



# Vi-Link

Fiber Optic Communications

## One Channel High Quality 3G HD-SDI Broadcast Video & Bi-Directional Data Over One Fiber

CCTV Equipment Series

Model DL115



### Product Description

**Vi-Link HD SDI Video equipment:** The DL115 is a fiber optic digital multiplexer that designed to transmit high quality digital broadcast 3G HD SDI video signal and Bi-directional EIA-RS232 or RS-422 Data (switchable) over one single mode cable. It is a cost effective selection for transporting high quality SDI camera pictures and control data from remote location to the operation center via long fiber optic cable.

The DL115 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.*

The DL115 offers a fully serial digital video encoding/decoding of real time high quality digital video providing adjustment free operation over a wide operational range. Using automatic gain control and state-of-the-art multiplexing, combining with CWDM technologies 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 DL115 satisfies very critical applications requiring high quality video performance with high reliability.

Applications include Broadcast Video Production, Video Editing, Unmanned Aircraft Vehicle Days & Nights Monitoring Systems, ITS Intelligent Traffic System, Metro & Railroad Monitoring System, 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
- Bi-Directional Data RS-232/422
- 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
DL115TST03	One Channel 3 HD SDI (Video Tx) with Bi-Directional Data, SM ST, 50Km, +12 VDC
DL115RST03	One Channel 3G HD SDI (Video Rx) with Bi-Directional Data, SM ST, 50Km, +12 VDC
DL115RRST03	One Channel 3G HD SDI (Video Rx) with Bi-Directional Data, SM ST, 50Km, Rack Card

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



## HDTV Equipment Series

Model DL115

<b>System:</b>	
Error Rate	1 in 10 <sup>12</sup> or Better
Indicators	PWR, Video, Data
<b>Optical:</b>	
Transmitter	DFB Laser
Tx	1550,1470nm
Receiver	PIN
RX	1310nm
Power Budget	20 dB @ SM
Connector	ST
<b>Environment:</b>	
Operating	-34 <sup>0</sup> C to +74 <sup>0</sup> C
Storage	-40 <sup>0</sup> C to + 95 <sup>0</sup> C
Humidity	98% Non-Condensing
<b>Physical:</b>	
Standalone	1.25" x 6" x 4"
Rackcard	19" x 12" x 5.5"

<b>3G HD-SDI Video Interface:</b>	
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
<b>Bi-Directional Data:</b>	
Channel	1
Speed	DC to 115 Kbps
Format	EIA RS-232 / RS-422
Connector	RJ45
<b>Power:</b>	
Standalone	+12 VDC @ 1 Amp
Rackcard	90~240 VAC

## Application

