



# Vi-Link

Fiber Optic Communications

## 18 Channels High Quality 3G HD-SDI Broadcast Video Over SM One Fiber

CCTV Equipment Series

Model DL1800



### Product Description

**Vi-Link HD SDI Video equipment:** The DL1800 is a fiber optic digital multiplexer that designed to transmit up to 18 channels of real time high quality uncompressed digital 3G HD SDI video signals over one single mode cable. It is a cost effective selection for transporting high quality SDI camera pictures from the remote locations to the operation center via long fiber optic cable.

The DL1800 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, 3G-SDI 2.97 Gbps.*

The DL1800 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 40 Kilometers, our digital signaling offers superior receiver output stability, which is unaffected by changes in fiber path attenuation due to aging or splicing points.

In addition, the DL1800 can be used in Multipoint to Single Point monitoring application. This Daisy-Chain configuration can link up to 18 x **DL1SB-xx** Transmitters to one **DL1800** Receiver

The extended temperature capability of the DL1800 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

- 18 Channels High Quality Digital Broadcast Video System
- Single Mode Fiber With CWDM Technology
- Real Time High 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
- 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
DL1800TST03	18 Channels 3G HD SDI (Video Tx) SM ST, 50Km, 90~240 VAC@0.5Amp
DL1800RST03	18 Channels 3G HD SDI (Video Rx) SM ST, 50Km, 90~240 VAC@0.5Amp

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



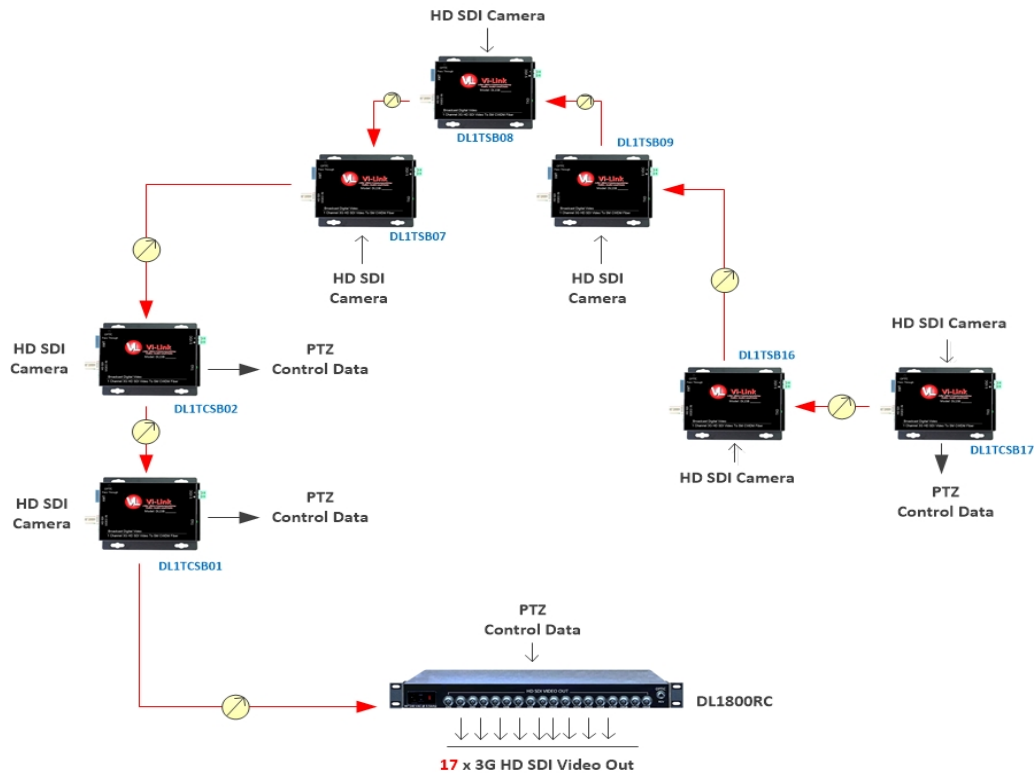
## HDTV Equipment Series

Model DL1800

<b>System:</b>	
Error Rate	1 in 10 <sup>12</sup> or Better
Indicators	PWR, CH1 .. CH18
<b>Optical:</b>	
Transmitter	CWDM Lasers
Tx	1270nm~1610nm
Receiver	PIN
Rx	1270nm~1610nm
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>3G HD-SDI Video Interface:</b>	
Channel	18 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>Physical:</b>	
Dimensions	19" x 10" x 1.75"
Weight	8 lbs
<b>Power:</b>	
AC	90~240 VAC @ 0.5Amp 50/60Hz
DC	+24 VDC, +28VDC, -48 VDC

## Application



### Typical DL1600T & DL1600R In Avionic Application