

VersiVision - Fiber Optic Video

FVTMH00xA - Transmitter
FVRMH00xA - Receiver



Product Features

- 8-Bit Uncompressed Video Transmission
- 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 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
FVTMH003A	Transmitter	Stand-Alone	ST Simplex	MM	1310nm	1 Km
FVRMH003A	Receiver	Stand-Alone	ST Simplex	MM	1310nm	1 Km
FVTMH005A	Transmitter	Stand-Alone	ST Simplex	SM	1310nm	30 Km
FVRMH005A	Receiver	Stand-Alone	ST Simplex	SM	1310nm	30 Km
FVTMH003A-RM	Transmitter	Rack-Mount	ST Simplex	MM	1310nm	1 Km
FVRMH003A-RM	Receiver	Rack-Mount	ST Simplex	MM	1310nm	1 Km
FVTMH005A-RM	Transmitter	Rack-Mount	ST Simplex	SM	1310nm	30 Km
FVRMH005A-RM	Receiver	Rack-Mount	ST Simplex	SM	1310nm	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: $\pm 1\%$
Differential Phase: $\pm 1^\circ$
Tilt: <math>< 1\%</math>
S/N Ratio: 60dB (Weighted)

WAVELENGTH

Multi-Mode: 1310nm
Single-Mode: 1310nm

OPTICAL EMITTER

Laser Diode
Number of Fibers: 1

CONNECTORS

Optical: ST
Video: BNC

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

