



Vi-Link

Fiber Optic Communications

1 Channel High Quality Uncompressed CCTV Video (AV) with PTZ Data Over Fiber

CCTV Equipment Series

Model VL1D



Product Description

The VL1D is a reliable high-quality low-cost fiber optic uncompressed digital video Transmitter/Receiver for transmitting/receiving 1 channel of video and receiving/transmitting 1 channel of data for controlling PTZ camera over one single mode or multimode fiber optic cable.

The VL1D 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 complies with IEA Standard RS-485 interfaces.

The VL1D 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 VL1D satisfies very critical applications requiring high quality video performance with high reliability.

Applications include City and Highway Traffic Monitoring System, Metro & Railroad Monitoring System, Oil & Gas Pipeline Monitoring System, Airport Security System, High quality CCTV Surveillance, Homeland Security, Utility Management, Premise Networks, Military Hardened applications or anything requiring high quality video performance.

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
- Metro and Railroad Monitoring
- Oil & Gas Pipeline Monitoring
- Airport Security Systems
- Utility Systems
- Military Applications
- Premise Networks
- Any Digital HD Video Monitoring Requirement

Ordering Information

Model	Descriptions
VL1DT03	1 Channel CCTV AV Video (Tx) with PTZ Data Over Fiber, SM ST, 50Km, +5 VDC
VL1DR03	1 Channel CCTV AV Video (Rx) with PTZ Data Over Fiber, SM ST, 50Km, +5 VDC
VL1DRR03	1 Channel CCTV AV Video (Rx) Rack Card with PTZ Data Over Fiber, SM ST, 50Km, +5 VDC

*** Please Consult Factory for Additional Model Numbers***



HDccTV Equipment Series

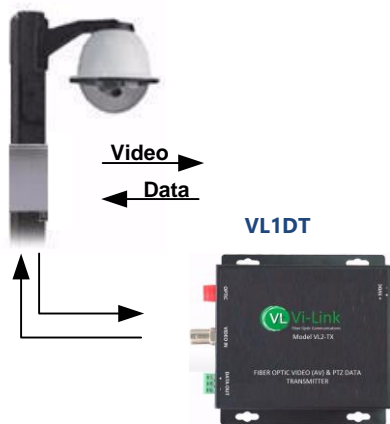
Model VL1D

System:	
Error Rate	1 in 10 ¹² or Better
Indicators	PWR, Link
Optical:	
Transmitter	Laser
Receiver	PIN
Wavelength	1310/1550 nm
Power Budget	20 dB @ SM
Connector	ST
Environment:	
Operating	-34 ⁰ C to +74 ⁰ C
Storage	-40 ⁰ C to + 95 ⁰ C
Humidity	98% Non-Condensing
Physical:	
Dimensions	2.5" x 3.5" x 1.25"
Weight	1 lb
Power:	
TX/RX	+5 VDC Adaptor

Video Interface:	
Channel	1
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 ⁰
Signal/Noise Ratio	> 65 dB (Weighted)
Connector	BNC
Data Interface:	
Channel	1
Type	PTZ Control
Speed	DC to 115 Kbps
Format	RS-485
Connector	Terminal Block

Application

CCTV-PTZ DOME CAMERA



VL1DT



Up to 40 Km SM Fiber

HDTV Monitor



Video
Data



VL1DRR



PTZ Camera Control

**Typical VL1DT& VL1DRR
In Traffic Monitoring Application**