

LA-4241B LA-180SUB

Professional Line Array Loudspeaker System



Description

The LA-4241B is a compact line array loudspeaker that houses four 4-inch full-range drivers and is well-suited for both vocal and musical reproduction. Complementing it is the LA-180SUB, an active subwoofer that integrates advanced digital signal processing, a robust 18-inch woofer, and a high-output amplifier module to deliver powerful, reliable low-frequency performance.

For enhanced portability, the full-range units can be disconnected and conveniently stored within the subwoofer's bass reflex port, significantly reducing the system's overall footprint during transport.

When deployed as a complete system—comprising three LA-4241B units paired with one LA-180SUB—the setup produces articulate, vibrant audio with extended bass response. The system features straightforward installation, achieves high SPL capabilities, and offers output performance that outperforms many competing solutions. Its impressive throw distance makes it especially effective in outdoor environments, while remaining highly adaptable across a broad spectrum of venues, including houses of worship, museums,

live music stages, transit hubs, sports arenas, government halls, conference centers, lecture theaters, retail spaces, and AV demonstration rooms.

Features

- Four 4" full-range speaker units deliver high clarity and balanced sound reproduction across a wide frequency range, ensuring accurate audio for both speech and music.
- An 18" woofer unit in the subwoofer provides powerful low-frequency output, significantly enhancing bass performance and overall sound impact.
- Telescoping support pole with integrated cable allows for easy height adjustment and flexible positioning during setup, ensuring ideal sound projection for any venue.
- Full-range speakers feature aluminum alloy enclosures with waterproof sound meshes, offering exceptional durability and long-term reliability in various environmental conditions.
- Detachable full-range speakers can be conveniently stored inside the bass reflex port of the subwoofer, enabling compact storage and hassle-free transport.
- Equipped with four 4-inch silent wheels with brakes, the system ensures easy mobility and stable positioning during both setup and operation.
- The system is suitable for both mobile and fixed installations, making it an ideal choice for banquet halls, conference rooms, outdoor venues, and a wide range of other applications.

Specifications

Model	LA-4241B
Speaker Unit	4 × 4" Full-range Drivers
Rated Power	280W @ 8Ω / 800W (peak)
Frequency Range	100Hz-20kHz
Sensitivity(1W/1m)	98dB
SPL	120dB (Continuous), 130dB (Peak)
Nominal Impedance	16Ω
Nominal Coverage Angle (H × V)	120° × 80°
Crossover Frequency	120Hz
Connectors	Two Neutrik NL4 Sockets (1-/1+)
Enclosure Material	Aluminum Alloy
Product Dimension(W×H×D)	125 × 500 × 138mm
Product Weight	7.2kg

Model	LA-180SUB
Speaker Unit	1 × 18" Woofer, 220mm Magnet / 100mm Voice Coil
Rated Power	1000W (Continuous), 4000W (Peak)
Frequency Response	28Hz - 300Hz
Sensitivity(1W/1m)	92dB
SPL	131dB (Continuous), 136dB (Peak)
Nominal Impedance	8Ω
Crossover Frequency	120Hz
Connectors	One Neutrik NL4 Socket
Product Dimension(W×H×D)	502 ×608 × 650mm

Amplifier Module	Product Weight	35kg
	Power Configuration	1600W + 800W @ 8 Ω
	Frequency Response	20Hz - 20kHz (-0.5dB at 1/8 Output Power)
	SNR	≥ 101 dB (A-Weighted)
	Damping Factor	500
	Input Sensitivity/Impedance	1.2V / 22k Ω
	THD	$\leq 0.05\%$
	Input Voltage	~ 90 V - 270V, 50/60Hz (PFC Power Supply)
	Output Circuit Type	Class D
	Protection Features	Overload Protection, Overvoltage Protection, Undervoltage Protection, Overheat Protection, Short Circuit Protection, DC Protection, etc.
	DSP Decoder Chip	96kHz Sampling Rate

Amplifier Module Function Description



Five Mode Explanations

Mode 1: Outdoor Mode - Channel A controls both the full-range speaker and subwoofer; Channel B controls the monitoring speaker.

Mode 2: Indoor Mode - Channel A controls both the full-range speaker and subwoofer; Channel B controls the monitoring speaker.

Mode 3: Outdoor Mode - Channel A controls the subwoofer; Channel B controls both the full-range speaker and monitoring speaker.

Mode 4: Indoor Mode - Channel A controls the subwoofer; Channel B controls both the full-range speaker and monitoring speaker.

Mode 5: Conference Mode - Channel A controls both the full-range speaker and subwoofer; Channel B controls the monitoring speaker.

Precautions

- The signal overload indicator light should not remain constantly on!
- It is recommended to use a power cable of at least 3*2.5mm².
- Handle the column speaker with care!
- It is recommended to turn the volume knob to the maximum setting.