



Vi-Link

Fiber Optic Communications

One Channel High Quality 3G HD-SDI Broadcast Video Over One Fiber

CCTV Equipment Series

Model DL100



Product Description

Vi-Link HD SDI Video equipment: The DL100 is a fiber optic digital Transmitter/Receiver for transmitting/receiving high quality 3G 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 DL100 is compatible with all SMPTE rates: *SMPTE259M SDI from 143 to 360 Mbps, SMPTE344M 540Mbps, SMPTE292M HD-SDI 1.485 Gbps, SMPTE372M Dual Link HD-SDI 2,97 Gbps, SMPTE424M Dual Speed 3G-SDI 2.97 Gbps* serial digital signal over long distance single mode fiber optic cable.

The DL100 offers a fully serial digital video encoding/decoding of uncompressed real time video providing adjustment free operation over a wide operational range. Using AGC technology 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 DL100 satisfies very critical applications requiring high quality video performance with high reliability. It is a the direct replacement equipment for upgrading old analog video monitoring network to the 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

- Digital Broadcast Video Transmission
- Real Time High Quality 3G-HD-SDI Video
- Compatible with all SMPTE3G SDI Rates
 - SMPTE259M SDI from 143 to 360 Mbps,
 - SMPTE344M 540Mbps,
 - SMPTE292M HD-SDI 1.485 Gbps,
 - SMPTE372M Dual Link HD-SDI 2,97 Gbps,
 - SMPTE424M Dual Speed 3G-SDI 2.97 Gbps
- AGC Single mode Transmission of 0 to 50 Km
- NEMA Temperature

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
DL100TST03	One Channel 3 HD SDI (Video Tx), SM ST, 50Km, +12 VDC
DL100RST03	One Channel 3G HD SDI (Video Rx), SM ST, 50Km, +12 VDC
DL100RRST03	One Channel 3G HD SDI (Video Rx), SM ST, 50Km, Rack Card

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



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Technical Specifications

HDTV Equipment Series

Model DL100

System:	
Error Rate	1 in 10 ¹² or Better
Indicators	PWR, Video
Optical:	
Transmitter	DFB Laser
Tx	1310nm
Receiver	PIN
RX	1310nm
Power Budget	20 dB @ SM
Connector	ST
Environment:	
Operating	-34 ^o C to +74 ^o C
Storage	-40 ^o C to + 95 ^o C
Humidity	98% Non-Condensing
Physical:	
Standalone	1.25" x 4.5" x 3.5"
Rackcard	19" x 8" x 3.5"

3G HD-SDI Video Interface:	
Channel	1 x 3G HD-SDI
Format	SMPTE 259M, 292M, 344M
	372M, and 424M
Speed	143Mps~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
Indicator	TXLEDs or RXLEDs
Power:	
Standalone	+12 VDC
Rack Card	90 ~ 240 VAC

Application

CCTV-PTZ DOME CAMERA



Video →



DL100T



Up to 50 Km SM Fiber

Video →



DL100R

HDTV Monitor



**Typical DL100T & DL100RR
In Traffic Monitoring Application**