



Overview

VILINK new High Definition Video equipment: The VILINK DL110 is a fiber optic digital Transmitter/multiplexer for transmitting 3G HD/SD SDI video signal and PTZ control data (uni-direction) over a single mode fiber optic cable. This robust transmission platform with extended operating temperature range is a cost effective selection for transporting high quality broadcasting HDTV picture.

The DL110 Series is compatible with SMPTE-424M, SMPTE-292M, SMPTE 344M and SMPTE-259M serial digital signal with data rate up to 2.97 Gbps over long distance single mode fiber optic cable. It supports DVB—ASI at 270 Mbps and many other video formats. In addition, it is capable of full duplex bi-directional data transmission of EIA-RS-232 and EIA-RS-422/EIA-RS-485 data formats that are externally switchable for varied requirements.

The DL110 series offers a fully serial digital video 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 DL110 satisfies very critical applications requiring high quality video performance with high reliability.

The DL110T and DL110R are rugged standalone compact units and the DLR110R is a plug-in card for the rack version. The VK2300 chassis can accommodate up to 10 hot-swappable plug-in cards with 2 power supplies.

Applications include broadcast video production, video editing, ITS Intelligent Traffic System, Metro and Railroad Systems, Oil & Gas Monitoring, Homeland Security, Utility Management, Premise Networks, Military Hardened applications or anything requiring High Definition quality video performance.

Features

- 3G HD/SD SDI video signals
- Real Time Digital Video Transmission
- Supports SMPTE 424M, 292M, 344M and 259M
- Digital Video Data Rate up to 2.97 Gbps
- Support DVB-ASI at 270 Mbps
- Uni-Directional Data RS-232/RS-422/485 Switchable for Controlling PTZ Camera
- AGC Single mode Transmission of 0 to 50 Km
- Standalone & Plug-in rack card
- NEMA Temperature

Applications

- HD Video Broadcasting
- ITS Traffic Control & Monitoring
- Metro and Railroad Applications
- Oil & Gas Monitoring
- Long Distance HDccTV
- Utility System
- Military Applications
- Premise Networks
- Any Digital HD Video Requirement

Ordering Information

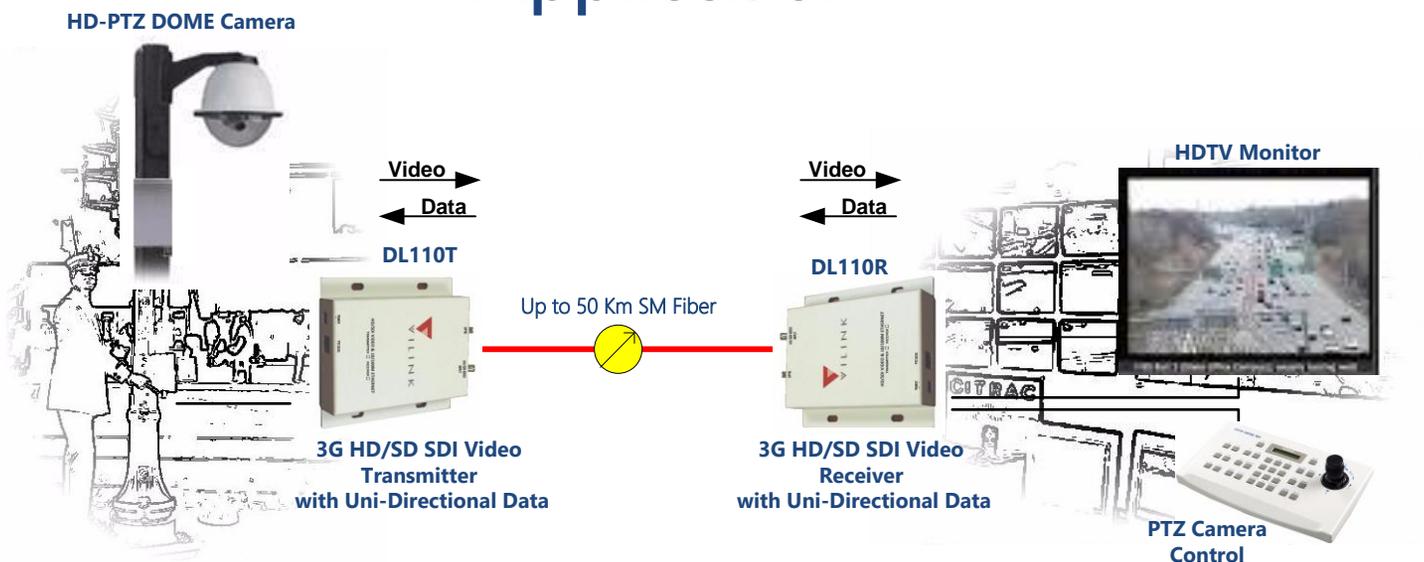
Model	Descriptions
DL110TST35	1-ch 3G HD/SD SDI (Video Tx), Unii-Directional RS-232/422/485 Data Switchable, 1310/1550nm SM ST, 50Km, +12 VDC
DL110RST53	1-ch 3G HD/SD SDI (Video Rx), Unii-Directional RS-232/422/485 Data Switchable, 1310/1550nm SM ST, 50Km, +12 VDC
DLR110RST53	1-ch 3G HD/SD SDI (Video Rx), Unii-Directional RS-232/422/485 Data Switchable, 1310/1550nm SM ST, 50Km, Rack Card

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

System:	
Error Rate	1 in 10 ¹² or Better
Indicators	PWR, Video Active, Data
Optical:	
Transmitter	Lasers
Tx	1310nm, 1550nm
Rx	1310nm
Receiver	PIN
Tx	1550nm
Rx	1310nm, 1550nm
Power Budget	20 dB @ SM
Connector	ST, FC, SC
Environment:	
Operating	-34 ^o C to +74 ^o C
Storage	-40 ^o C to + 95 ^o C
Humidity	98% Non-Condensing
Power:	
Standalone	+12 VDC
Rack Chassis	90~240 VAC

3G HD/SD SDI Video Interface:	
Channel	1
Format	SMPTE 424M, 292M, 344M, 259M
Format Selection	Switchable
Speed	Up to 2.97 Gbps
Full HD Revolution	1280 x 720P @ 50/60fps 1920 x 1080P @ 50/60fps
Signal Level	800mVp-p +/-10%
Connector	BNC
Impedance	75 Ohms
Uni-Directional Data:	
Channel	1
Speed	DC to 19.2 Kbps
Format	RS-232 / RS-422 / RS-485
Format Selection	Switchable
Connector	RJ45
Physical:	
Dimensions	
Standalone	1" x 6" x 4"
Rack	19" x 12" x 5.5"

Application



Typical DL110T & DL110R In Traffic Application