



Vi-Link

Fiber Optic Communications

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

CCTV Equipment Series

Model DL130



Product Description

Vi-Link HD SDI equipment: The DL130 is a fiber optic digital Transmitter/multiplexer for transmitting 3G HD SDI broadcast video signal and Stereo Audio data over a single mode fiber optic cable. It is a cost effective selection for transporting and control broadcasting quality video images.

The DL130 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. It is also capable of transmitting 600 Ohms stereo audio up to 20 Khz.

The DL130 offers a fully serial digital video encoding/decoding of uncompressed real time video providing adjustment free operation over a wide operational range. Using AGC and 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 DL130 satisfies very critical applications requiring high quality video performance with high reliability. It is 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
- Uncompressed 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 Audio Input/Output
- +12 VDC or 90~240 VAC (Rack card)
- 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
DL130TST03	One Channel 3 HD SDI (Video Tx) with Stereo Audio, SM ST, 50Km, +12 VDC
DL130RST03	One Channel 3G HD SDI (Video Rx) with Stereo Audio, SM ST, 50Km, +12 VDC
DL130RRST03	One Channel 3G HD SDI (Video Rx) with Stereo Audio, SM ST, 50Km, Rack Card

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



HDTV Equipment Series

Model DL130

System:	
Error Rate	1 in 10 ¹² or Better
Indicators	PWR, Video, Audio
Optical:	
Transmitter	WDM Lasers
Tx	1310nm & 1550nm
Receiver	PIN
Rx	1310nm & 1550nm
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" x 6" x 4"
Rackcard	19" x 12" x 5.5"

3G HD-SDI Video Interface:	
Channel	1 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 Interface:	
Channel	1
Audio Input	Unbalanced
Signal Level	1 Vp-p
Impedance	600 Ohms
Freq. Response	10 Hz to 20 Khz
Signal/Noise Ratio	> 70 dB (Weighted)
Connector	Banana Jack
Power:	
Standalone	+12 VDC @ 1 Amp
Rackcard	90~240 VAC

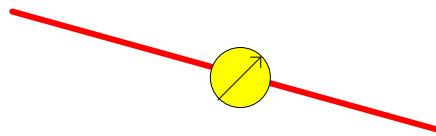
Application

Broadcast 3G HD-SDI Video and Stereo Audio



DL130T

Up to 50 Km SM Fibers



HD Video and Stereo Audio Monitors



DL130R

Typical DL130T & DL130RR In Broadcast Application