

## Overview

The VILINK VL8D is a fiber optic digital Transmitter/Multiplexer for transmitting 8 channels of video and 1 channel return data for PTZ camera over a fiber optic cable.

The VL8D Series is compatible with NTSC Medium Haul standards (RS-250C) and other video formats such as PAL, CCIR and C-Cam standards.

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.

Applications include ITS Intelligent Traffic System, 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 Singlemode Transmission of 0 to 50 Km
- Extended Temperature Range

## Applications

- ITS Traffic Applications
- Long Distance CCTV/PTZ
- Homeland Security
- Utility System
- Military Applications
- Premise Networks
- Any High Quality Video Requirement

## Ordering Information

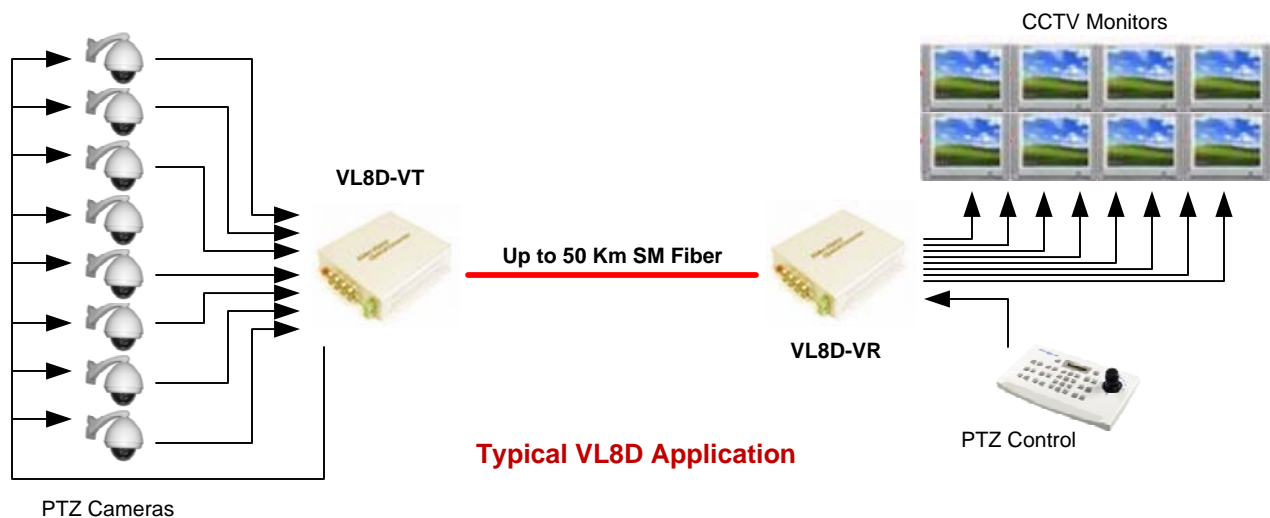
Model	Descriptions
VL8DVTDST35	8-Ch Uncompressed Video Tx & 1-ch PTZ Data, 1310/1550nm SM ST, +12 VDC
VL8DVRDST53	8-Ch Uncompressed Video Rx & 1-ch PTZ Data, 1550/1310nm, SM ST, +12 VDC
<small>*** Please Consult Factory for Additional Model Numbers***</small>	

## Specifications

<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	1.75" x 8.0" x 7.0"
Weight	5 lbs.

<b>Video Interface:</b>	
Channel	8
Format	NTSC, PAL, RS-250C, CCIR
Signal Level	1 Vp-p
Impedance	75 Ohms
Video Digitization	8 Bits, 14 Mega Samples
Bandwidth	6.5 Mhz
Differential Gain	< 1.5%
Differential Phase	< 1.0 <sup>0</sup>
Signal/Noise Ratio	> 65 dB (Weighted)
Connector	BNC
<b>Data Interface:</b>	
Channel	1
Speed	DC to 19.2 Kbps
Format	RS-232 / RS-422 / RS-485
Connector	RJ45
<b>Power:</b>	
TX/RX	+12 VDC

## Applications



Typical VL8D Application

