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HEINRICH DMX108D Matrix Processor Owner's Manual

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HEINRICH DMX108D Matrix Processor

Product Information

Product Name: Matrix Processor

Model: DSP0808 Matrix Processor

Model Number: DMX108D

Feature: As per our company policy, one of the constant product improvements, the right is reserved to modify product specifications without prior notice.

Specification

- **Frequency response:** 20k (balanced), 10k (unbalanced)
- **Input impedance (balanced/unbalanced):** 300k (balanced), 150 (unbalanced)
- **Output impedance (balanced/unbalanced):** 24dBu
- **Maximum Input/Output level:** SNR(dB@A-Weighted, +4dBu)
- **Dynamic Range:** 93
- **THD+Noise:** <0.003% @ unweighted, +4dBu
- **Channel Separation:** >92dB @ 1kHz, +4dBu
- **CMRR Circuit Gain(dB):** >100dB @ 1kHz, unity gain, +4dBu
- **Phantom power:** +48V, 10mA
- **Logic Input:** 0~3.3V DC Analog input and logic level input each channel, could be connected with logic trigger or potentiometer
- **Logic Output:** 5V, 10mA
- **External Input Control:** 8 Channel, 0-3.3V DC Analog input and logic level input each channel, could be connected with logic trigger or potentiometer
- **Internet Power:** 100M connect GUI AC 90~260V, 50-60Hz
- **Height:** 482x231x45mm (WxDxH)

Note: As per our company policy, one of the constant product improvements, the right is reserved to modify product specifications without prior notice.

Product Usage Instructions

1. Connect the Matrix Processor to your audio source using balanced or unbalanced inputs.
2. Ensure the input impedance matches the type of input used (300k for balanced, 150 for unbalanced).
3. Connect the output of the Matrix Processor to your desired audio output device.
4. Adjust the input/output levels to your preference, keeping in mind the maximum input/output level of 24dBu.
5. If necessary, activate the phantom power by setting it to +48V.
6. Utilize the logic input and output features for additional control options. Connect the logic trigger or potentiometer to the corresponding channels.
7. If required, connect an external input control device to the Matrix Processor for further control capabilities.
8. If using the Internet Power feature, connect the Matrix Processor to your network using a 100M connection.
9. Power on the Matrix Processor using an AC power source ranging from 90V to 260V, with a frequency of 50-60Hz.

FEATURE

- High-speed processing DSP Chip, the new generation of AFC algorithm to eliminate the feedback faster and make system more stable.
- Application includes Auto Mixer (Limiter threshold and Gain), Routing, Audio Processing and special signal extension Processing.

- 8-channel Phantom Power Microphone/Line input, 8-channel circuit Output;
- 8-channel External control input and 8- channel Logic output.
- Microphone Pre-amplifier, Compressor, Auto Gain Control, Ducker, Auto Mixer, Matrix Mixer, AEC, Crossover, Equalize PEQ, Limiter and Delay. Provide a complete set of Audio Process solution.
- Connect with GUI interface directly through Ethernet, Easy and efficient to set.
- Power off automatically save function.
- RS232 interface connect to 3rd party communication.
- Extensive GPIO Capabilities.
- Option to configure with Dante Modules.
- 96KHZ sampling frequency, 32-bit DSP processor, 24-bit A / D and D / A conversion.

SPECIFICATION

Model	DMX108D/DSP0808				
Frequency response	20Hz-20kHz, ±0.5dB				
Input impedance(bal/unbal)	20kΩ (bal) , 10kΩ (unbal)				
Output impedance(bal/unbal)	300kΩ (bal) , 150Ω (unbal)				
Maximum Input/Output level	24dBu				
SNR(dB@A-Weighted,+4dBu)	93	9222	92	91	85
	93	9292	92	91	85
Dynamic Range	109, A-Weighted				
THD+Noise	< 0.003%@unweighted,+4dBu				
Channel Separation	>92dB@1kHz, +4dBu				
CMRR	>100dB@1kHz,unity gain, +4dBu				
Circuit Gain(dB)	0	12	24	36	40
	0	12	24	36	40
Phantom power	+48V, 10mA				
Logic Input	0~3.3V				
Logic Output	5V, 10mA				
External Input Control	8 Channel, 0-3.3V DC Analog input and logic level input each channel,could be connected with logic tragger or potentiometer				
Internet	100M connect GUI				
Power	AC 90~260V, 50-60Hz 50-				
	AC 90~260V,				
Height	482x231x45mm(WxDxH)				

As per our company policy one of the constant Product improvement the right is there for reserved to modify product specications without prior notice.

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Documents / Resources

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DMX108D, DSP0808, DMX108D Matrix Processor, Matrix Processor, Processor

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