



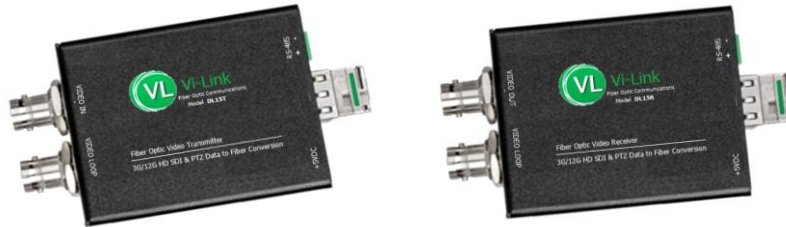
Vi-Link

Fiber Optic Communications

One Channel High Quality 3G/12G HD-SDI Broadcast Video & PTZ Data Over One SM Fiber

CCTV Equipment Series

Model DL15



Product Description

Vi-Link HD SDI Video equipment: The DL15 is a fiber optic digital Transmitter/Receiver for transmitting/receiving high-quality 3G/12G HD SDI digital broadcast video and PTZ Data (reverse direction) over a single mode fiber optic cable. It is a cost-effective selection for transporting broadcast-quality video images.

The DL15 optical converter built-in serial clock recovery, signal equalization, and line drive, input automatic detection signal 12G-SDI/6G-SDI/3G-SDI/HD-SDI/SDI/ASI, compatible with all SMPTEST2082-1 (12GUHD-SDI), ST2081-1 (6GUHD-SDI), SMPTE424M, SMPTE292M, SMPTE259M, SMPTE297M, SMPTE305M, SMPTE310M standards serial digital signal over long distance single mode fiber optic cable.

Using AGC technology for distances from back-to-back to 20 Kilometers, our digital signaling offers superior receiver output stability, unaffected by changes in fiber path attenuation due to aging or splicing points.

The extended temperature capability of the DL15 satisfies critical applications requiring high-quality video performance with high reliability. It is a direct replacement equipment for upgrading the old analog video monitoring network to a high-quality HD video monitoring system.

Applications include ITS Intelligent Traffic System, Metro & Railroad systems, Avionic Surveillance, Oil and Gas Systems, Homeland Security, Utility Management, Premise Networks, Military Hardened applications, or anything requiring HD quality video performance.

Features

Support ST-2082-1 (12G), ST-2081-1 (6G), ST-424 (3G), ST-292 (HD) and ST-259 (SD) compatible with DVB-ASI and AES10 (MADI)

Both transmitter and receiver have clock recovery function; (clock restorer can reduce high frequency jitter and completely regenerate data with pure low jitter clock)

The clock restorer is locked to 11.88Gbps, 5.94Gbps, 2.97Gbps, 1.485Gbps or 1.001 frequency division sub rate and SMPTE rate of 270Mbps

Signal input has automatic cable equalization (EQ) function

Support plug and play SFP optical module, which can replace optical module corresponding to different distances or interfaces according to the actual site requirements

Up to 20 Km Distance with Standard Dual Fiber 1310nm SDP Module

Support USB device power supply

Extended Temperature for Hash Environment Installation

Plug and play

Applications

- Broadcasting Video Transmission*
- High Quality HD-SDI Video Monitoring in Traffic Operation (ITS)*
- High Quality Images METRO Security Avionic Surveillance System*
- Oil & Gas Perimeter Intruder Detection*
- Military Applications*
- Premise Networks*
- Any High Quality Video Requirement*

Ordering Information

Model	Descriptions
DL15TLC03	One Channel 3G/12G HD SDI (Video Tx) & RS-485 PTZ Data (Output), SFP Dual LC, 20Km, +5VDC
DL15RLC03	One Channel 3G/12G HD SDI (Video Rx) & RS-485 PTZ Data (Input), SFP Dual LC, 20Km, +5VDC



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Technical Specifications

HDTV Equipment Series

Model DL15

System:	
Error Rate	1 in 10 ¹² or Better
Indicators	PWR, Video, Data
Optical:	
Transmitter	DFB Laser
Tx	1310nm
Receiver	PIN
RX	1310nm
Power Budget	20 dB @ SM
Connector	SFP LC
Environment:	
Operating	-34 ⁰ C to +74 ⁰ C
Storage	-40 ⁰ C to + 95 ⁰ C
Humidity	98% Non-Condensing
Physical:	
Standalone	1.25" x 3" x 2"

3G/12G HD-SDI Video Interface:	
Channel	1 x 3G/12G HD-SDI
Format	SMPTTEST2082-1 (12GUHD-SDI) ST2081-1(6GUHD-SDI) SMPTTE424M, SMPTTE292M, SMPTTE259M, SMPTTE297M, SMPTTE305M, SMPTTE310M
Speed	143Mps~12 Gbps
Full HD Revolution	1280 x 720P @ 50/60fps 1920 x 1080P @ 50/60fps
Signal Level	800mVp-p +/-10%
Connector	BNC
Impedance	75 Ohms
Indicator	
Power:	
Standalone	USB +5VDC

Application

