

IPX 2400



Compact 2,400 Watt 2-Channel DSP Controlled Power Amplifier

Product Features

- Compact 2,400 Watt, 2-channel amplifier with DSP control for touring applications
- Low mains current draw with proven IDEEA technology for power conservation
- Highly advanced DSP with 40 real-time multi-slope Parametric EQ's
- 50 user presets for system configuration and setup
- Networked control via touchscreen user interface
- AES3 and analogue inputs with redundant failover
- Renowned Speaker Protect Limiter (maxSPL) for optimal speaker match and protection
- 4-channel input mixer for multi-input mixing and switching
- Backlit display with navigation buttons and encoder for front panel setup
- Horizontal output VU meters on display in operating mode
- Binding post and Neutrik speakON connectors
- Universal power supply supports 100 - 240 V at 50 or 60 Hz
- Fast network setup with auto-discovery and identification of amplifiers
- FIR-X mode Create speaker presets with FIR and IIR filters for single and multi-way loudspeakers

IPX Series

High power density, competitive cost and power consumption efficiency make the IPX 2400 the ideal compact yet powerful amp solution whether it's for permanent installations, portable corporate AV systems, or live PA setups.



Muscles Meet Mind

Delivering 2 x 1200 W at 4 ohms, the IPX 2400 packs reliable power and performance into a single rack space. But raw muscle power is not enough. At the heart of the IPX platform, you'll find a cutting-edge DSP engine equipped with up to 40 real-time, multi-slope parametric EQs along with adjustable gain, input and output delay – and both high- and low-pass filters adjustable to any frequency.

The DSP also provides extensive protection for your loudspeaker system in the form of the innovative software-controlled Speaker Protect Limiter. You can configure this with ease from within the IPX Controller software.

Flexible I/O and Conversion Features

With AES3 digital inputs standard, IPX 2400 connects directly to digital console stage boxes or accepts AES input along with on-board sample rate conversion between all commonly used sample frequencies within the digital domain, eliminating a D-A/A-D conversion cycle. Additionally, AES3 inputs can be set for automatic fail-over to analog (perfect redundancy solution for keeping the show going, or in case of installations – maintaining system integrity for mission-critical PA/VA system applications). Further, input mixing is available for all four inputs, and at the power output end, connections are available on binding posts or industry standard twist-locking speaker connectors.

IPX Controller

At the heart of IPX Series is the intuitive and fast GUI of the IPX Controller software, giving you powerful hands-on control over just about every aspect of DSP performance for each device on the network. IPX Controller is available for PC and Mac and it was designed from the ground up with touchscreen operation in mind. Quite simply, IPX Controller gives you an edge when it comes to tuning your system for perfection.



Specification

Maximum Output Power*

2 Ω per channel, stereo	800 W
4 Ω per channel, stereo	1200 W
8 Ω per channel, stereo	600 W

Controls

Front	Power switch DSP section rotary push-encoder Buttons for Menu, Back, Mute (per channel)
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System

Number of channels	
Output voltage	100 V peak / 70 Vrms / 39.2 dBu
Input sensitivity for maximum output voltage	6 dBu
Output current	20 Arms
Output circuit type	Class-D
THD+N	< 0.1%, 20 Hz - 20 kHz @ 1 W < 0.05% @ 1 kHz, 1 dB below clip
Output noise	-65 dBu, A-weighted
Signal-to-noise	> 104 dB
Channel crosstalk	> 80dB @ 1 kHz
Frequency response	10 Hz to 20 kHz, +0.5/-1 dB 5 Hz to 40 kHz, -3 dB
Common mode rejection (CMR)	> 50 dB
Gain (all DSP controls set to 0 dB)	33 dB

Indicators

Power	Red LED
Limit, per channel	Red LED
Signal / mute, per channel	Green/Red LED