

LIO-8 – The Suite Solution

A perfect choice for mastering, editing or recording from your analog devices, the LIO-8 is the next step in Metric Halo’s modular interface line. Featuring the sonic heritage of the flagship ULN-8, the LIO-8 provides outstanding sonic performance for line-level interfacing, processing and monitoring.

The LIO-8 has eight channels of A/D capable of 192kHz operation. The converters are fed by Metric Halo’s third generation analog front end, with amazingly flat frequency and phase response as well as extremely low distortion.

The LIO-8 also features balanced sends for each analog input. This lets you integrate the LIO-8 into an analog workflow by providing an integrated “split” which can be used to feed a monitoring console, recorder or other device.

There’s a full complement of analog outputs - eight channels of digitally controlled analog outputs with full Monitor Controller integration as well as high quality headphone outputs.

Digital interfacing is provided by eight channels of AES I/O in singlewire mode. This gives you all eight channels at 192kHz operation, making the LIO-8 a perfect choice for demanding A/D/A needs.

The front panel provides full control of sample rate, clocking, and input / output levels. The front panel utilizes 495 multicolor LEDs to provide comprehensive metering and system feedback. Gain levels are shown using MH Digital Dual Vernier Technology™, and levels are controlled via nine stepped encoders with integrated pushbuttons.

It’s easy to use multiple interfaces together, making the LIO-8 a great choice for building a multichannel recording system. Three LIO-8’s give you 24 channels of A/D/A conversion and 24 channels of AES I/O. Patch into your digital or analog console and you’re ready to track.

Along with all the hardware goodness of the LIO-8, you also get all the software that Metric Halo products are known for. MIO Console provides software based control of the unit including the integrated Monitor Controller. The Record Panel provides a streamlined interface for multitracking, including BWF timecode support. ConsoleConnect gives you total recall of your MIO environment from any DAW. You get the 2d basic plug-in package, multiple multichannel mixers with support for mono to 7.1 mixing, multiple busses, arbitrary sends, insertable zero-latency plug-in processing, completely customizable mults, Metric Halo’s exclusive Character processing and much more.

Keeping with Metric Halo’s “Future Proof” philosophy, the LIO-8 can grow with your needs. Should you want to step up to our ULN-R mic preamps, you can add 4 or 8 channels (at purchase or retrofit). You can also add a +DSP license, which adds over 100 plug-ins and unleashes the full power of the 2d DSP processor.

Key Features

- 8 Channels of Archival Grade 192k A/D converters
- 8 Channels of Archival Grade 192k D/A converters
- 2 Channels of Archival Grade 192k D/A converters with integrated headphone amp
- 2 analog outputs on balanced TRS connectors
- Analog Balanced Send architecture for onboard split
- 2 Channels of Exceptional DI inputs suitable for instrument or turntable inputs
- Integrated Surround Monitor Controller
- 8 Channels of 192k capable AES Inputs and Outputs
- Comprehensive Front Panel Controls
- Comprehensive, High Resolution 15 Segment Front Panel Metering
- Comprehensive Clocking (Internal, WC, AES)
- Dedicated internal clock sources for all rates
- Dedicated MIDI I/O for Control Surface interfacing
- Dedicated SMPTE LTC I/O
- Rock-solid, time-tested fifth-generation software and drivers
- Optional 4 or 8 Channels of ULN-R Preamps
- Optional +DSP license



LIO-8 Technical Specifications

Rails	
Analog Rails (low power)	±9.9 Volts
Analog Rails (high power)	±12.6 Volts
Maximum I/O Levels (Balanced)	
Peak Line Output @ 0 dBFS (no jumper/low power)	+18.5 dBu
Peak Line Output @ 0 dBFS (output jumper/low power)	+22.0 dBu
Peak Line Output @ 0 dBFS (output jumper/high power)	+24.5 dBu
Analog Send Max Output	+21.5 dBu
Line In Max Input	+24.5 dBu
Output Impedance	5 Ω
Monitor Controller	
Nominal FS output (Balanced) Output Jumper Off	-19.0 dBu
Nominal FS output (Balanced) Output Jumper On	-12.0 dBu
Maximum Output	Same as Line
Gain Range	-96 dB to +30 dB
Gain Precision	±0.05 dB
Gain Step	0.5 dB
Line Input + ADC	
Input Impedance	10 kΩ
Dynamic Range (-60 dB, flat 0-22.05 kHz, typ)	115 dB
Dynamic Range (-60 dB, A-weighted, typ)	118 dB
Noise Floor (flat 0-22.05 kHz, typ)	115 dB
Noise Floor (A-weighted, typ)	117.9 dB
THD D/A/A/D loop @ -12 dBFS	0.0005 %
THD D/A/A/D loop @ -0 dBFS	0.0015 %
Crosstalk @ 1kHz	-127 dB
IMD 1k component (19 kHz/20kHz @ +8dBu)	-104 dBu
Gain Range	-12 dB / +31.5 dB
Gain Precision	±0.05 dB
Gain Step	0.5 dB

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+0/-0.1dB @ fs = 44100 Hz	5.7 Hz - 20.5 kHz
+0/-1.0dB @ fs = 44100 Hz	1.8 Hz - 21.0 kHz
+0/-0.1dB @ fs = 96000 Hz	5.7 Hz - 43.9 kHz
+0/-1.0dB @ fs = 96000 Hz	1.8 Hz - 45.4 kHz
+0/-0.1dB @ fs = 192000 Hz	5.7 Hz - 42.1 kHz
+0/-1.0dB @ fs = 192000 Hz	1.8 Hz - 64.7 kHz
5° low-end in-channel phase deviation point	10.7 Hz
Interchannel phase 0 Hz - 20 kHz	< ±0.05°
Crosstalk from SMPTE Input	< -142 dB
Software	
Driver	CoreAudio Mac OS X
Mac OS X	10.5.8 or newer
Architectures	PPC, Intel
MIO Console	Included
Record Panel	Included
LTC Decoder	Included
Mixer	Included
+DSP License	Optional
Power	
Voltage	14v - 28v
Power	24 Watts
Power Source	DC supply, battery
Case	
Weight	5.7 lbs / 2.6 kg
Dimensions	17" x 13" x 1.72" 432 x 330 x 44 mm
Included Accessories	
World ready power supply, rack ears, .5 & 4.5m FW800 to 400 cables	

