



KEY FEATURES

- 8-Bit Uncompressed Video Transmission
- 24-Bit Digitally Encoded Stereo Audio Transmission
- Supports RS-232, RS-422, and RS-485 Data Protocols
- WDM Technology for Higher Reliability
- Compatible with NTSC, PAL or SECAM CCTV
- No EMI, RFI, Cross Talk, and Ground Loop
- No Electrical or Optical Adjustments Required
- LED Indicators for Instant System Monitoring
- Standalone or Rack Mount
- Transmit up to 30 Km without Optical Attenuation
- Simultaneous Transmission of Video, Data & Audio

DESCRIPTION

The VERSITRON *VersiVision* Series video, data and audio transmitter and receiver support 8-bit digitally encoded broadcast quality video, return data and forward audio over one multimode or singlemode optical fiber. The units are directly compatible with NTSC, PAL, and SECAM camera systems and support RS-232, RS-422, and RS-485 data protocols. These units are typically used in applications where the cameras have P/T/Z capabilities *and* can also transmit forward audio to the monitoring location. 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 standalone or rack-mount installation.

Model	Function	Connector	Fiber Cable	Wavelength	Max Distance
FDVT1113	Transmitter	ST Simplex	MM	850/1310nm	3 Km
FDVR1113	Receiver	ST Simplex	MM	850/1310nm	3 Km
FDVT1114	Transmitter	SC Simplex	MM	850/1310nm	3 Km
FDVR1114	Receiver	SC Simplex	MM	850/1310nm	3 Km
FDVT1115	Transmitter	SC Simplex	SM	1310/1550nm	30 Km
FDVR1115	Receiver	SC Simplex	SM	1310/1550nm	30 Km



SPECIFICATIONS

<p>VIDEO</p> <p>Video Input: 1 volt pk-pk (75 ohms)</p> <p>Input/Output Channels: 1</p> <p>Bandwidth: 5 Hz - 8 MHz</p> <p>Bit Resolution: 8-bit</p> <p>Differential Gain: < 2%</p> <p>Differential Phase: < 0.6°</p> <p>Tilt: < 1%</p> <p>S/N Ratio: 67dB (Weighed)</p>		<p>WAVELENGTH</p> <p>Multimode 850/1310nm</p> <p>Singlemode 1310/1550nm</p>	
<p>DATA</p> <p>Data Interface: RS-232, RS-422, RS-485</p> <p>Data Rate: 100Kbps</p> <p>Bit Error Rate: 10⁻⁹</p>		<p>OPTICAL EMITTER</p> <p>Laser Diode</p> <p>Number of Fibers: 1</p>	
<p>AUDIO</p> <p>Audio Impedance 600 Ω</p> <p>Input/Output Level 0dBm (Typical)</p> <p>Frequency Response 10Hz-20KHz</p> <p>Bit Resolution 24-bit</p> <p>S/N Ratio 88dB</p>		<p>CONNECTORS</p> <p>Optical SC, ST (FC Optional)</p> <p>Video BNC</p> <p>Data/Audio Shielded RJ-45 Plug</p>	
<p>GENERAL</p> <p>Power Supply: 12VDC @ 1.5A</p> <p>Size: 7.68 x 7.52 x 1.42 Inches</p> <p>Construction: Aluminum</p> <p>Finish: Paint</p> <p>MTBF: > 100,000 hours</p> <p>Operating Temp: -30° C to +50° C</p> <p>Storage Temp: -40° C to +85° C</p> <p>Relative Humidity: 0% to 95% (non condensing)</p>			

TYPICAL INSTALLATION

