



Vi-Link

Fiber Optic Communications

One Channel High Quality 3G/12G HD-SDI Broadcast Video Mini Type One SM Fiber

CCTV Equipment Series

Model DL12



Product Description

Vi-Link HD SDI Video equipment: The DL12 is a fiber optic digital Transmitter/Receiver for transmitting/receiving high-quality 3G/12G HD SDI digital broadcast video over a single mode fiber optic cable. It is a cost-effective selection for transporting broadcast-quality video images.

The DL12 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 10 Kilometers, our digital signaling offers superior receiver output stability, unaffected by changes in fiber path attenuation due to aging or splicing points. 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
- 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
- Receiver Output has Drive (CD) Function;
- Multi-mode fiber transmission distance up to 550M
- Up to 10 Km with Single Mode Fiber
- Plug and play, no setting required;

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
DL12TST03	One Channel 3G/12G HD SDI (Mini Video Tx) , ST, 10Km SM, +5VDC
DL12RST03	One Channel 3G/12G HD SDI (Mini Video Rx), ST, 10Km SM, +5VDC



HDTV Equipment Series

Model DL12

System:	
Error Rate	1 in 10 ¹² or Better
Indicators	PWR, Video
Optical:	
Transmitter	DFB Laser
Tx	1310nm
Receiver	PIN
RX	1310nm
Power Budget	10 dB @ SM
Connector	ST
Environment:	
Operating	-34 ⁰ C to +74 ⁰ C
Storage	-40 ⁰ C to + 95 ⁰ C
Humidity	98% Non-Condensing
Physical:	
Standalone	0.75" x 2" x 0.75"

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	+5VDC

Application

