

LA0316

160W+300W Professional Active Line Array Loudspeaker System



Description

LA0316 Professional Active Line Array Speaker System is a compact, high-output audio platform engineered to address a broad spectrum of sound reinforcement requirements, ranging from small- to medium-sized venues and mobile performance applications to conference systems and commercial fixed installations.

The system comprises an 8×3" line-array column and a 12" high-power subwoofer, delivering articulate, detailed mids and highs alongside deep, impactful low-frequency extension.

At the core of the system lies an integrated DSP-equipped amplifier module, supporting advanced signal processing functions including FIR filtering, crossover management, delay compensation, parametric equalization, and peak limiting—enabling precise acoustic calibration and consistent performance across varied deployment environments.

The LA0316 further offers versatile connectivity with built-in Bluetooth audio streaming, USB media playback, and TWS true wireless stereo pairing. Complemented by the FIR Active Speaker Editor software, users gain intuitive access to preset configuration, storage, and recall, streamlining system setup and operational management with enhanced efficiency and flexibility.

Features

- Eight 3-inch full-range drivers deliver transparent and naturally balanced mid-high frequency reproduction.

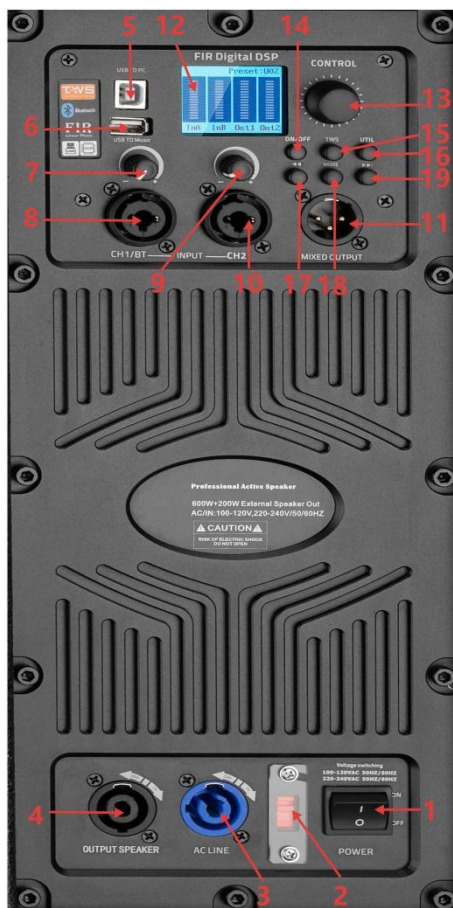
- A 12-inch subwoofer provides deep, authoritative low-frequency extension with high impact.
- Integrated DSP engine with FIR filtering enables precise acoustic optimization and system alignment.
- Offers comprehensive adjustment parameters including PEQ, crossover, delay, limiter, phase, and gain control.
- Capable of high SPL output, meeting the demands of professional sound reinforcement scenarios.
- Accommodates both XLR and TRS line-level audio inputs for flexible signal integration.
- Built-in USB media playback module supports MP3 file formats.
- Embedded Bluetooth connectivity facilitates wireless audio streaming from mobile devices.
- TWS (True Wireless Stereo) functionality enables seamless stereo pairing between two units.
- PC-based DSP management software allows full configuration of all processing parameters.
- Provides real-time metering of input/output levels and overall system status.
- Supports preset management functions including saving, recalling, uploading, and downloading.
- Dual-voltage power supply (110V/220V) ensures global compatibility with diverse mains standards.
- Integrated limiter protection circuitry safeguards drivers and electronics for reliable continuous operation.
- Slim-profile column enclosure designed for wide horizontal dispersion and optimal coverage.
- Compact, lightweight form factor streamlines transportation, handling, and on-site installation.

Specifications

Model	LA0316
	3"×8 Column Speaker
Drive Unit	MF: 3"×8 (25mm Voice Coil)
Rated Power	160W
Program Power	320W
Peak Power	640W
Impedance	4Ω
Frequency Response	98Hz~16kHz
Sensitivity	96dB
Max. SPL	118dB
Signal Input	Dedicated Link Connector
Directivity Angle	100°(H)×20°(V)
Product Dimensions (H×W×D)	810×105×140mm
Package Dimensions (H×W×D)	860×360×240mm (2PCS/CTN)
Net Weight	6.5kg
Gross Weight	18kg
	Single 12" Subwoofer
Drive Unit	LF: 12"×1 (75mm Voice Coil)
Rated Power	300W
Program Power	600W
Peak Power	1200W
Impedance	4Ω
Frequency Response	38Hz~200Hz
Sensitivity	96dB
Max. SPL	121dB

Signal Input	2×XLR / TRS
Supported Function	BT / USB / MP3 / TWS
Product Dimensions (H×W×D)	600×365×450mm
Package Dimensions (H×W×D)	686×435×520mm
Net Weight	21kg
Gross Weight	24kg

Product Information



1. POWER Switch

Turns the powered speaker on or off.

ON: Power on OFF: Power off

2. Input Voltage Selector

Displays the current AC input voltage. Allows switching between 110V and 220V.

Note: Selecting 110V while connecting to a 220V power supply may damage the unit.

3. AC INPUT

Connects to the AC power supply using a suitable power cable.

4. OUTPUT SPEAKER

Full-range speaker output terminal (1+ / 1-).

5. USB TO PC

Connects to a computer via USB for DSP control and parameter adjustment using the software.

6. USB TO MUSIC

USB port for audio playback. Supports MP3 format and automatically plays files stored in the root directory

of the USB drive.

7. CH1 Volume Control

Adjusts the volume of CH1 line input, USB input, and Bluetooth audio.

8. CH1 Line Input

Supports XLR (male) and 6.35mm TRS input.

9. CH2 Volume Control

Adjusts the volume of CH2 line input.

10. CH2 Line Input

Supports XLR (male) and 6.35mm TRS input.

11. MIXED OUTPUT

Mixed output of CH1 and CH2 signals (bypassing DSP processing).

12. Display Screen

Shows input/output level meters, current preset, and system information.

13. CONTROL Knob

Rotate to adjust the master volume.

Press to enter the DSP settings, including Output 1/2 volume, Mute, and Phase.

Rotate to change values. Functions can be switched via the UTIL button.

14. Bluetooth ON/OFF

Press to enable Bluetooth (Bluetooth icon appears on the screen). Release to disable Bluetooth (icon disappears).

Bluetooth name: MUSIC, Password: 8888

15. TWS (Bluetooth Linking)

When one speaker is in Bluetooth mode and connected to a mobile device, press the TWS button (15).

Then, on the second speaker, turn on Bluetooth (14) and press the TWS button (15).

The two speakers will connect wirelessly for synchronized audio playback.

Up to two speakers can be linked via TWS.

16. UTIL Button

Press to enter system settings. Use the CONTROL knob to adjust parameters.

- Press once to load a DSP preset program. Rotate the CONTROL knob to select the desired preset.

- Press twice to save the current settings. Rotate the CONTROL knob to select an empty preset slot.

Note: Select an empty preset slot when saving. Otherwise, previously saved data will be overwritten. The system will automatically return to the main display after a period of inactivity.

17.

Short press: Play previous track

Long press: Increase volume (Bluetooth volume controllable)

18. MODE

Short press: Play / Pause USB audio playback

19.

Short press: Play next track

Long press: Decrease volume (Bluetooth volume controllable)