



Vi-Link

Fiber Optic Communications

8 Channels High Quality 3G HD-SDI Broadcast Video and 8 Channels Stereo Audio Over One Single Mode Fiber

HDTV Equipment Series

Model DL830



Product Description

Vi-Link HD SDI Video equipment: The DL830 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 Stereo Audio channels over one single mode fiber cable. It is a cost effective selection for transporting high quality HD-SDI camera pictures and broadcast stereo audio from the broadcast field locations to the media center via a long fiber optic cable.

The DL830 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 Stereo Audio channel is low noise 600 Ohms line impedance input/output

The DL830 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 DL830 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 Stereo Audio
- 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
- 600 Ohms Line Audio Input / Output
- 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
DL830TST05	8 Channels 3G HD SDI Video (Tx) and Stereo Audio Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC
DL830RST05	8 Channels 3G HD SDI Video (Rx) and Stereo Audio Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC

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



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Technical Specifications

HDTV Equipment Series

Model DL830

System:	
Error Rate	1 in 10 ¹² or Better
Indicators	Pwr, Video, Data
Optical:	
Transmitter	CWDM Lasers
Tx	1450nm~1610nm
Rx	1450nm
Receiver	PIN
Tx	1450nm
Rx	1450nm~1610nm
Power Budget	20 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:	
Dimensions	19" x 10" x 1.75"
Weight	7 lbs

3G HD-SDI Video Interface:	
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
Stereo Audio:	
Channel	8 Stereo / 16 Mono
Audio Input	Unbalanced
Signal Level	1 Vp-p
Impedance	600 Ohms
Freq. Response	10Hz To 20 KHz
Signal/Noise Ratio	> 70 DB (Weighted)
Connector	Terminal
Power:	
AC	90~240 VAC @ 0.5Amp 50/60Hz
DC	+24 VDC, +28VDC, -48 VDC

Application

Remote TV Station



DL830T

Up to 50 Km SM



Broadcast TV Center



DL830R

Typical DL830T & DL830R
In Broadcasting Video Application