VL Vi-Link
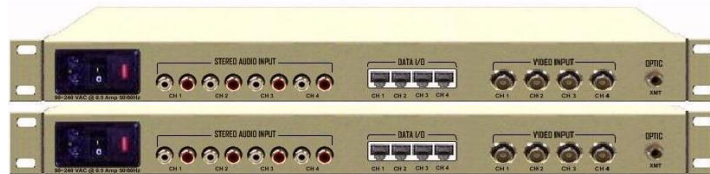### Fiber Optic Communications

4 Channels 3G HD-SDI Broadcast Video with Stereo Audio, Bi-Directional Data and 10/100/1000M Ethernet Link

HDTV Equipment Series

Model   DL430

Product Description

Vi-Link HD SDI Video equipment: The DL430 is a fiber optic digital multiplexer that designed to transmit/receive up to 4 channels of High Quality Digital 3G HD SDI video, 4 channels of Stereo Audio, 4 channels Bi-directional RS-232-/422 Data and 10/100/1000M Ethernet Link over one single mode cable. It is the most effective selection for transporting high quality Broadcasting Video signals with its Stereo Audio, along with Control Data signals and Gigabit Ethernet segment from the remote location to the operation center via long fiber optic cable.

The DL430 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 Control Data compliances with EIA-RS232 or IEA-RS422 interfaces with asynchronous data speeds up to 115 Kbps.*

The 10/100/1000M Ethernet channel supports store and data forwarding with extremely low latency. It is high-performance, cost effective and flexible solutions for a wide range of applications in the field of LAN campus network.

The DL430 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 DL430 satisfies very critical applications requiring high quality video performance with high reliability. Applications include Broadcast Video and Audio 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

- *4 Channels Digital Broadcast Video Transmission*
- *4 Channels Stereo Audio*
- *4 Channels Bi-Directional RS-232/422 Data*
- *1 Channel 10/100/1000M Ethernet*
- *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*
- *Asynchronous RS-232 / 422 Data Interface – Up to 115 Kbps*
- *Fully Compliant with IEEE802.3, IEEE802.3u, IEEE802.3ab standard*
- *AGC Single mode Transmission of 0 to 40 Km*
- *90~240 VAC Power Supplies*
- *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
DL415T23ST05	4 Channels 3G HD SDI Video **(Tx)** and Bi-Directional Data Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC
DL415R23ST05	4 Channels 3G HD SDI Video **(Rx)** and Bi-Directional Data Over Fiber, CWDM, SM ST, 50Km, 90~240 VAC
	*** Please Consult Factory for Additional Model Numbers***

HDTV Equipment Series

<div align="right">Model   DL430</div>

Error Rate	1 in 10^{12} or Better
Indicators	Pwr, Video, Audio, Data, Ethernet

Optical:

Transmitter	CWDM Lasers
Tx	1470nm~1610nm
Rx	1610nm
Receiver	PIN
Tx	1610nm
Rx	1470nm~1610nm
Power Budget	20 dB @ SM
Connector	ST

10/100/1000M Ethernet Interface:

Channel	1
Network Standard	IEEE802.3u 100Base TX/FX IEEE802.3ab 1000Base TX
Build-in Buffer	128 Kbytes
Auto Re-connect	512 bits collision-free packet
Support	VLAN, Tag VLAN, MTU. MPLS, PPPOE

Environment:

Operating	-34^0 C to $+74^0$C
Storage	-40^0C to $+95^0$C
Humidity	98% Non-Condensing

Power:

AC	90~240 VAC @ 0.5Amp 50/60Hz

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 Interface:

Channel	4 Stereo / 8 Mono
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

Data Interface:

Channel	4
Speed	DC to 115 Kbps per Channel
Format	RS-232 / RS-422
Connector	RJ45 (Block of 4)

Physical:

Dimensions	19" x 10" x 1.75"
Weight	7 lbs

Application

3G HD SDI PTZ Cameras   Stereo Audio

DL430T

Ethernet 10/100/1000M   Control Data

Up to 50 Km SM   **DL430R**

Ethernet 10/100/1000M   Control Data

Stereo Audio

Typical DL430T & DL430R Application