



A504 DSP

4-CHANNEL AMPLIFIER WITH DSP

→||← Ultra-Thin Design

Matrix

4Ω 4Ω Minimum Imp.

DSP

The A504DSP combines a lightweight, 4 x 500W (2 x 1000W) amplifier, with a powerful DSP engine that can be configured to suit a wide range of tasks, without the need for additional equipment, to drive a wide range of loudspeaker systems. The close integration of processing and amplification allows the DSP to monitor and better adapt to amplifier behavior, making dynamics processing far more accurate and effective than that typically achieved with separate components.

Product Type

Class D Amplifier with DSP

Frequency Response

20Hz - 20kHz (+0 / -1dB)

Amplifier Technology

Class D

Number of Amplifier Channels

4 Channels

Amplifier Power - Stereo 8Ω

4 x 250W

Amplifier Power - Stereo 4Ω

4 x 500W

Amplifier Power - Bridge 8Ω

2 x 1000W

Amplifier Gain

34dB±0.5dB

Speaker Output

4Ω - 16Ω

Damping Factor

>180

THD+N

<0.15%

SNR (Signal to Noise Ratio)

>95dB

Crosstalk

>50dB

Input Sensitivity

0.9V - 1.1V (+0 / -1dBv)

Input Impedance

Balanced: 20kΩ | Unbalanced: 10kΩ

DSP Technology

4 IN x 4 OUT - 32bit | 192kHz DSP

Latency

0.66ms

DSP Adjustable Parameters

PEQ, HPF, LPF, HSF, LSF, Compressor, Gate, Level, Delay, Polarity, Mute

Delay Adjustment

62.4ms / 21.42m per Channel

Control Type

On the Amplifier Encoder and LCD | Via USB and Supplied Software "A504 DSP Controller"

Audio Signal Inputs

Analog Audio

Input Connectors

4 x Neutrik XLR

Audio Signal Outputs

None

Output Connectors

None

Speakers Output Connectors

4 x Neutrik NL4

Protections

Full short circuit, open circuit, thermal, ultrasonic, and RF protection stable into reactive or mismatched loads, turn ON/OFF, muting, tried crowbar

Operating Temperature Range

0°C - 40°C

Cooling Type

Speed Controlled Fan

Power Supply

Switching Mode Power Supply (SMPS)

Power Input

AC 110V - 120V | AC 220V - 240V 50Hz/60Hz ±10%

Mains Connector

Standard IEC socket

Power Consumption

1100W

Fittings

1U 19" Rack

Dimensions (WxHxD)

483 x 44 x 290mm (19 x 1.73 x 11.4 in)

Net Weight

6kg (13.2lb)

Shipping Weight

7.2kg (2.2 lb)