

12" POWERED DANTE LOUDSPEAKER SYSTEM



The PA-L12D is bi-amplified using two dedicated high resonance digital amplifiers, featuring outstanding efficiency, with each amp delivering up to 1,200 Watts (LF) and 400 Watts (HF) under 8 ohms.

Each speaker channel is under control by a powerful 64-bit digital processing unit. Each of these on-board DSP units includes a module dedicated to managing core system parameters including system EQ, time alignment between sections, and limiting. This level of control makes the PA-L12D fully protected and able to operate at the full extent of its abilities.

High-power Class D amplifier

Loaded with up to 1,600 watts of Class D power, the PA-L12D is a beast. It delivers up to an impressive 127 dB SPL, so go ahead and crank it up as the PA-L12D can take it. Enjoy maximum power, along with stable, worry-free operation, thanks to a universal switching-mode power supply. Beyond that, this amp was optimized to match the PA-L12D's transducers, ensuring top-tier sound quality.

Power, Performance, and Easy System Integration

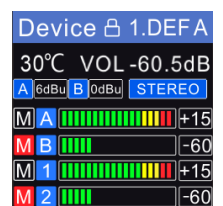
The PA-L12D offers superb clarity and best-in-class SPL performance. This 2-way bi-amped PA speaker boasts a high-power up to 1,600-watt Class D amplifier and the widest 55 Hz to 20 kHz frequency range, and it can tackle any application you throw at it. Sophisticated DSP processing yields high-resolution sound with super-low latency, while an intuitive IPS LCD makes dialling in your settings a piece of cake. Built-in Dante capabilities enable smart system integration with any other Dante devices. The PA-L12D employs a lightweight yet durable plywood cabinet with a premium-grade German polyurea coating.

Dante Audio Networking

Dante technology from Audinate provides digital audio distribution over standard local area networks. Dante allows high-resolution audio channels to be transported uncompressed across a switched Ethernet data network using standard TCP/IP protocols while meeting the stringent quality requirements of professional audio. Integrating the PA-L12D with any Dante devices is a breeze. The PA-L12D features a built-in 2-in/2-out Dante interface and sample rate conversion, allowing 48 kHz device compatibility. You can also combine the PA-L12D's Analog I/O with Dante I/O, supplying you with flexible routing and system configuration. Or use the Dante break-in and break-out function to act as a simple I/O box. With Dante, the PA-L12D loudspeakers can receive high-resolution digital audio from remote devices on the Dante network, such as from any Sing Easy DNAD, DNADA or DNXPA processors. The PA-L12D loudspeakers can be linked to Dante-equipped devices through standard network hardware, including the Gigabit switches built into Dante-enabled processors, or by connecting into a network infrastructure.

FEATURES

- 2-way powered loudspeaker with 1.73" (44 mm) HF and 12" (310 mm) LF drivers
- Boasts a high-power up to 1,600-watt Class D amplifier and widest 55Hz to 20kHz frequency range
- Intuitive 1.4" (35.56 mm) IPS LCD screen for quick settings and monitoring
- Dante Controller, Dante Via, and Dante Virtual Sound Card compatible
- Large dynamic high-performance woofer for high-power capacity and very lightweight
- 90° x 70° coverage pattern for even and smooth response on and off-axis
- Advanced DSP tuning employs a combination of FIR filtering and corrective EQ to minimize phase distortion
- Precision-engineered crossover for optimal power response and performance in the vocal midrange region
- Single-position pole socket for applications requiring pole mounting
- DSP protection safeguards your power supply, power amplifiers, and transducers against damage
- Optimized factory presets and an intuitive IPS screen makes operation easy
- Built-in 2-in/2-out Dante interface enables smart system integration with any other Dante devices
- Universal switching-mode power supply offers maximum power, along with stable, worry-free operation
- Attractive 16-gauge protective screen-backed steel grille
- Lightweight yet durable 15mm plywood cabinet with a premium-grade German polyurea coating



LOUDSPEAKER PROCESSING

Crossover	Multiple filter types (Butterworth, Linkwitz-Riley, Bessel)
Delay	120ms (input) / 20ms (output)
Control and monitoring interface	Full configuration and real-time monitoring via PC

AUDIO PERFORMANCE

THD + N 20Hz-20kHz for 1W	<0.05%
Input impedance	Balanced > 10 k Ω
Processing	64-bit floating-point processing resolution
A to D conversion	24-bit
Internal sample rate	48 kHz

LED, CONNECTORS AND BUTTONS

Protection LED	Protect, Clip, and Signal
Intuitive LCD screen	1.4" (35.56 mm) IPS LCD
Input connectors (Analog)	1 x Male XLR (Pin 2+, Pin 3-), 1 x Female XLR (Pin 2+, Pin 3-)
Input connectors (Dante)	2 x RJ45 etherCON
Mains connectors	2 x powerCON
Control	USB-B
Buttons	Power, volume, and rotary knob
Encoder	Adjust, Set

ACOUSTICAL SPECIFICATIONS

Operating frequency range	55Hz to 20kHz
Number of ways	2
Maximum SPL	127 dB
Horizontal coverage	90°
Vertical coverage	70°
Presets	99 user-definable presets

TECHNICAL SPECIFICATIONS

Transducer (HF)	Single 1.73" (44 mm)
Transducer (LMF)	Single 12" (310 mm)
RMS capacity (HF)	100W @ 8 Ω , Class-D
RMS capacity (LMF)	300W @ 8 Ω , Class-D
Peak capacity (HF)	400W @ 8 Ω , Class-D
Peak capacity (LMF)	1,200W @ 8 Ω , Class-D
Enclosure type	Bass-reflex
Crossover type	DSP
Crossover frequencies	1.6 kHz

PHYSICAL SPECIFICATION

Height	600 mm
Width	380 mm
Depth	400 mm
Weight	25 Kg



