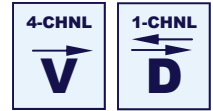


## VersiVision - Fiber Optic Video

**FVTM4A0xA** - Transmitter  
**FVRM4A0xA** - Receiver



### Product Features

- 8-Bit Uncompressed Video Transmission
- RS-485 Data (RS-232 or RS-422 Optional)
- NTSC, PAL or SECAM Video Compatible
- 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
- Hot-Pluggable into the FVC18 Chassis



### Product Description

The VERSITRON **VersiVision** Series video transmitters and receivers support 4-channels of 8-bit digitally encoded broadcast quality video + 1-channel of bi-directional data 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.

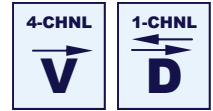
### Product Models

Model	Function	Connector	Fiber Cable	Wavelength	Max Distance
FVTM4A03A	Transmitter	ST Simplex	MM	850/1310nm	3 Km
FVRM4A03A	Receiver	ST Simplex	MM	850/1310nm	3 Km
FVTM4A05A	Transmitter	ST Simplex	SM	1310/1550nm	30 Km
FVRM4A05A	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: <math>\lt; \pm 1\%</math>  
Differential Phase: <math>\lt; \pm 1^\circ</math>  
Tilt: <math>\lt; 1\%</math>  
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: (1) Bi-Directional  
Bit Rate Error:  $10^{-9}$   
\*RS-232 or RS-422 Optional

**CONNECTORS**

Optical: ST  
Video: BNC  
Data: Screw Terminal Strip

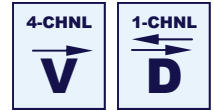
**GENERAL**

Power Supply: 5VDC, 2A  
Dimensions: 5.98 x 5.12 x 1.13 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**

FVTM4A0xA TRANSMITTER

FVRM4A0xA RECEIVER

