

## VersiVision - Fiber Optic Video

**FVTM2BBxA** - Transmitter  
**FVRM2BBxA** - Receiver



### Product Features

- 8-Bit Uncompressed Video Transmission
- NTSC, PAL or SECAM Video Compatible
- RS-485 Data (RS-232 or RS-422 Optional)
- 24-Bit Digitally Encoded Audio
- 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 2-channels of 8-bit digitally encoded broadcast quality video + 2-channels of bi-directional data + 2-channels of bi-directional audio 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
FVTM2BB3A	Transmitter	ST Simplex	MM	850/1310nm	3 Km
FVRM2BB3A	Receiver	ST Simplex	MM	850/1310nm	3 Km
FVTM2BB5A	Transmitter	ST Simplex	SM	1310/1550nm	30 Km
FVRM2BB5A	Receiver	ST Simplex	SM	1310/1550nm	30 Km

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

## VersiVision - Fiber Optic Video

**FVTM2BBxA** - Transmitter  
**FVRM2BBxA** - Receiver



### Technical Specifications

#### VIDEO

Video Input:	2 Volt pk-pk (75 Ohms)
Input/Output Channels:	2
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 <sup>-9</sup>
	* RS-232 or RS-422 Optional

#### AUDIO

Audio Channels:	(2) 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)

#### CONNECTORS

Optical:	ST
Video:	BNC
Data/Audio/Contact:	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)



**VersiVision - Fiber Optic Video**

**FVTM2BBxA - Transmitter**  
**FVRM2BBxA - Receiver**



**Wiring Diagram**

