

VIS-1832

32X8 MIC/LINE INPUT FIBER OPTIC TRANSPORT



Description

The VIS-1832 is normally used in connection with the VIM-1832 or VIM-MY32 YGDAI cards to achieve a 32x8 fiber-optic transport system. The VIS-1832 / VIM-1832 or VIM-MY32 system is normally used as a transport for STAGE to FOH, with or without splits. This device contains 32 mic/line inputs (sends) and 8 analog line level outputs (returns). There is a 3 position gain switch for each input that sets the gain of the mic-pre. The normal settings for these switches are as follows: 0 = line level, 26 = mic level, 12 = high transient / very "hot" mic level. Each input has an associated LED indicator which begins flashing red 3dB before clipping. There are 4 +48v phantom power on/off switches with associated on/off LED indicators. Phantom power is applied in groups of 8 inputs.

The VIS-1832 is supplied with a pair of transmit/receive LC fiber connectors (other connector types possible). Up to 2 optical splits are available as an option. These splits (transmit only) are presented on single LC connectors. The VIS-1832 will operate at 48k or 96k. There is a "sync" status LED on the front (top) of the unit. This LED will be solid green when in sync, flashing red and green while looking for sync, and solid red when no sync is present.

The "control" connection is a TTL data port which appears on an EtherCon® connector. It allows LightViper accessory devices such as the DMX4o (DMX lighting control) or MD3 (RS422/232/MIDI) to be connected to the unit. The EtherCon® output of the DMX4i or RJ45 on the MD-3 is input to the VIM-1832 via the "control" EtherCon® connector, combined with the audio input data, and transported via fiber to the VIS-1832. This data is then output from the "control" EtherCon® connector on the VIS-1832 and input into a DMXo or MD-3, where the TTL data is translated back into the original format. AC power is via Neutrik PowerCon® connector. The VIS-1832 has an available 19" rack mount chassis version (VRK-1832). The unit can operate at any voltage 50-60Hz, 90-250v AC.

Features & Benefits

- Extremely low latency
- Fiber runs up to 2km (multimode)
20km (Singlemode)
- Quick & easy setting of input level
- Three way optical split
- 48k or 96k operation

Applications

- Theme Parks
- Churches
- Performing Arts Centers
- Broadcast Sports
- Live Sound Production
- Mobile Recording

Ordering Information

VIS-1832 - S - O2

Optical Connector

LC
O2 = Neutrik OpticalCon Duo
O4 = Neutrik OpticalCon Quad

Fiber Type

M = 62.5/125µm Multimode (1310)
E = 50/125µm Multimode (1310)
W = 62.5/125µm Multimode (850)
S = 9/125µm Singlemode (1310)

Mechanical Package

VIS = Floor Box
VRK = Rack Mount (5U)
VBZ = Flush Wall Mount

Architect's Specifications

The device shall provide 32 analog mic/line level inputs (sends) on Neutrik "combo" connectors AND 8 analog outputs (returns) on male XLR's. Each mic/line input shall include a 3 position gain switch. Settings include 0, 12 and 26. Each input channel shall contain an associated LED indicator which will begin flashing red at 3 dB below clipping. There shall be 4 +48v phantom power switches with associated LED on/off indicators that control phantom power on/off in groups of 8 channels. The device shall contain multi mode optics, with single mode optics available as an option. There shall be a transmit / receive fiber pair presented on LC connectors (other connector types possible). There shall be a 2 additional (optional) optical "splits", each presented on a single LC fiber connector. The device shall be capable of operating at 48k or 96k. The VIS-1832 shall contain an LED sync indicator on the top (front) of the unit. This LED will be solid green when in sync, flashing red and green while looking for sync, and solid red when no sync is present. There shall be a TTL data port labeled "control" presented on an EtherCon® connector. The device shall be convection cooled. The device shall operate at any voltage 50-60Hz, 90-250v AC utilizing a PowerCon® connector. The device shall measure 12.5" L X 8.75" W X 4" H. The device shall contain a 5x20 mm, 1A Slo-Blo power fuse. The device shall be the LightViper VIS-1832.

General Specifications

Total Harmonic Distortion + Noise*1	Less than 0.01%	1 KHz @ +4 dBu
Frequency Response	± 0.5 dB	20-20kHz @ +16 dBu
Dynamic Range	102 dB	
Crosstalk	5 dB above noise floor	
Sampling Rate	24 bit / 96kHz or 24 bit / 48 kHz	
Latency	630 µs analog input to analog output, 20 µs, digital input to digital output	
Phantom Power	+48 VDC is applied to balanced XLR inputs for powering condenser microphones via 6.8 KW current-limiting / isolation resistors. LED (green) indicates phantom power on per row of 8 sends.	
Operating Temp	0 to +50°C ambient temperature.	
Cooling	Convection cooled	
Send Channel LED	LED (red) flashes when input level reaches 3 dB below clipping. (+16 dBu)	
Sync LED	LED (green) indicates optical link OK, LED (red) indicates problem with optical link, LED (off) indicates no power.	
AC Power	Universal 90-250 VAC, 50/60 Hz, Neutrik PowerCon with fuse (VIS-1832)	
Max Current Rating	0.463 mA @ 90V	
On / Off Control Date + MIDI	RJ-45 connector for logic level control, CMOS or TTL at 2 MHz max per channel.	
Dimensions	12.5" L X 8.75" W X 4 H	
Weight	12 lb	

*1-Hum & Noise are measured with an AES17 compliant filter at 20 kHz. Temperature condition @+10 - +25° C.

Input Characteristics

Connection	Gain Setting	Voltage Gain*2	Sensitivity*3	S/N ref +0dBu	Overload	Clipping	Input Impedance	
Analog Inputs (Sends) 1-32*4	0	0(0 dB)	1.65 mVrms	-83 dBu	+16 dBu	+19 dBu	XLR TRS	1.8 KΩ 10 KΩ
	12	4 (12 dB)	412.5 mVrms	-83 dBu				
	26	20 (26dB)	82.5 mVrms	-83 dBu				

*1-Hum & Noise are measured with an AES17 compliant filter at 20 kHz. Temperature condition @+10 - +25° C.

*2-0dBu is referenced to 0.775Vrms.

*3-Sensitivity is the lowest level that will produce an output of +4dBu (1.23V).

*4-All XLR connectors are balanced, center Phone Jacks are balanced (T=+, R=-, S=GND) or unbalanced (T=+, R & S=GND)

Output Characteristics

Connection	Actual Source Impedance	For Use With Nominal	Output Level*2 Nominal	Max Before Clip	Connector*1
Analog outputs (Returns) 1-8 *1	150 Ω	600 Ω Lines	+4 dBu (1.23 V)	+19 dBu (7 V)	Neutrik XLR-3-332 type

*1-All XLR connectors are balanced.

*2-0 dBu is referenced to 0.775 Vrms.

Fiber Connection Characteristics

Connection	No. of Fibers	Optical Type	Optical Device	Connector Type
Primary Tx/RX	2	Multimode. Singlemode Optional	Optical Transceiver	LC. ST & Neutrik optional
Optical Splits (2 optional)	1	Multimode. Singlemode Optional	Optical Transceiver	LC. ST & Neutrik optional

