity:	0% to 95% (non-condensing)



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Wiring Diagram

