VILINK Communications Inc.

CCTV Equipment Series   Model   VL64

Overview

VILINK new generation CCTV equipment: The VL64 is a fiber optic reliable high quality and low cost uncompressed digital Transmitter/Receiver for transmitting/receiving 64 channels of video, and receiving/transmitting 4 channels of data for PTZ camera over one single mode or multimode fiber optic cable.
The VL64 uncompressed video is compatible with NTSC Medium Haul standards (RS-250C) and other video formats such as PAL, CCIR and C-Cam standards, and the PTZ data is compliance with IEA Standard RS-232, RS-422 and RS485 interfaces.

The VL64 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 40 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 VL64 satisfies very critical applications requiring high quality video performance with high reliability.

Applications include ITS Intelligent Traffic System, CCTV Surveillance, Homeland Security, Metro System, 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 40 Km*
- *Extended Temperature Range*

Applications

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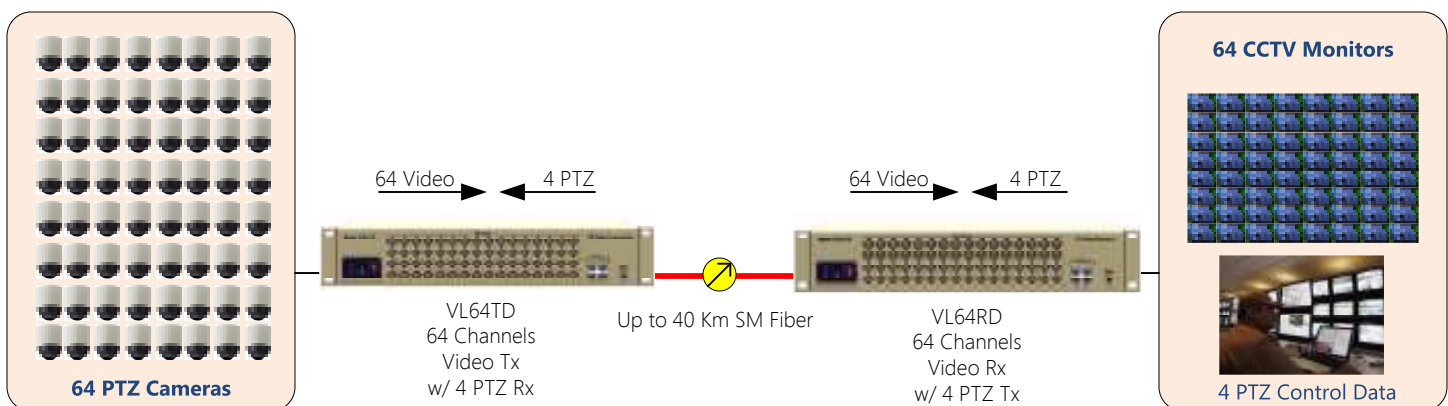- *Any High Quality Video Requirement*

Ordering Information

Model	Descriptions
VL64TST03	64 Channel Video (Tx) SM 40Km 90~240 VAC
VL64RST03	64 Channel Video (Rx) SM 40Km ST 90 ~240 VAC
VL64TDST03	64 Channel Video (Tx) 4 PTZ data, SM 40Km ST 90 ~ 240 VAC
VL64RDST03	64 Channel Video (Rx) 4 PTZ data, SM 40Km ST 90 ~240 VAC

** Please Consult Factory for Additional Model Numbers**

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System:

Error Rate	1 in 10^{12} or better
Power Supply	Dual Power AC or DC
Indicators	PWR, Links

Optical:

Transmitter	2.5 Gbps Lasers
Receiver	PIN
Wavelength	1310/1490/1510/1530/1550 nm
Power Budget	20 dB @ SM
Connector	ST, FC, SC

Environment:

Operating	-34^0 C to $+74^0$C
Storage	-40^0C to $+ 95^0$C
Humidity	98% Non-Condensing

Physical:

Dimensions	19" x 10" x 5"
Weight	6 lbs

Power:

TX/RX	90 ~ 240 VAC

Video Interface:

Channel	64
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	4
Type	PTZ Control
Speed	DC to 115 Kbps
Format	RS-232 / RS-422 / RS-485
Connector	RJ45

Application

64 CCTV Monitors

64 Video   4 PTZ   64 Video   4 PTZ

VL64TD
64 Channels
Video Tx
w/ 4 PTZ Rx

Up to 40 Km SM Fiber

VL64RD
64 Channels
Video Rx
w/ 4 PTZ Tx

64 PTZ Cameras

4 PTZ Control Data

Typical VL64 Application