



# Vi-Link

Fiber Optic Communications

## 4 Channels High Quality Uncompressed CCTV Video (AV) with PTZ Data Over Fiber

CCTV Equipment Series

Model VL4D



### Product Description

The VL4D is a reliable high quality low cost fiber optic uncompressed digital video Transmitter/Receiver for transmitting/receiving 4 channels of video, and receiving/transmitting 1 channel of data for controlling PTZ camera over one single mode or multimode fiber optic cable.

The VL4D 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 interfaces.

The VL4D 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 VL4D 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

- 4 Channels CCTV Video (AV)
- 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-232/422)
- 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
VL4DT03	4 Channels CCTV AV Video (Tx) with PTZ Data Over Fiber, SM ST, 50Km, +5 VDC
VL4DR03	4 Channels CCTV AV Video (Rx) with PTZ Data Over Fiber, SM ST, 50Km, +5 VDC

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



## HDccTV Equipment Series

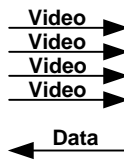
Model VL4D

<b>System:</b>	
Error Rate	1 in 10 <sup>12</sup> or Better
Indicators	PWR, Link
<b>Optical:</b>	
Transmitter	Lasers
Receiver	PIN
Wavelength	1310/1550 nm
Power Budget	20 dB @ SM
Connector	ST, FC, SC
<b>Environment:</b>	
Operating	-34 <sup>0</sup> C to +74 <sup>0</sup> C
Storage	-40 <sup>0</sup> C to + 95 <sup>0</sup> C
Humidity	98% Non-Condensing
<b>Physical:</b>	
Dimensions	5" x 4.5" x 1.5"
Weight	2 lbs
<b>Power:</b>	
TX/RX	+5 VDC

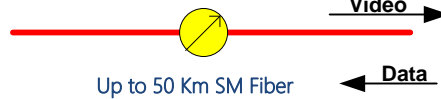
<b>Video Interface:</b>	
Channel	4
Format	NTSC, PAL, RS-250C, CCIR
Signal Level	1 Vp-p
Impedance	75 Ohms
Video Digitization	8 Bits, 14 Mega Samples
Bandwidth	8 Mhz
Differential Gain	< 1.0%
Differential Phase	< 0.6 <sup>0</sup>
Signal/Noise Ratio	> 65 dB (Weighted)
Connector	BNC
<b>Data Interface:</b>	
Channel	1
Type	PTZ Control
Speed	DC to 115 Kbps
Format	RS-232 / RS-422
Connector	Terminal Block

## Application

### CCTV-PTZ DOME CAMERAS



### VL4DT



### HDTV Monitor



### VL4DR



### PTZ Camera Control

### Typical VL4DT& VL4DR In Traffic Monitoring Application