



Vi-Link

Fiber Optic Communications

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

CCTV Equipment Series

Model VL16D



Product Description

The VL16D is a reliable high quality low cost fiber optic uncompressed digital video Transmitter/Receiver for transmitting/receiving 16 channels of video, and receiving/transmitting 1 channel of data for controlling PTZ camera over one single mode or multimode fiber optic cable.

The VL16D 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 VL16D 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 VL16D 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

- 16 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
VL16DT03	16 Channels CCTV AV Video (Tx) with PTZ Data Over Fiber, SM ST, 50Km, 120 VAC @0.5 Amp
VL16DR03	16 Channels CCTV AV Video (Rx) with PTZ Data Over Fiber, SM ST, 50Km, 120 VAC @0.5 Amp

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



Vi-Link

Fiber Optic Communications

Technical Specifications

HDccTV Equipment Series

Model VL16D

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 ⁰ C to +74 ⁰ C
Storage	-40 ⁰ C to + 95 ⁰ C
Humidity	98% Non-Condensing
Physical:	
Dimensions	19" x 10" x 1.5"
Weight	5 lbs
Power:	
TX/RX	120 VAC @ .5 Amp

Video Interface:	
Channel	16
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-232 / RS-422
Connector	Terminal Block

Application

