

LA-4241B LA-180SUB

Professional Line Array Speaker System



Description

The LA-4241B is a compact linear array speaker equipped with four 4" full-range drivers, designed for both voice and music applications. The LA-180SUB is an active subwoofer featuring advanced digital signal processing, a powerful 18" woofer, and a high-power amplifier module, ensuring exceptional output and reliable audio performance.

For added convenience, the full-range speakers can be detached and stored inside the bass reflex port of the subwoofer, making the system even more portable and compact.

When paired together, two LA-4241B speakers and one LA-180SUB subwoofer deliver clear, vibrant sound with deep bass. The system offers easy installation, a high sound pressure level, and impressive output that surpasses similar products. With its remarkable outdoor projection range, this system is ideal for various

venues such as churches, museums, live sound events, train stations, airports, sports facilities, legislative buildings, conference rooms, lecture halls, shopping malls, and A/V demonstration halls.

Features

- 4 × 4" full-range speaker units for high clarity and balanced sound reproduction across a wide frequency range.
- 18" woofer unit in the subwoofer for powerful low-frequency output, enhancing bass performance.
- Telescoping support pole with cable for easy adjustment and flexibility during setup, ensuring ideal sound projection.
- Full-Range Speaker with Aluminum Alloy Enclosure and waterproof sound mesh for durability.
- Detachable full-range speakers that can be conveniently stored inside the bass reflex port of the subwoofer for compact storage and transport.
- Equipped with four 4-inch silent wheels with brakes, ensuring easy mobility and stability during setup and use.
- The system is suitable for both mobile and fixed installations, such as banquet halls, conference rooms, and outdoor venues.

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	
Product Weight	35kg	
Amplifier Module	Power Configuration	1600W + 800W @ 8 Ω
	Frequency Response	20Hz - 20kHz (-0.5dB at 1/8 Output Power)

SNR	$\geq 101\text{dB}$ (A-Weighted)
Damping Factor	500
Input Sensitivity/Impedance	1.2V / 22k Ω
THD	$\leq 0.05\%$
Input Voltage	$\sim 90\text{V} - 270\text{V}$, 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.