



P48D / P48

Professional Audio Processors

P48D/P48 Professional Audio Processor integrates a variety of DSP functions, including compressors, crossovers, dynamic equalizers, delays, equalizers, input/output FIR filters, phase filters, and mixing matrices. With intuitive PC software, users can easily tune and monitor, ensuring the efficient construction and flexible operation of professional audio amplification systems.

Highlights

■ Ultimate Sound Quality, Superior Performance

Equipped with high-performance AD/DA converter chips and a 96kHz 24-bit sampling rate, it accurately captures sound details, enhances dynamic range, reduces distortion, and delivers pure sound quality and efficient performance, meeting professional audio requirements.

■ High-performance DSP Processing Technology

The 32-bit floating-point digital processor optimizes signal processing, with 3 bands of dynamic equalization (DEQ) on each channel that automatically adjust the frequency response. The combination of IIR and FIR filters preserves the original characteristics of the audio signal, generating precise linear phase curves, providing a balanced, natural, and transparent audio experience.

■ 2000ms Ultra-Long Delay, Precision to 0.01ms

The system allows for input and output delays of up to 2000ms, with a precision of 0.01ms. This ensures precise synchronization in any audio application.

■ Intelligent Audio System Management

Remote Monitoring and Control

The ability to remotely monitor and control the status of audio equipment, allowing for real-time adjustments to settings, greatly enhances the convenience and efficiency of monitoring.

Centralized Management and Maintenance

P48D/P48 manages the audio system centrally through the network, unifying software updates, parameter configuration, and maintenance, which effectively improves the efficiency of operation and maintenance.

Simplified Installation and Cost Reduction

Transmitting audio signals via the network reduces reliance on traditional audio wiring, simplifying the installation process and reducing construction costs and complexity.

		P48D	P48
Sampling Rate		96kHz	96kHz
AD/DA Converter		24bit	24bit
Audio System Delay		<2.1ms (analog input- analog output)	<2.1ms (analog input- analog output)
Analogue Input		4-channel electronically balanced input	4-channel electronically balanced input
AES Input		4-channel AES input	4-channel AES input
Dante Input		4-channel Dante input	/
Input Interface		4x Female XLR	4x Female XLR
Analogue Output		8-channel electronically balanced output	8-channel electronically balanced output
Dante Output		4-channel Dante output	/
Output Interface		8x Male XLR	8x Male XLR
DSP	EQ	Each input 15-band EQ, each output 10-band EQ EQ types: PEQ, High/Low Shelf, All Pass, All Pass2, VariQ High/Low Pass, Phase, Elliptic High/Low Pass, High/Low Pass, Band Pass, Notch	
	DEQ	Each input with a 3-band DEQ	
	Delay	Input delay: each channel 2000ms , Output delay: each channel 2000ms	
	FIR	Input FIR :each channel 512Taps(@48kHz), Output FIR:each channel 512Taps(@48kHz)	
	Crossover	Butterworth, Linkwitz-Riley, Bessel:6 dB/oct to 48dB/oct	
	Limiter	Compressor + Limiter	
Input Impedance		≥10kΩ	
Output Impedance		<100Ω	
Maximum Input/Output Level		≥+20dBu	
Requency Response		±0.3dB, 20Hz-20kHz	
S/N Ratio		≥113dB @1kHz, A weighted	
THD+N		≤0.002% @1kHz, 0dBu, A weighted	
Crosstalk		≥105dB @1kHz	
Connection Type		USB/RS232/TCP/IP	
AC Power Operating Range		100-240V/(±10%, 50-60Hz)	
Power consumption		<20W	
Rack space		1U	
Dimension(WxHxD)		483x44x265mm	
Net weight		3.6kg	