

LA1421A

1000W Active Line Array Loudspeaker



Description

This product is an actively powered line array speaker engineered for high-power output and high SPL capability. The enclosure is constructed from marine-grade plywood, ensuring exceptional structural integrity and environmental durability, while all metal hardware is fabricated from corrosion-resistant aluminum alloy. The system is driven by a high-peak-capacity switch-mode power supply (SMPS) coupled with a dedicated Class-D power amplifier module.

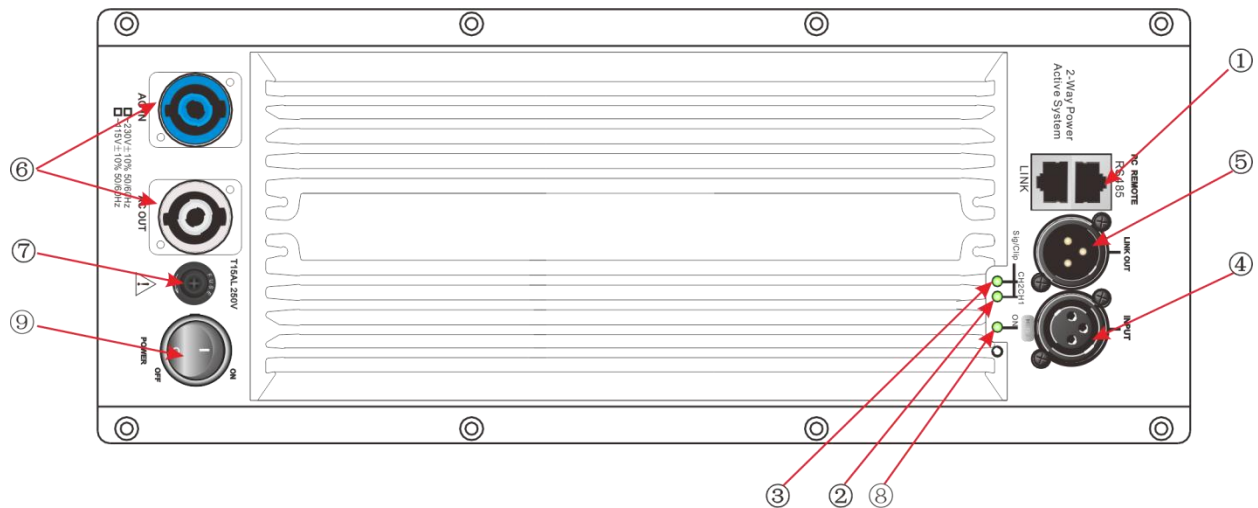
Features

- This system is a compact line array configuration engineered for high-power output and high SPL capability.
- Enclosure constructed from marine-grade plywood for superior structural integrity and environmental durability, complemented by high-quality aluminum alloy hardware for all metal fittings.
- Driven by a high-peak-capacity switch-mode power supply (SMPS) coupled with a dedicated Class-D power amplifier module.
- Optimized for mobile and portable sound reinforcement applications.

Specifications

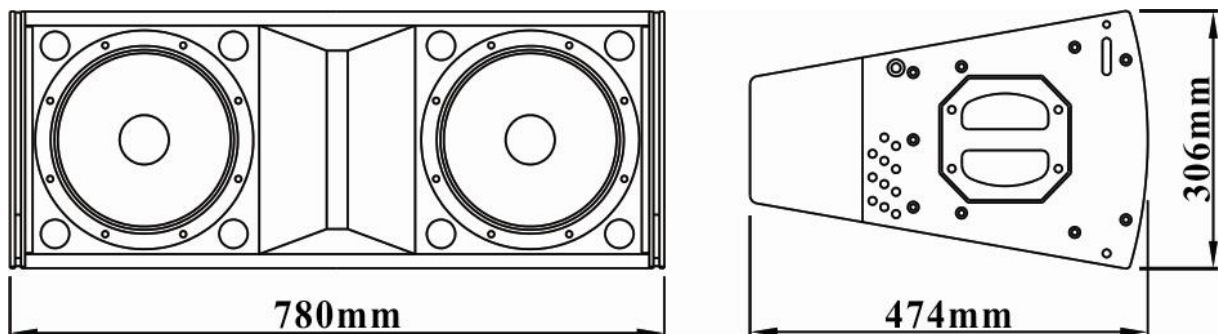
Model	LA1421A
Unit Structure	10" woofer×2, 3" tweeter×2
Frequency Response	60 Hz – 20000 Hz
Speaker Sensitivity (converted to 1m, 1W)	103±2dB
MAX. SPL.	131±2dB
Active Signal Input Impedance	20 kΩ
Amplifier Power	1000W
Amplifier Input Sensitivity	0.775V
Directivity (H×V)	120°×5°~ 20° (Depend on the number of arrays)
Amplifier Distortion	<0.05%
Working Voltage	AC190V~240V/50Hz
Dimensions (W×D×H)	780mm×474mm×306mm
Weight	28kg

Amplifier Panel



- ① Control Interface: Connected to the computer through RS485, and a RS232-USB interface is required for conversion.
- ② CH1 Indicator: Flashing green for signal indication, while flashing red for signal overload indication.
- ③ CH2 Indicator: Flashing green for signal indication, while flashing red for signal overload indication.
- ④ Input Interface: XLR signal input. (1: GND, 2: +, 3: -)
- ⑤ Output Interface: XLR input signal straight-through port. (1: GND, 2: +, 3: -)
- ⑥ Power Input: AC 220V 50Hz.
- ⑦ Safety Device: 15A.
- ⑧ Power Indicator: If this indicator light is on, the power supply is connected.
- ⑨ Power Switch.

Basic Dimensions



Installation Method

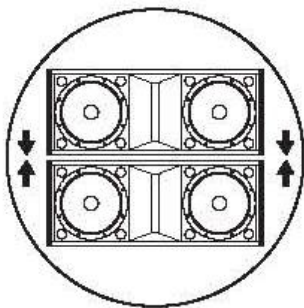


Figure A

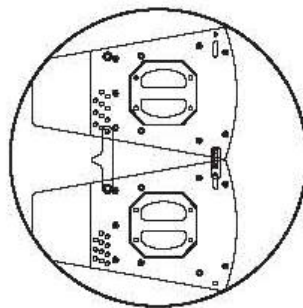


Figure B

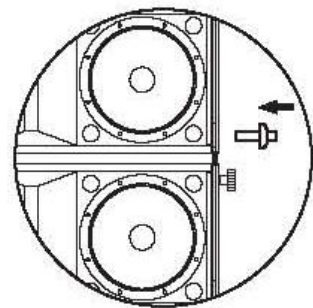


Figure C

1. Arrange the array speakers in parallel (Figure A).
2. Pull out the connectors and bolts (Figure B).
3. Align the connectors with the mounting holes as needed and insert the bolts (Figure C)