



# Vi-Link

Fiber Optic Communications

## 8 Channels High Quality 3G HD-SDI Broadcast Video and 8 Channels Bi-Directional Data Over One Single Mode Fiber

HDTV Equipment Series

Model DL815



### Product Description

**Vi-Link HD SDI Video equipment:** The DL815 is a fiber optic digital multiplexer that designed to transmit up to 8 channels of high quality uncompressed digital 3G HD SDI video signals and Bi-directional EIA-RS232 or RS-422 Data over one single mode cable. It is a cost effective selection for transporting high quality SDI camera pictures and Asynchronous data links from the remote location to the operation center via a long fiber optic cable.

The DL815 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 DL815 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 DL815 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

- 8 Channels Digital Broadcast Video Transmission
- 8 Channels Bi-Directional Data
- Single Mode Fiber With CWDM Technology
- 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
- Fully Compliant with EIA RS-232/RS-422 standard
- Asynchronous Data Speed Up to 115 Kbps
- 90~240 VAC or +24 VDC, +28 VDC, -48 VDC
- NEMA Temperature

### Applications

- Broadcasting Video Transmission
- High Quality HD-SDI Video Monitoring in Traffic Control Center
- METRO Security System
- Unmanned Aircraft Video System
- Oil & Gas Perimeter Intruder Detection
- Military Applications
- Premise Networks
- Any High Quality Video Requirement

### Ordering Information

Model	Descriptions
DL815T23ST05	8 Channels 3G HD SDI (Video Tx) and 8 Channels Bi-Directional RS-232 Data, SM ST, 50Km, 90~240 VAC@0.5Amp
DL815R23ST05	8 Channels 3G HD SDI (Video Rx) and 8 Channels Bi-Directional RS-232 Data, SM ST, 50Km, 90~240 VAC@0.5Amp

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

## HDTV Equipment Series

Model DL815

<b>System:</b>	
Error Rate	1 in 10 <sup>12</sup> or Better
Indicators	Pwr, Video, Data
<b>Optical:</b>	
Transmitter	CWDM Lasers
Tx	1430nm~1610nm
Rx	1450nm
Receiver	PIN
Tx	1450nm
Rx	1430nm~1610nm
Power Budget	20 dB @ SM
Connector	ST
<b>Environment:</b>	
Operating	-34 <sup>o</sup> C to +74 <sup>o</sup> C
Storage	-40 <sup>o</sup> C to + 95 <sup>o</sup> C
Humidity	98% Non-Condensing
<b>Physical:</b>	
Dimensions	19" x 10" x 1.75"

<b>3G HD-SDI Video Interface:</b>	
Channel	8 x 3G HD-SDI
Format	SMPTE 259M, 292M and 424M
Speed	143M~540M, 1.485GB~2.97 GB
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	8
Data Type	Asynchronous
Speed	DC to 115 Kbps
Format	EIA-RS-232 / EIA-RS-422
Connector	RJ45
<b>Power:</b>	
AC	90~240 VAC @ 0.5Amp 50/60Hz
DC	+24 VDC, +28VDC, -48 VDC

## Application

### Remote Traffic Intersection

### Traffic Control Center

