

LA-8300 LA-212SUB

Compact Active Array Loudspeaker System



Description

The LA-8300 features eight 3-inch high-efficiency neodymium midrange drivers and eight 1-inch direct-radiating neodymium tweeters. All transducers are sourced from Lavoce, an Italian premium loudspeaker component manufacturer, delivering high midband efficiency, ample energy reserves, transparent tonal character, and crisp, articulate high-frequency response.

The system employs a compact, high-strength enclosure constructed via precision CNC machining combined with complex interlocking joinery for superior pressure resistance. The cabinet surface is finished with water-based eco-friendly paint, offering both wear resistance and an aesthetically refined appearance. The loudspeaker system is complemented by two 12-inch neodymium woofers, providing full-bodied, powerful low-frequency extension with authoritative depth.

A high-power single-channel Class-D amplifier module with integrated DSP filtering and control system enables convenient storage and recall of scene-specific presets, ensuring faithful sound reproduction and system stability across diverse application scenarios. The amplifier module is equipped with an active cooling mechanism to facilitate heat dissipation and maintain operational reliability. Professional-grade rigging hardware is incorporated, allowing effortless adjustment of the speaker's suspension angle to achieve optimal coverage based on site-specific requirements. The system is designed to work in conjunction with the LA-8300 compact line array loudspeaker.

Features

- Utilizes imported neodymium magnetic drivers for superior electroacoustic performance.
- Incorporates a built-in DSP audio processing module enabling precise system calibration and fine-tuning.
- Employs a high-power single-channel Class-D active amplifier module for efficient power delivery.
- Characterized by a compact footprint, lightweight construction, and high operational efficiency.
- Designed for portability and ease of installation, facilitating rapid deployment.
- Suitable for a wide range of applications, including churches, conference rooms, theaters, theme parks, museums, and hotels.

Specifications

Model	LA-8300
Unit Component	MF 8×3" neodymium magnetic unit, HF 8×1" neodymium magnetic unit, with cooling module
Horn Coverage (-6dB)	120°(H)×16°(V)
MAX. SPL. (PEAK)	124dB (continuous)\130dB (peak)
Frequency Range (±0.25dB)	20Hz – 20KHz
Signal Processing	48kHz, 24-bit DSP processor, delay: input 120ms/output 20ms, filter, EQ, compressor, limiter
Amplifier Power	Class-D, 8Ω/2×300W
Speaker Power	350W
S/N Ratio	>100dB
Damping Factor	>300 (under the condition of 8Ω load, 400kHz)
Distortion	<0.05% (under the condition of 20Hz~20KHz, 8Ω load, 3dB)
Gain	34dB
Signal Input/Output	XLR 3-pin female line-level input
Power Input/Output	Neutrik PowerCon (Max: 15A)
Power Supply	AC100~240V, 50/60Hz
Control	On/Off switch
Protection	Input current limiter, short circuit protection, on/off mute, DC fault protection, power limiter
Case Material/Painting	15mm selected multi-layer wood panel, black polyurea paint
Product Dimensions (H×W×D)	360mm×260mm×288mm
Net Weight	13Kg

Model	LA-212SUB
Unit Component	LF 2×12" (300mm) neodymium magnetic woofer
MAX. SPL. (PEAK)	134dB
Frequency Response (±3dB)	50Hz~300Hz
Digital Amplifier Module	DSP processor, class-D amplifier
Amplifier Channel/Power	Single channel, 1500W/8Ω
Subwoofer Power	800W
THD	<0.1%

Input/Output	XLR (balanced)
Power Supply	AC110V~250V, 50Hz/60Hz
Product Dimensions (H×W×D)	706mm×400mm×580mm
Net Weight	38.5Kg

Connection and Installation

