

LAM1432 & LAM1432SA

Compact Active Array Loudspeaker System



Description

The LAM1432 is a compact two-way passive loudspeaker system. The system comprises two 1.75-inch neodymium high-frequency drivers and a single 10-inch neodymium low-frequency driver, forming a configuration with substantial headroom that delivers an exceptionally high SPL-to-weight ratio. A specially designed midrange phase plug is positioned in front of the woofer to mitigate comb-filtering interference in the midband and optimize off-axis directivity. The tweeter section is coupled with a plane-wave transducer to ensure coherent wavefront propagation.

The LAM1432SA is an actively powered planar-waveguide loudspeaker system purpose-built to extend the low-frequency response of the LAM1432. This subwoofer features an 18-inch neodymium long-excursion driver. The LAM1432SA employs an all-steel rigging system, allowing for both ground-stacked and flown configurations in combination with the LAM1432. The enclosure is constructed from 13-ply plywood and finished with a durable textured coating. A built-in three-channel digital power amplifier module is integrated to simultaneously drive one LAM1432SA and two LAM1432 units. The system incorporates a one-input, three-output DSP audio processing module for precise tonal calibration, and enables remote parameter adjustment via an RJ45 network interface connecting to a PC.

It is worth noting that in this combined system, the LAM1432 utilizes all-neodymium Celestion drivers sourced from the UK, delivering clear, detailed, and natural sonic character. The LAM1432SA features an 18-inch Celestion low-frequency driver with a 100 mm voice coil and 220 mm magnetic circuit, producing powerful and stable bass response. Its built-in German-engineered amplifier module and original German DSP processor ensure precise signal processing, system stability, and wide dynamic range. Together, they form an upgraded system that delivers high-fidelity, detailed, and well-layered sound reproduction.

Features

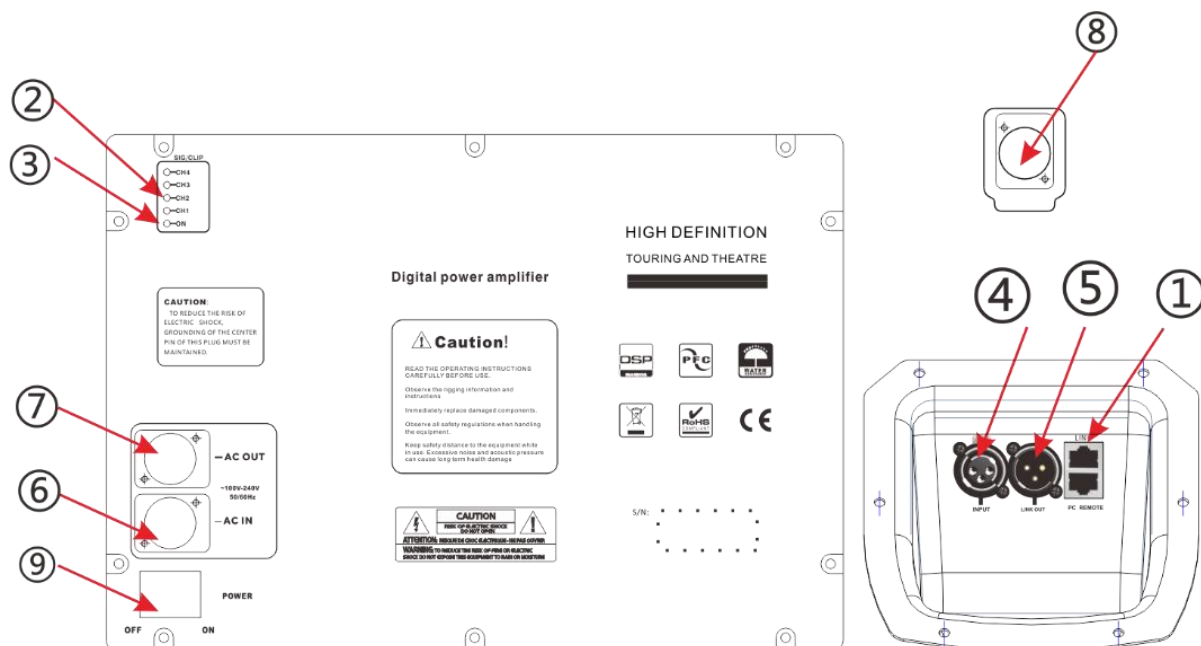
- A compact line array loudspeaker system featuring an integrated digital signal processing (DSP) engine.
- Characterized by a diminutive footprint and sleek aesthetic, supplied with a dedicated flight case for enhanced portability and rapid deployment.
- Integrated design streamlines installation and ensures straightforward operation.
- Enclosure incorporates wear-resistant surface treatment, complemented by all-aluminum suspension hardware for durable and reliable rigging.
- The system is ideally suited for a wide array of applications, including small-scale mobile performances, sports arenas, theaters, nightclubs, banquet halls, and similar venues.

Specifications

Model	LAM1432
Unit Structure	10"MF×1, 1.75"HF×2
Frequency Response	65 Hz – 18 kHz
Sensitivity	MF: 96±2dB / HF: 104±2dB
MAX. SPL.	MF: 120±2dB / HF: 126±2dB
Continuous Power (AES)	MF: 350W / HF:120W
Rated Impedance	MF: 8Ω / HF: 16Ω
Single Speaker Directivity (H×V)	100°×10°
Color	Black
Dimensions (W×H×D)	500mm×296mm×342mm
Weight	21kg

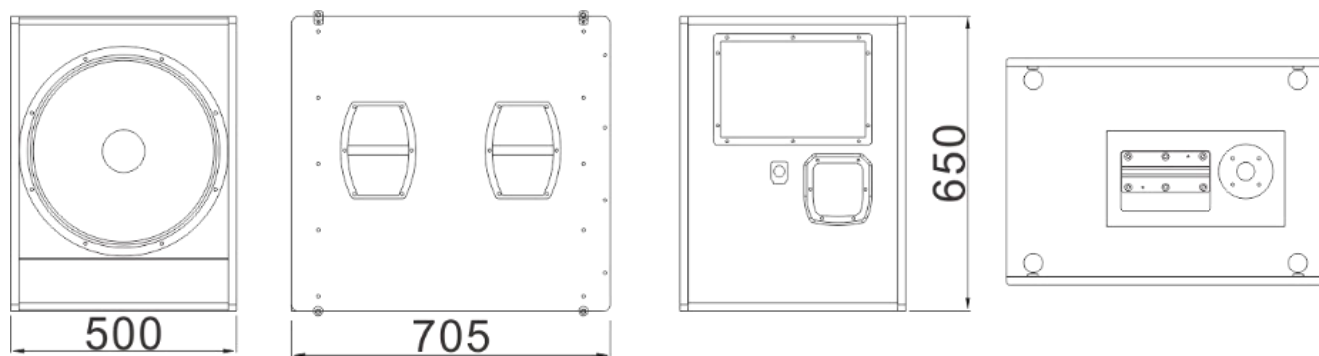
Model	LAM1432SA
Unit Structure	18" woofer ×1
Frequency Response	40Hz – 220 Hz
Speaker Sensitivity (converted to 1m, 1W)	99±2dB
MAX. SPL.	127±2dB
Active Signal Input Impedance	20 kΩ
Amplifier Power	4×900W
Continuous Power	800W (AES)
Amplifier Input Sensitivity	0.775V
Amplifier Distortion	<0.05%
Working Voltage	AC100V~240V 50/60Hz
Color	Black
Dimensions (W×H×D)	500mm×650mm×705mm
Weight	49kg

LAM1432SA Amplifier Panel

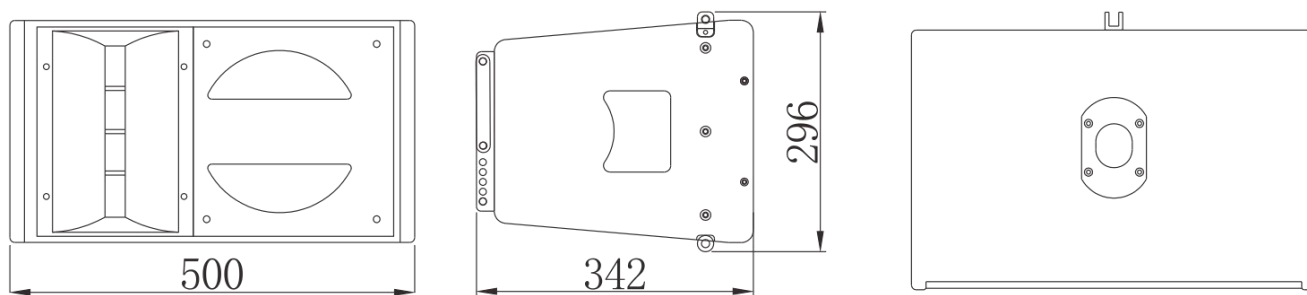


- ① **Control Interface:**
Connects to a computer via RJ45; Wi-Fi connection to a computer is also supported.
- ② **Channel Signal Indicators:**
Flashing blue indicates signal presence; flashing red indicates signal overload.
- ③ **Power Indicator:**
Blue indicates normal operation; red indicates protection status.
- ④ **Signal Input:**
XLR signal input (Pin 1: Ground, Pin 2: +, Pin 3: -).
- ⑤ **Signal Output:**
XLR input signal pass-through output (Pin 1: Ground, Pin 2: +, Pin 3: -).
- ⑥ **AC Power Input:**
AC 100–240 V, 50/60 Hz.
- ⑦ **AC Power Output:**
AC 100–240 V, 50/60 Hz.
- ⑧ **CH3 / CH4 Power Outputs:**
Connect to LAM1432 using a dedicated 4-core speaker cable (MF: +1/-1, HF: +2/-2).
A maximum of four LAM1432 units may be connected in parallel.
- ⑨ **Power Switch:**
ON = Power on; OFF = Power off.

LAM1430 & LAM1430SA Basic Dimensions



LAM1432SA



LAM1432