

## VersiVision - Fiber Optic Video

**FVTMHA0xA** - Transmitter  
**FVRMHA0xA** - 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 Versions



Stand-Alone Version

### Product Description

The VERSITRON **VersiVision** Series video transmitters and receivers support 16-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.

### Product Models

Model	Function	Installation	Connector	Fiber Cable	Wavelength	Max Distance
FVTMHA03A	Transmitter	Stand-Alone	ST Simplex	MM	850/1310nm	1 Km
FVRMHA03A	Receiver	Stand-Alone	ST Simplex	MM	850/1310nm	1 Km
FVTMHA05A	Transmitter	Stand-Alone	ST Simplex	SM	1310/1550nm	30 Km
FVRMHA05A	Receiver	Stand-Alone	ST Simplex	SM	1310/1550nm	30 Km
FVTMHA03A-RM	Transmitter	Rack-Mount	ST Simplex	MM	850/1310nm	1 Km
FVRMHA03A-RM	Receiver	Rack-Mount	ST Simplex	MM	850/1310nm	1 Km
FVTMHA05A-RM	Transmitter	Rack-Mount	ST Simplex	SM	1310/1550nm	30 Km
FVRMHA05A-RM	Receiver	Rack-Mount	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:	16
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:	(1) Bi-Directional
Bit Error Rate:	10 <sup>-9</sup>
	*RS-232 or RS-422 Optional

#### CONNECTORS

Optical:	ST
Video:	BNC
Data:	Screw Terminal Strip

#### GENERAL

Power Supply (Stand-Alone):	5VDC, 2A
Power Supply (Rack-Mount):	100-240VAC
Dimensions (Stand-Alone):	10.24 x 7.05 x 1.97 Inches
Dimensions (Rack-Mount):	17.60 x 9.33 x 1.77 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)



1U, 19" Rack-Mount Versions

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**Wiring Diagram**

