Overview

The VL8D is a reliable high quality low cost fiber optic uncompressed digital video Transmitter/Receiver for transmitting/receiving 8 channels of video, and receiving/transmitting 1 channel of data for controlling PTZ camera over one single mode or multimode fiber optic cable.

The VL8D uncompressed video is compatible with NTSC Medium Haul standards (RS-250C) and other video formats such as PAL, CCIR and C-Cam standards. The PTZ data is compliance with IEA Standard RS-232, RS-422 and RS485 interfaces.

The VL8D series offers a fully digital 8 bits encoding/decoding of uncompressed real time video providing adjustment free operation over a wide operational range. Using AGC techniques for distances from back-to-back to 50 Kilometers, our digital signaling offers superior receiver output stability, which is unaffected by changes in fiber path attenuation due to aging or splicing points.

The extended temperature capability of the VL8D satisfies very critical applications requiring high quality video performance with high reliability.


Features

- Real Time Digital Video Transmission
- 8 Bits Digital Encoding/Decoding
- NTSC Medium Haul Performance (RS-250C)
- International PAL Standards/ CCIR Formats
- PTZ Camera Data ( EIA-RS-485)
- AGC Single Mode Transmission of 0 to 50 Km
- Extended Temperature Range

Applications

- City and Highway Monitoring System
- Metro & Railroad Monitoring System
- Oil & Gas Pipeline Monitoring
- Airport Security System
- Long Distance CCTV with PTZ
- Homeland Security
- Utility System
- Military Security Applications
- Premise Networks
- Any High Quality Video Requirement

Order Information

<table>
<thead>
<tr>
<th>Model</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>VL8DST03T</td>
<td>8 Channels Analog Video (Tx) with PTZ Data Over Fiber, SM ST, 50Km, +5 VDC</td>
</tr>
<tr>
<td>VL8DST03R</td>
<td>8 Channels Analog Video (Rx) with PTZ Data Over Fiber, SM ST, 50Km, +5 VDC</td>
</tr>
</tbody>
</table>
### Specifications

**System:**
- Error Rate: 1 in $10^{12}$ or Better
- Indicators: PWR, Link

**Optical:**
- Transmitter: Lasers
- Receiver: PIN
- Wavelength: 1310/1550 nm
- Power Budget: 20 dB @ SM
- Connector: ST, FC, SC

**Environment:**
- Operating: -34°C to +74°C
- Storage: -40°C to + 95°C
- Humidity: 98% Non-Condensing

**Physical:**
- Dimensions: 1.25” x 4.5” x 5.0”
- Weight: 1 lb

**Power:**
- TX/RX: +5 VDC

### Video Interface:
- Channel: 8
- Format: NTSC, PAL, RS-250C, CCIR
- Signal Level: 1 Vp-p
- Impedance: 75 Ohms
- Video Digitization: 8 Bits, 14 Mega Samples
- Bandwidth: 8 Mhz
- Differential Gain: < 1.0%
- Differential Phase: < 0.6°
- Signal/Noise Ratio: > 65 dB (Weighted)
- Connector: BNC

### Data Interface:
- Channel: 1
- Type: PTZ Control
- Speed: DC to 115 Kbps
- Format: RS-232 / RS-422 / RS-485
- Connector: Terminal Block

---

**Application**

Analog PTZ Cameras

Up to 50 Km SM Fiber

Analog Video Monitor

PTZ Control Data

---

All statements, technical information and recommendations related to the products herein are based upon information believed to be reliable or accurate at the time of publication. However, the accuracy or completeness of the information given is not guaranteed and no responsibility is assumed for any inaccuracies. Please contact Vi-Link, Inc. for more information. Vi-Link, Inc. and Vi-Link Logo are trademarks of Vi-Link, Inc.