



**System Solution: Mobile Active  
Line Array Speaker System  
— Professional Line Array  
Applications for Diverse Scenarios**

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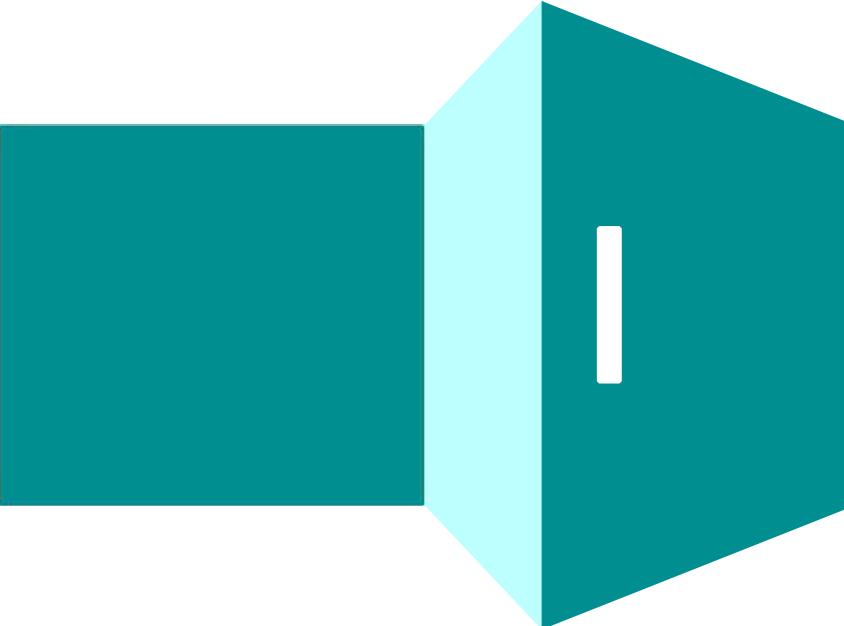
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## ► Solution Overview

# I. Solution Overview

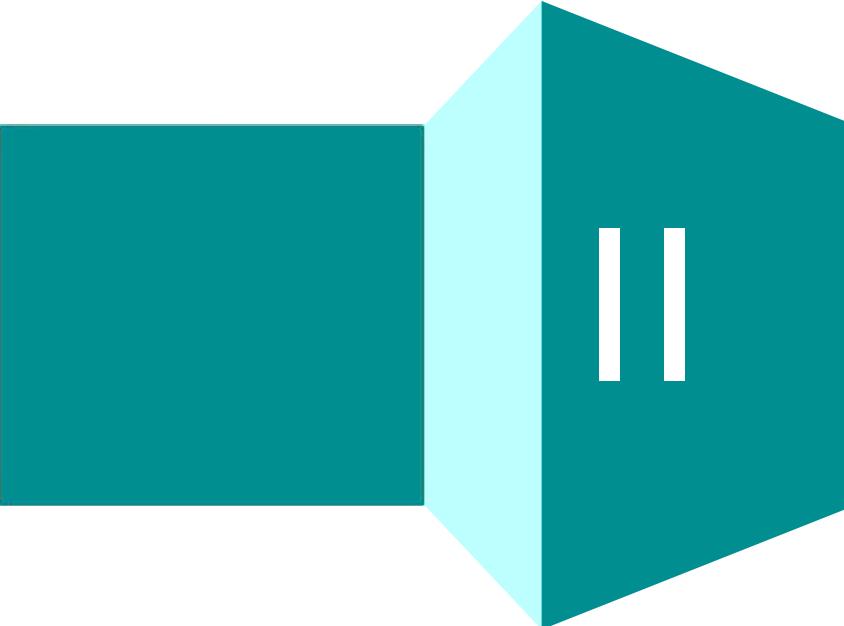
- The mobile active line array sound reinforcement system integrates advanced active speaker array technology with mobility. Featuring an efficient line array design, it delivers uniform, clear sound with extended coverage. Its portable and flexible nature allows for rapid deployment in various locations, making it well-suited for a wide range of complex application scenarios.



## Professional Line Array Loudspeakers

### Technical Features

- **Active Line Array Technology:** Each speaker unit is equipped with a built-in amplifier and audio processing system, enabling precise control of sound dispersion angle, frequency, and amplitude. This ensures high-quality, uniform sound coverage.
- **High Efficiency and Wide Coverage:** Utilizing line array technology, the system minimizes sound attenuation over distance, ensuring clear audio delivery to every listener, even in large venues.
- **Flexible Mobility:** Designed with modular architecture and equipped with mobile platforms or trolley-mounted frames, the system allows for quick deployment across different venues, meeting the needs of temporary or mobile sound reinforcement.
- **Wireless Control and Intelligent Adjustment:** The system supports wireless remote control, allowing sound configurations to be adjusted based on venue conditions. It also features intelligent tuning algorithms that automatically optimize sound quality and volume according to the environment.



## ► Key Features

## II. Key Features



**LA-4240**  
240W 4.5" Passive Line Array Loudspeaker  
**LA-150SUB**  
600W 15" Active Subwoofer

- ★ Portable and Compact Design
- ★ Complete fullset, easy to transport
- ★ Waterproof
- ★ Cost-Effective



**LA-4241**  
280W 4" Passive Line Array Loudspeaker  
**LA-180Sub**  
1000W 15" Active Subwoofer

- ★ Portable and Compact Design
- ★ Complete fullset, easy to transport
- ★ Waterproof
- ★ 120°×80° Wide Coverage Angle



**LAM1430**  
350W Two-Way Passive Array Full Range Speaker  
**LAM1430SA**  
800W 18" Active Subwoofer

- ★ Ultra-High SPL Output
- ★ Modular Quick Setup
- ★ DSP Processing
- ★ RJ45 Interface



**LA0316**  
Active Column Speaker System with Subwoofer

- ★ 6.5 kg Quick Setup
- ★ DSP Audio Processing
- ★ Multi-Functional Inputs
- ★ Wide Coverage Range



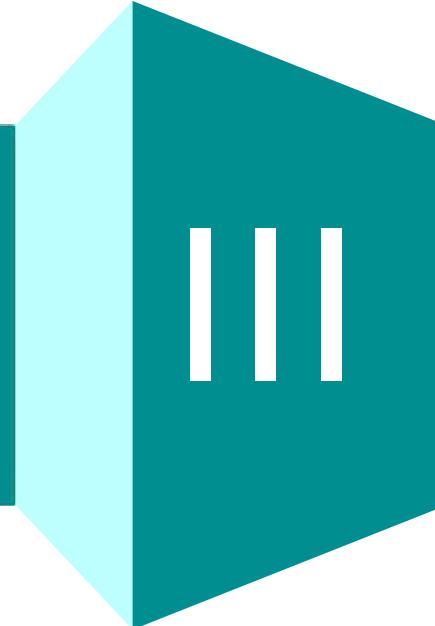
**LA-8300**  
350W 3" Active Line Array Speaker  
**LA-212SUB**  
800W 12" Active Subwoofer

- ★ Flexible Hanging and Stacking Deployment
- ★ DSP Processing
- ★ Dual 12" Subwoofer.
- ★ Bright and Clear Sound
- ★ Attractive Style



**DSP1280**  
800W+800W Active Line Array Loudspeaker

- ★ All-Weather Stability
- ★ High SPL
- ★ Clear Sound Reinforcement
- ★ Easy and Convenient Setup



## ▶ **Active Line Array Speaker Applications in Various Scenarios**

### III. Active Line Array Speaker Applications in Various Scenarios



Outdoor Performances



Conference Rooms



Indoor Basketball Courts



Wedding Venues



Auditorium



Sports Arenas

# IV

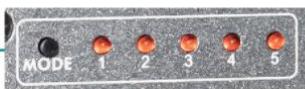
## ► System Solution

# ①-LA-4240B+LA-150SUB Professional Line Array Speaker System

## Features

- All-Weather Environmental Resistance:** The full aluminum enclosure and waterproof design ensure stable system operation under harsh weather conditions.
- Efficient Sound Field Control:** A 160° vertical coverage angle combined with DSP scene modes optimizes sound clarity and coverage.
- Rapid Deployment and Mobility:** Convenient quick-release brackets and lightweight design enable fast setup and easy transport.
- Intelligent Audio Processing:** High-quality DSP chips provide real-time optimization and multiple sound effect modes to suit various performance needs.
- High Reliability Assurance:** Wide voltage input range and low distortion design guarantee stable and clear system output.

## Five Mode Function Options



### Five Mode Function Options

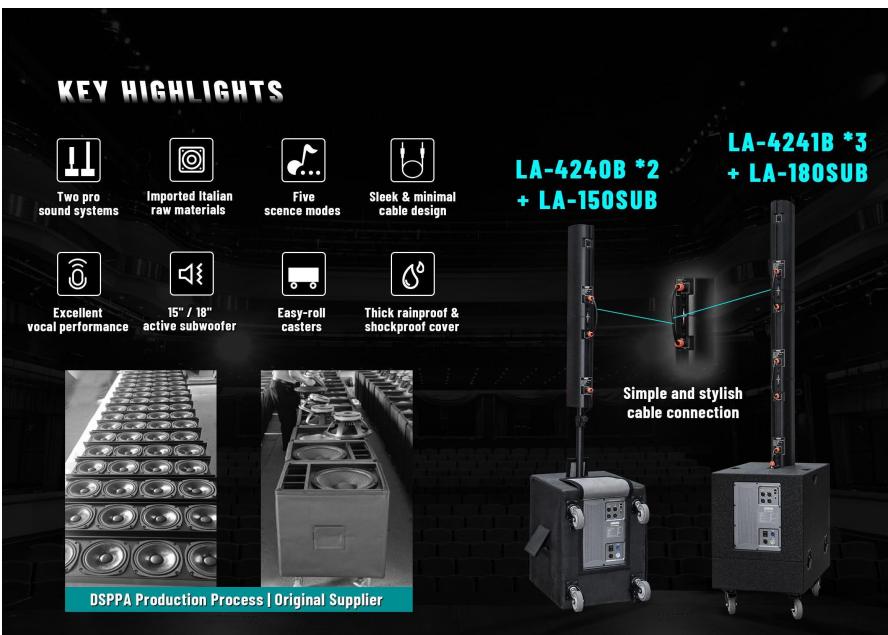
**Mode 1: Outdoor Mode** - Channel A signal input, controlling both the full-range speaker and subwoofer.

**Mode 2: Indoor Mode** - Channel A signal input, controlling both the full-range speaker and subwoofer.

**Mode 3: Outdoor Mode** - Channel A and B signal inputs simultaneously, with A controlling the subwoofer and B controlling the full-range speaker.

**Mode 4: Indoor Mode** - Channel A and B signal inputs simultaneously, with A controlling the subwoofer and B controlling the full-range speaker.

**Mode 5: Conference Mode** - Channel A signal input, controlling both the full-range speaker and subwoofer.



**Complete Fullset:**  
**LA-4240B \*2 + LA-150SUB \*1 + Accessory Bag + 4 Casters + Rain Cover \*1**  
 Total net weight (56kg) ; Package weight (59kg)



| LA-4240B 280W 4"x4 Passive Column Array Speaker |   |
|---|---|
| Speaker Unit                                    | 4x 4" Full-range Drivers                              |
| Rated Power                                     | 280W @ 8Ω / 800W (peak)                               |
| Frequency Range                                 | 100Hz-20KHZ   |
| Sensitivity(iw/1m)                              | 98dB  |
| SPL   | 120dB(Continuous), 130dB (Peak)                       |
| Nominal Impedance                               | 8Ω  |
| Nominal Coverage Angle (H x V)                  | 120°x 80°   |
| Crossover Frequency                             | 120Hz   |
| Connectors                                      | Two Neutrik NL4 Sockets (1+1)                         |
| Enclosure Material                              | Aluminum Alloy  |
| Product Dimension(WxHxD)                        | 125x500x138mm   |
| Product Weight                                  | 7.2kg   |
| LA-150SUB 700W 15"x1 Active Subwoofer           |   |
| Speaker Unit                                    | 1*15" Woofer, 220mm magnet / 100mm voice coil         |
| Rated Power                                     | 700W(Continuous), 1600W(Peak)                         |
| Frequency Response                              | 32Hz-300Hz  |
| Sensitivity(iw/1m)                              | 97.5dB  |
| SPL   | 130dB (Continuous) 136dB(Peak)                        |
| Nominal impedance                               | 8Ω  |
| Crossover Frequency                             | 120Hz   |
| Connectors                                      | One Neutrik NL4 Socket                                |
| Product Dimension(W*H*D)                        | 500x486x 550mm  |
| Product Weight                                  | 35kg  |
| Amplifier Power Configuration                   | 1200W + 800W @ 8Ω                                     |
| Amplifier Frequency Response                    | 20Hz - 20kHz (-0.5dB at 1/8 Output Power)             |
| Amplifier SNR                                   | ≥101dB (A-Weighted)                                   |
| Amplifier Damping Factor                        | 500   |
| Amplifier Input Sensitivity/Impedance           | 1.2V/22kΩ   |
| Amplifier THD                                   | ≤0.05%  |
| Amplifier Input Voltage                         | ~190V-240V 50/60Hz                                    |
| Amplifier Output Circuit Type                   | Class D   |
| Amplifier Protection Features                   | Overload, Undervoltage, Overheat, Short Circuit, etc. |
| Amplifier DSP Decoder Chip                      | 96kHz Sampling Rate                                   |

# ①-System Solution: Configuration for Outdoor Performances

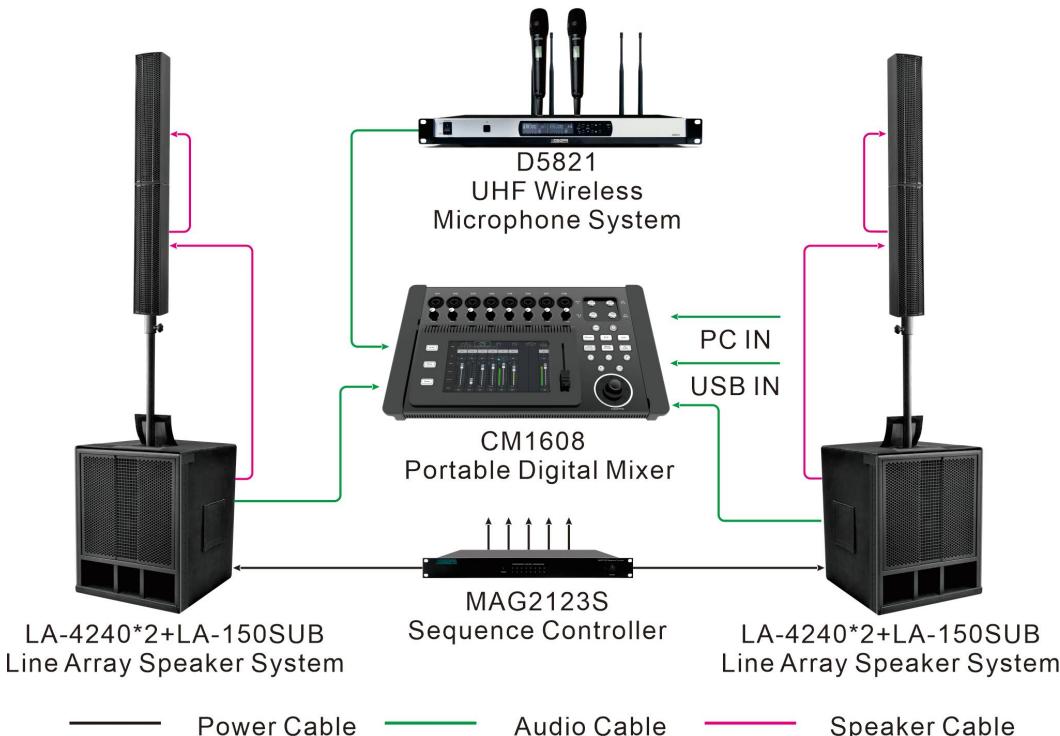
**Outdoor Performance Venue:** 300 square meters.

**System Composition:** Speech System + Professional Sound Reinforcement System.

**System Functions:** Handheld microphone for mobile audio amplification; mixing console for audio source mixing and adjustment.

**System Advantages:** With a waterproof design, intelligent scene switching, and ultra-simplified deployment, the LA-4240B paired with the LA-150SUB offers a cost-effective solution for small to medium-sized outdoor performances. Its modular design is especially suited for touring performance teams that require frequent changes of performance venues, with user-friendly operation that ensures quick and easy setup.

| No. | Model     | Product Name                             | Quantity |
|-----|-----------|--|----------|
| 1   | D5821     | 2 Channel UHF Wireless Microphone System | 1        |
| 2   | CM1608    | Portable Digital Mixer                   | 1        |
| 3   | LA-4240B  | 240W 4.5" Passive Line Array Loudspeaker | 4        |
| 4   | LA-150SUB | 600W 15" Active Subwoofer                | 2        |
| 5   | MAG2123S  | Sequence Controller                      | 1        |



# ②-LA-4241B+LA180SUB Professional Line Array Speaker System

## Features

- Exceptional Speech Intelligibility:** Equipped with four 4" full-range drivers and a high sensitivity of 98dB, the system ensures clear and articulate vocal delivery, eliminating muddiness.
- Precise Sound Field Coverage:** A wide 120° × 80° coverage angle combined with optimized line array structure minimizes reflective interference and enhances speech intelligibility.
- Flexible Installation Modes:** Versatile mode settings allow independent control and unified management of main speakers, subwoofers, and monitors.
- Professional-Grade Reliability:** The aluminum alloy enclosure and multiple protection mechanisms ensure long-term stable operation and eliminate background noise interference.
- Efficient Deployment and Maintenance:** Swivel caster design and Neutrik connectors enable easy mobility, fast connections, and simplified setup and maintenance.

## Five Mode Function Options



### Five Mode Function Options

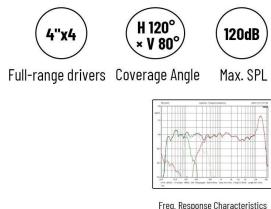
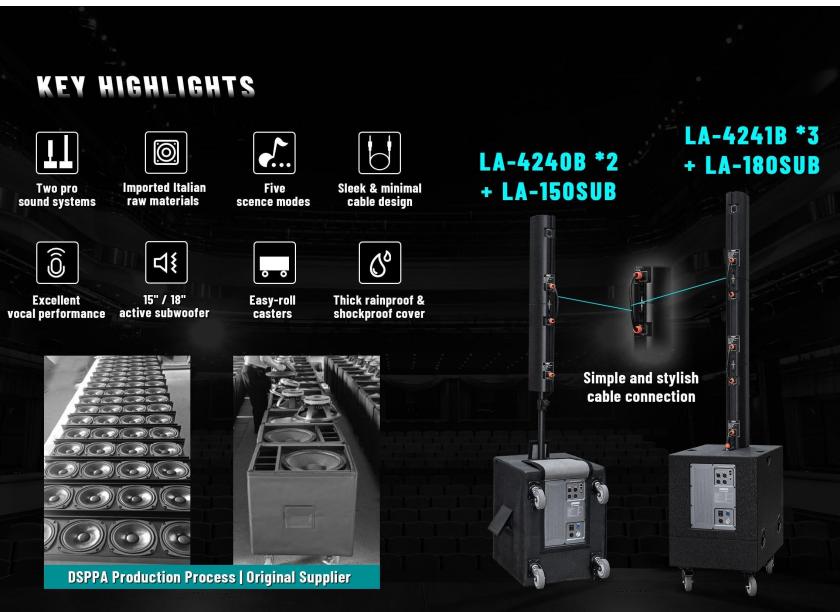
**Mode 1: Outdoor Mode** – Channel A signal input, controlling both the full-range speaker and subwoofer.

**Mode 2: Indoor Mode** – Channel A signal input, controlling both the full-range speaker and subwoofer.

**Mode 3: Outdoor Mode** – Channel A and B signal inputs simultaneously, with A controlling the subwoofer and B controlling the full-range speaker.

**Mode 4: Indoor Mode** – Channel A and B signal inputs simultaneously, with A controlling the subwoofer and B controlling the full-range speaker.

**Mode 5: Conference Mode** – Channel A signal input, controlling both the full-range speaker and subwoofer.



| LA-4241B 280W 4"x4 Passive Column Array Speaker |   |
|---|---|
| Speaker Unit                                    | 4x 4" Full-range Drivers                              |
| Rated Power                                     | 280W @ 8Ω / 800w (peak)                               |
| Frequency Range                                 | 100Hz-20KHZ   |
| Sensitivity(iw/1m)                              | 98dB  |
| SPL   | 120dB(Continuous), 130dB (Peak)                       |
| Nominal Impedance                               | 16Ω   |
| Nominal Coverage Angle (H x V)                  | 120°x 80°   |
| Crossover Frequency                             | 120Hz   |
| Connectors                                      | Two Neutrik NL4 Sockets (1/-1+)                       |
| Enclosure Material                              | Aluminum Alloy  |
| Product Dimension(WxH*D)                        | 125x500x138mm   |
| Product Weight                                  | 7.2kg   |
| LA-180SUB 1000W 15"x1 Active Subwoofer          |   |
| Speaker Unit                                    | 1*18" Woofer, 220mm magnet / 100mm voice coil         |
| Rated Power                                     | 1000w(Continuous), 4000w(Peak)                        |
| Frequency Response                              | 28Hz-300Hz  |
| Sensitivity(iw/1m)                              | 92dB  |
| SPL   | 131dB (Continuous) 136dB(Peak)                        |
| Nominal impedance                               | 8Ω  |
| Crossover Frequency                             | 120Hz   |
| Connectors                                      | One Neutrik NL4 Socket                                |
| Product Dimension(W*H*D)                        | 502x608x 650mm  |
| Product Weight                                  | 35kg  |
| Amplifier Power Configuration                   | 1600W + 800W @ 8Ω                                     |
| Amplifier Frequency Response                    | 20Hz - 20kHz (-0.5dB at 1/8 Output Power)             |
| Amplifier SNR                                   | ≥101dB (A-Weighted)                                   |
| Amplifier Damping Factor                        | 500   |
| Amplifier Input Sensitivity/Impedance           | 1.2V/22kΩ   |
| Amplifier THD                                   | ≤0.05%  |
| Amplifier input Voltage                         | ~90V-270V 50/60Hz(PFC Power Supply)                   |
| Amplifier Output Circuit Type                   | Class D   |
| Amplifier Protection Features                   | Overload, Undervoltage, Overheat, Short Circuit, etc. |
| Amplifier DSP Decoder Chip                      | 96kHz Sampling Rate                                   |

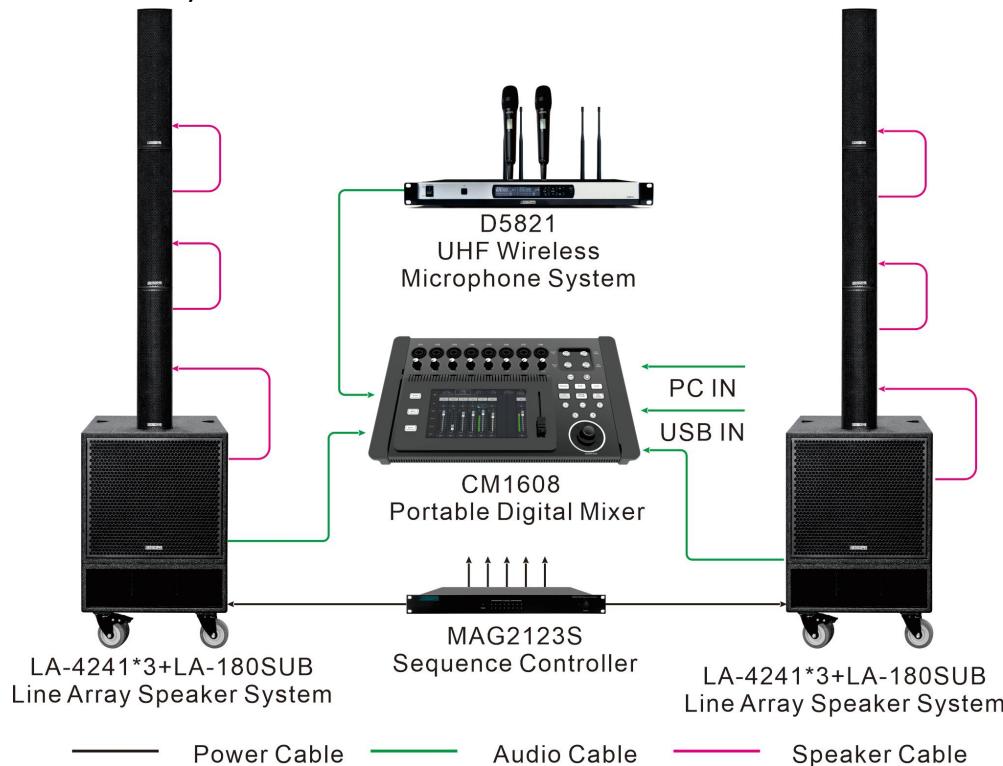
## ②-System Solution: Configuration for Conference Halls

**Conference Hall Area:** 300–500 m<sup>2</sup>, accommodating approximately 200–300 people.

**System Components:** Speech System + Professional Sound Reinforcement System.

**System Functions:** Mobile audio amplification via handheld microphones, with sound mixing and adjustment through a mixer.

**System Advantages:** The LA-4241B paired with the LA-180SUB features a modular design, military-grade reliability, and exceptional speech intelligibility, making it an ideal choice for medium to large conference halls—particularly those requiring both mobile and fixed installation flexibility.



| No. | Model     | Product Name                             | Quantity |
|-----|-----------|--|----------|
| 1   | D5821     | 2 Channel UHF Wireless Microphone System | 1        |
| 2   | CM1608    | Portable Digital Mixer                   | 1        |
| 3   | LA-4241B  | 280W 4" Passive Line Array Loudspeaker   | 4        |
| 4   | LA-180SUB | 1000W 15" Active Subwoofer               | 2        |
| 5   | MAG2123S  | Sequence Controller                      | 1        |

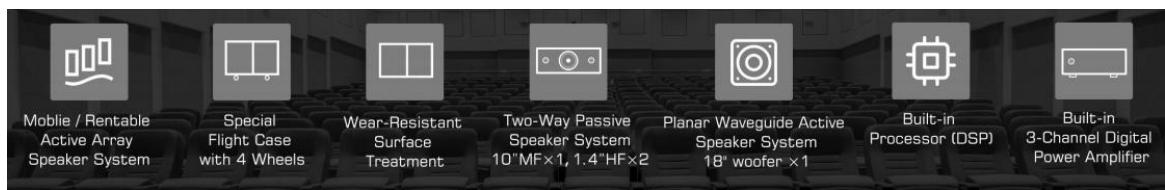


# ③-LAM1430+LAM1430SA Mobile Line Array Combination



## Features

- Built-in Processor (DSP): Features an integrated DSP module, allowing connection to a computer via RS485 for equalizer configuration and system parameter adjustments.
- Compact and Sleek Design: Small in size with an elegant appearance, and supplied with a dedicated flight case for excellent portability.
- All-in-one design ensures easy and efficient installation and operation.
- Features a wear-resistant surface finish with fully aluminum suspension hardware.



### Highlights of System



Complete Set  
Convenient for shipment  
The weight of a set: About 94kg

Strong Mobility,  
Higher Practicability



### High-End Material of Speaker Units | The Best Sound Quality



**LAM1430**  
Two-way passive speaker system  
MF: 350W / HF:120W  
10"MFx1, 1.4"HFx2;  
MAX. SPL.: MF: 120±2dB  
/ HF: 126±2dB  
● With a large headroom, providing an extremely high sound pressure/volume ratio;  
● With a Plane wave transducer, generating a consistent wave front.



**LAM1430SA**  
Active speaker system 800W  
18" woofer x1; MAX. SPL.: 127±2dB  
● Planar waveguide active speaker system  
● Specially designed to complement LAM1430 low frequency;  
● Rear panel with RS485 interface to adjust system parameters;  
● Speaker Box: 13 layers of plywood,  
Wear-resistant yarn points

| LAM1430 Two-way Passive Speaker System |                       |
|--|-----------------------|
| Unit Structure                         | 10"MFx1, 1.4"HFx2     |
| 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:4Ω/HF:16Ω          |
| Single Speaker Directivity(HxV)        | 100°x10               |
| Color                                  | Black                 |
| Product Dimension(WxHxD)               | 500x296x342mm         |
| Product Weight                         | 20kg                  |

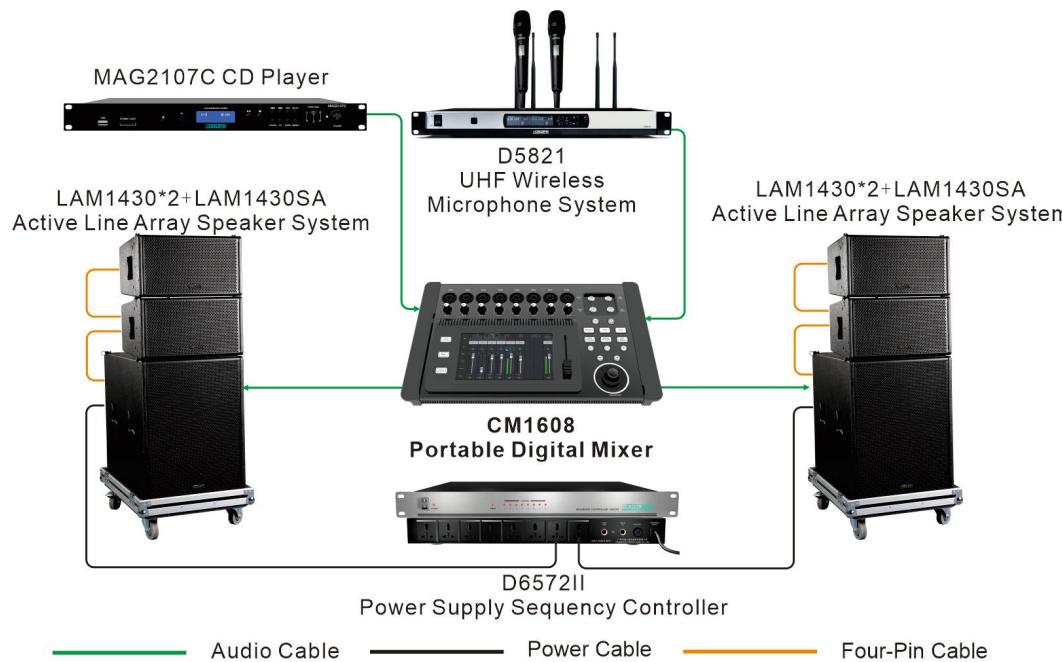
| LAM1430SA 18" Active Array Subwoofer |                    |
|--------------------------------------|--------------------|
| Unit Structure                       | 18" woofer x1      |
| Frequency Response                   | 38 Hz-220 Hz       |
| MAX.SPL.                             | 127+2dB            |
| Sensitivity(1w/1m)                   | 99+2dB             |
| Active signal input impedance        | 20 kΩ              |
| Amplifier Power                      | 1500W+900W+900W@4Ω |
| Continuous Power                     | 800W(AES)          |
| Amplifier input Sensitivity          | 0.775V             |
| Amplifier Distortion                 | <0.05%             |
| Working Voltage                      | AC220V~50/60Hz     |
| Color                                | Black              |
| Dimensions(WxHxD)                    | 500mmx650mmx705mm  |
| Weight                               | 48kg               |

## ③-System Solution: Configuration for Indoor Basketball Courts

**Indoor Basketball Court Size:** 420 m<sup>2</sup> (suitable for half-court coverage; full-court coverage is recommended with four sets).

**System Components:** Speech System + Professional Sound Reinforcement System.

**System Functions:** The CD player supports multiple audio sources including CD, USB, SD, Bluetooth, and radio signals. Handheld microphones enable mobile audio amplification, while desktop condenser microphones are used for leadership speeches.



| No. | Model     | Product Name                                  | Quantity |
|-----|-----------|---|----------|
| 1   | D5821     | 2 Channel UHF Wireless Microphone System      | 1        |
| 2   | CM1608    | Portable Digital Mixer                        | 1        |
| 3   | LAM1430   | 350W Two-Way Passive Array Full Range Speaker | 4        |
| 4   | LAM1430SA | 800W 18" Active Subwoofer                     | 2        |
| 5   | LAM142    | Speaker Mobile Cabinet                        | 2        |
| 6   | D6572II   | Power Supply Sequence Controller              | 1        |
| 7   | LAM140    | Connect Cable                                 | 4        |
| 8   | MP15U     | Device Mobile Cabinet                         | 1        |



# ④-LA0316 Active Column Speaker System with Subwoofer



## Features

- Multi-Source Input Support:** Supports wired input, wireless, and portable input.
- Intelligent DSP Processing:** Includes scene modes, EQ adjustment, sound field optimization (POSIT), and subwoofer management (SUB).
- User-Friendly Operation:** Features a multifunctional knob, Bluetooth/MP3 control, and automatic protection functions.
- Expansion & Connectivity:** Supports signal daisy-chaining, power link output, and PC software control.
- Smart Standby and Preset Saving:** Automatically returns to the playback interface after 10 seconds of inactivity, and to the main interface after 30 seconds. Parameter adjustments can be saved via the SAVE option and will be automatically loaded on the next startup.
- Summary:** The LA0316 system is built around modular DSP control, combining high power and multi-scene performance for professional events with user-friendly operation through Bluetooth, USB, and one-touch optimization. Paired with a subwoofer for full-frequency coverage, it is ideal for small to medium-sized stages, conference rooms, and multifunctional halls. Its sound field positioning optimization and PC software integration offer professional users flexible tuning capabilities.



## Product Information

| LA0316 Active Column Speaker System with Subwoofer |   |
|--|---|
| 3"×8 Column Speaker                                |   |
| Drive Unit   | 3"×8 (25mm Voice Coil)                      |
| Rated Power  | 160W  |
| Program Power                                      | 160W  |
| Peak Power   | 160W  |
| Impedance  | 4Ω  |
| Frequency Response                                 | 98Hz~16kHz                                  |
| Sensitivity  | 96dB  |
| Max. SPL   | 118dB                                       |
| Signal Input                                       | 2×XLR/TRS "combo jack" mic/line/Hi-Z guitar |
| Supported Function                                 | BT/USB/MP3                                  |
| Directivity Angle                                  | 100°(H)×20°(V)                              |
| Product Dimensions (H×W×D)                         | 810×105×140mm                               |
| Net Weight   | 6.5kg                                       |
| Gross Weight                                       | 7.5kg                                       |
| Single 12" Subwoofer                               |   |
| Drive Unit   | 12"×1 (65mm Voice Coil)                     |
| Rated Power  | 300W  |
| Program Power                                      | 600W  |
| Peak Power   | 1200W                                       |
| Impedance  | 4Ω  |
| Frequency Response                                 | 38Hz~200kHz                                 |
| Sensitivity  | 96dB  |
| Max. SPL   | 121dB                                       |
| Signal Input                                       | 2×XLR/TRS "combo jack" mic/line/Hi-Z guitar |
| Supported Function                                 | BT/USB/MP3                                  |
| Product Dimensions (H×W×D)                         | 600×365×450mm                               |
| Net Weight   | 21kg  |
| Gross Weight                                       | 21.5kg                                      |

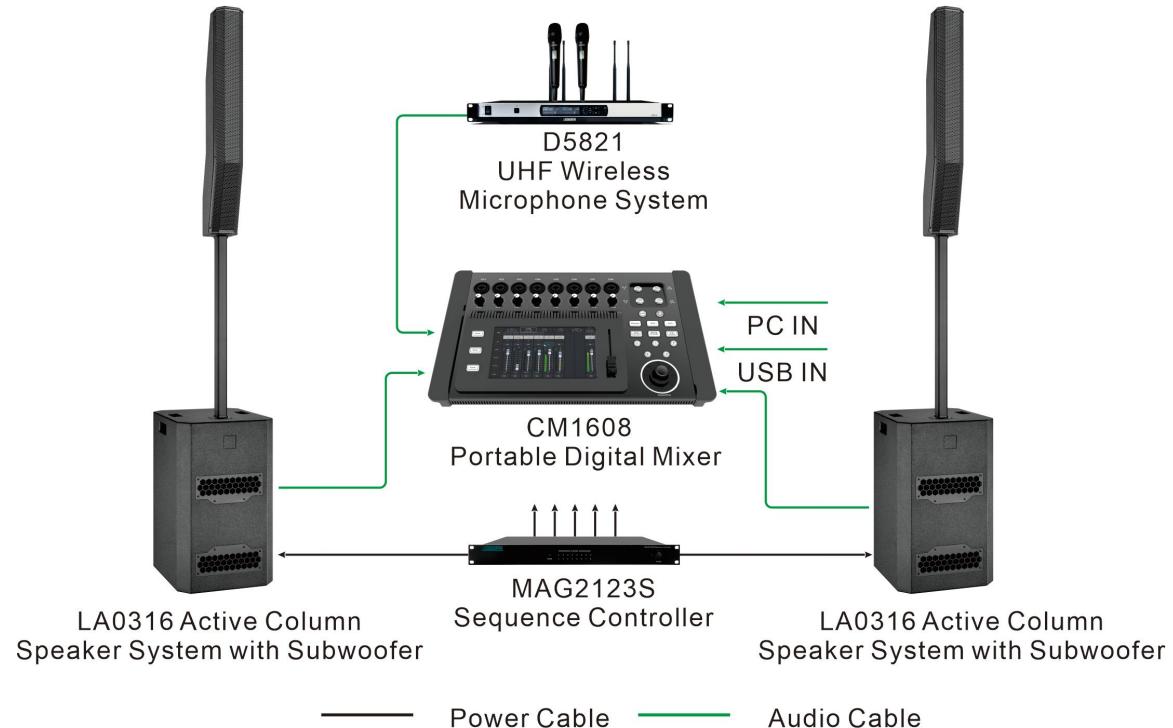
## ④-System Solution: Configuration for Wedding Venues

**Wedding Venue Size:** 200–300 m<sup>2</sup>

**System Components:** Speech System + Professional Sound Reinforcement System.

**System Functions:** Mobile audio amplification via handheld microphones, with sound mixing and adjustment through a mixer.

**System Advantages:** The LA0316 system efficiently covers wedding venues up to 300 m<sup>2</sup> / 300 guests, balancing clear speech intelligibility and musical performance. Its modular inputs enable seamless switching between MC, band, and background music, making it a cost-effective solution for medium-sized weddings.



| No. | Model    | Product Name                                | Quantity |
|-----|----------|---|----------|
| 1   | D5821    | 2 Channel UHF Wireless Microphone System    | 1        |
| 2   | CM1608   | Portable Digital Mixer                      | 1        |
| 3   | LA0316   | Active Column Speaker System with Subwoofer | 2        |
| 4   | MAG2123S | Sequence Controller                         | 1        |



# ⑤-LA-8300+LA-212SUB Active Line Array Speaker System

## Features

- Unrivaled Acoustic Performance:** Delivers an impressive 130dB peak SPL with ultra-low distortion of just 0.05%, ensuring lossless audio quality and precise directional control.
- Revolutionary Engineering Design:** A lightweight 13kg enclosure combined with PowerCon power chaining simplifies deployment and cabling, enhancing efficiency and flexibility.
- Professional-Grade Intelligent Management:** Equipped with 48kHz/24-bit DSP and triple protection mechanisms to ensure stable performance, along with quick mode switching and system compatibility.
- Powerful Bass System:** Equipped with dual 12" neodymium subwoofers, the system delivers powerful low-frequency response and rapid transient response, clearly surpassing traditional subwoofer performance.



## Project Pictures

### LA-8300

2x300W Active Line Array Speaker | 3" MF x8, 1" HF x8



LA-8300 adopts **eight 3" high-efficiency neodymium magnetic midrange speakers** and **eight 1" direct radiating neodymium magnetic tweeters**; all units are selected from **Lavoco speakers, an Italian brand**, with high-efficiency midrange frequency, sufficient energy, transparent sound, and clear and bright **high frequency**.

**Built-in DSP** audio processing module for precise debugging.

| LA-8300 350W 3" Active Line Array Speaker |  |
|---|--|
| Unit Component                            | MF 8×3" neodymium magnetic unit, HF 8×1" neodymium magnetic unit, with cooling module            |
| Horn Coverage (-6dB)                      | 120°(H)×16°(V)   |
| MAX. SPL. (PEAK)                          | 124dB (continuous)\130dB (peak)  |
| Frequency Range (±0.25dB)                 | 20Hz~20KHz   |
| Signal Processing                         | 48kHz, 24-bit DSP processor, delay: input 120ms\output 20ms, filter, EQ, compressor, limiter     |
| Amplifier Power                           | Class-D, 8Ω×2×300W   |
| Speaker Power                             | 350W   |
| S/N Ratio                                 | > 100dB  |
| Damping Factor                            | > 300 (under the condition of 8Ω load, 400kHz)   |
| Distortion                                | < 0.05% (under the condition of 20Hz~20KHz, 8Ω load, 3dB)  |
| Gain                                      | 34dB   |
| Signal Input/Output                       | XLR 3-pin female line-level input  |
| Power Input/Output                        | Neutrik PowerCon (Max: 15A)  |
| Power Supply                              | AC100~240V, 50/60Hz  |
| Control                                   | On/Off switch  |
| Protection                                | Input current limiter, short circuit protection, on/off mute, DC fault protection, power limiter |
| Case Material/Painting                    | 15mm selected multi-layer wood panel, black polyurea paint                                       |
| Product Dimensions (H×W×D)                | 360mm×260mm×288mm  |
| Net Weight                                | 13Kg   |
| LA-212SUB 800W 12" Active Subwoofer       |  |
| Unit Component                            | LF 2×12" (300mm) neodymium magnetic woofer   |
| MAX. SPL. (PEAK)                          | 134dB  |
| Frequency Response (±3dB)                 | 50Hz ~ 300Hz   |
| Digital Amplifier Module                  | DSP processor, class-D amplifier   |
| Amplifier Channel/Power                   | Single channel, 1500W/8Ω   |
| Subwoofer Power                           | 800W   |
| THD                                       | < 0.1%   |
| Input/Output                              | XLR (balanced)   |
| Power Supply                              | AC110V~250V, 50Hz/60Hz   |
| Product Dimensions (H×W×D)                | 706mm×400mm×580mm  |
| Net Weight                                | 38.5Kg   |

## ⑤-System Solution: Configuration for Auditoriums

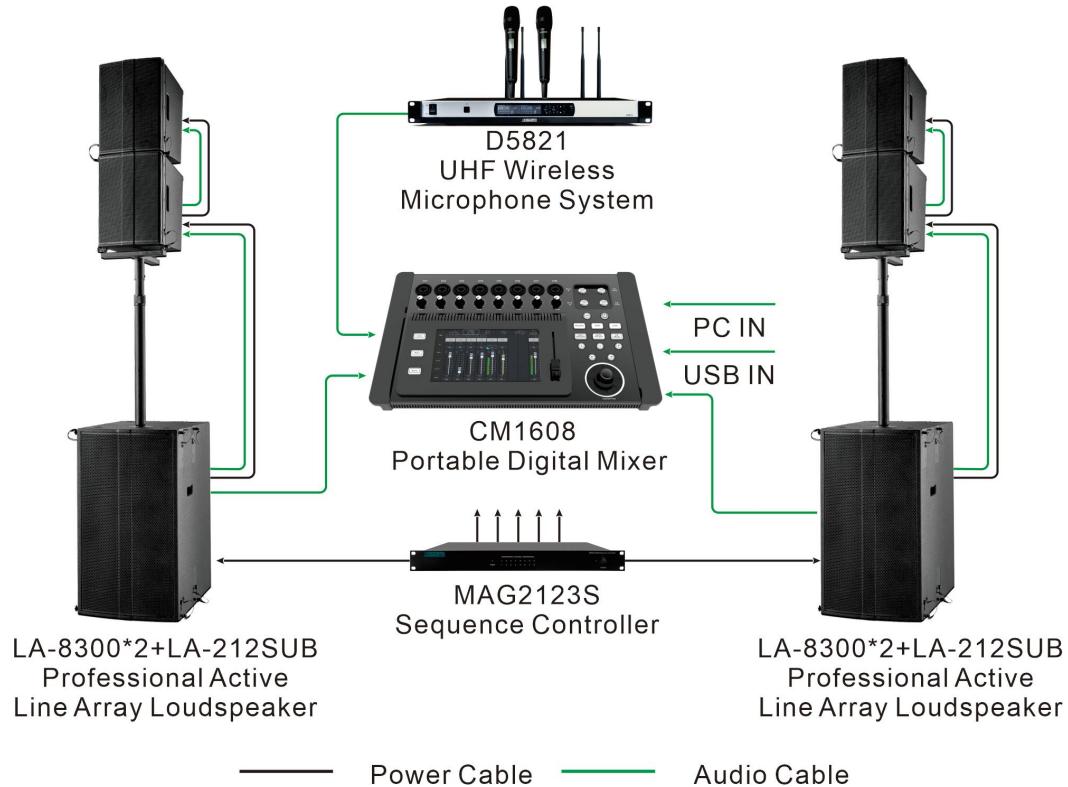
**Auditorium Size:** 300–500 m<sup>2</sup>, accommodating approximately 300 people.

**System Components:** Speech System + Professional Sound Reinforcement System.

**System Functions:** Mobile audio amplification via handheld microphones, with sound mixing and adjustment through a mixer.

### System Advantages:

The LA-8300 and LA-212SUB are designed with a focus on sound field uniformity, dynamic performance, and deployment flexibility—meeting the demanding requirements of auditoriums for speech clarity, musical fidelity, and seamless multi-scene transitions.



| No. | Model     | Product Name                             | Quantity |
|-----|-----------|--|----------|
| 1   | D5821     | 2 Channel UHF Wireless Microphone System | 1        |
| 2   | CM1608    | Portable Digital Mixer                   | 1        |
| 3   | LA-8300   | 350W 3" Active Line Array Speaker        | 4        |
| 4   | LA-212SUB | 800W 12" Active Subwoofer                | 2        |
| 5   | MAG2123S  | Sequence Controller                      | 1        |



# ⑥-DSP1280 Professional Active Line Array Speaker System



## Features

- Easy to transport:** (2 column speakers +1subwoofer +accessory bag + flight case ), About 80KG / Set.
- All-Weather Durability:** Polyurea waterproof coating provides dust, water, and moisture resistance, ensuring reliable performance in harsh outdoor environments.
- High SPL and Long-Range Coverage:** Peak power of 3200W with a maximum system SPL of 130.74 dB, featuring a wide frequency response from 35 Hz to 20 kHz.
- Precise Sound Field Control:** 140° horizontal x 25° vertical directivity with modular array flexibility to optimize sound field uniformity.
- High-Definition Sound Reinforcement:** Dual 44mm tweeters, 6x5.5" midrange drivers, and dual 12" bass units with active crossover at 150 Hz and 1.2 kHz to minimize distortion.

### SEGMENTED SOUND SOURCE TECHNOLOGY



**800W**  
6 x 5.5" Passive Column Array Speaker

2 x 44mm  
HF drivers  
6 x 5.5"  
MF drivers  
125dB  
Max. SPL

Built-in DSP audio processing module for precise debugging.

### KEY HIGHLIGHTS



2 x 12" Active subwoofer with 2\*1200W DSP amplifiers



Advanced polyurea waterproof paint



Air-box package



Plug-and-play package



**800W**

2 x 12" Active Subwoofer

2 x 12"  
SUB drivers  
2x1200W  
DSP amplifier  
124dB  
Max. SPL

Unique storage handle design

Streamlined mold design

Built-in DSP and  
Class D Amplifier Board



Horizontal Waveguide

140° Horizontal \* 25° Vertical

| DSP1280 Professional Line Array Speaker System |   |
|--|---|
| Frequency Response                             | 35Hz-20KHz(+3dB)1watt@1m  |
| Sensitivity                                    | 96dB Full-range Speaker, 95dB Subwoofer   |
| MAX.SPL.                                       | 125dB Full-range Speaker, 124dB Subwoofer   |
| Nominal impedance                              | 4Ω  |
| Nominal Power                                  | 800W Full-range Speaker, 800W Subwoofer   |
| Peak Power                                     | 3200W   |
| Dispersion H x V                               | 140° Horizontal*25° Vertical  |
| Crossover Point                                | Active 150Hz, Built-in Mid and High-frequency Drivers:1.2KHz  |
| HF drivers                                     | 2 x 44mm Tweeters   |
| MF drivers                                     | 6 x 5.5" Midrange drivers (35mm voice coil)   |
| SUB drivers                                    | 2x12"Subwoofers(75mm voice coil)  |
| Active Power Amplifier                         | 2*1200W   |
| Paint  | Polyurea Waterproof and Scratch-resistant Paint   |
| Product Dimensions                             | Upper Column Speaker:700Hx150Wx190D(mm)<br>Lower Column Speaker:650Hx150Wx170D(mm)<br>Subwoofer:860Hx340Wx 350D(mm) |
| Net Weight                                     | Upper Column Speaker: 14kg<br>Lower Column Speaker: 11kg<br>Subwoofer: 32kg   |

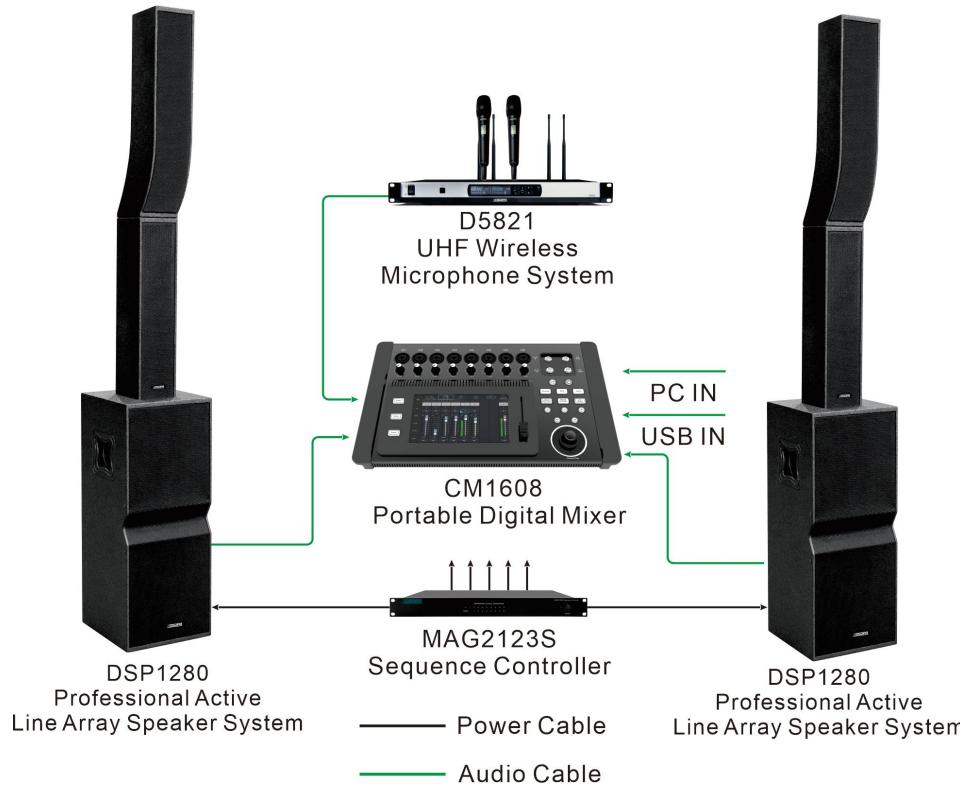
## ⑥-System Solution: Configuration for Compact Sports Venues

**Sports Venue Size:** 60m (L) × 40m (W) × 12m (H), covering both the competition area and surrounding spectator seating.

**System Components:** Speech System + Professional Sound Reinforcement System.

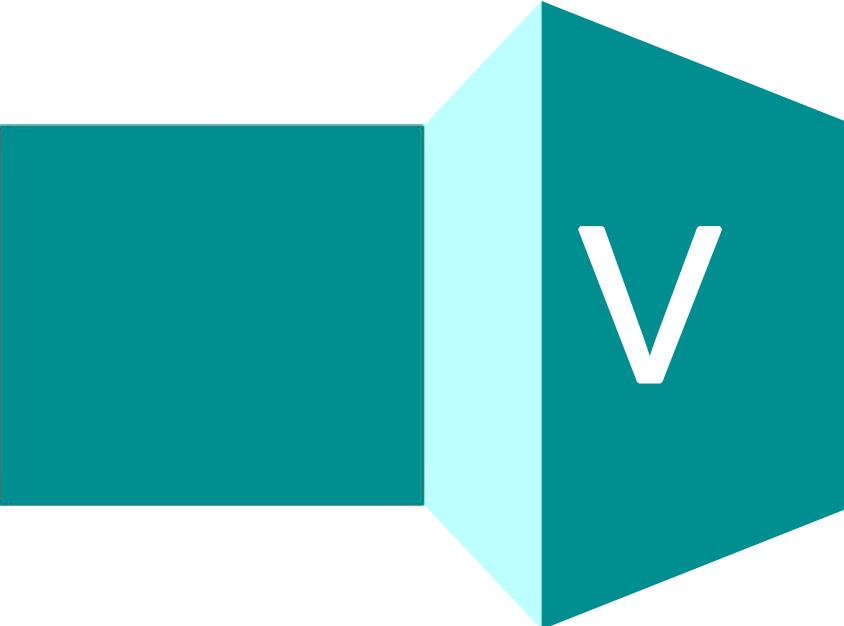
**System Functions:** Mobile audio amplification via handheld microphones, with sound mixing and adjustment through a mixer.

**System Advantages:** The DSP1280 offers three key advantages—high sound pressure level, precise directivity, and strong resistance to environmental interference—perfectly aligning with the core requirements of gymnasiums for speech intelligibility, sound field uniformity, and reliable operation.



| No. | Model    | Product Name                                  | Quantity |
|-----|----------|---|----------|
| 1   | D5821    | 2 Channel UHF Wireless Microphone System      | 1        |
| 2   | CM1608   | Portable Digital Mixer                        | 1        |
| 3   | DSP1280  | Professional Active Line Array Speaker System | 2        |
| 4   | MAG2123S | Sequence Controller                           | 1        |





V



**Specification Comparison**

# ①-Specification Comparison-FR/MF/HF

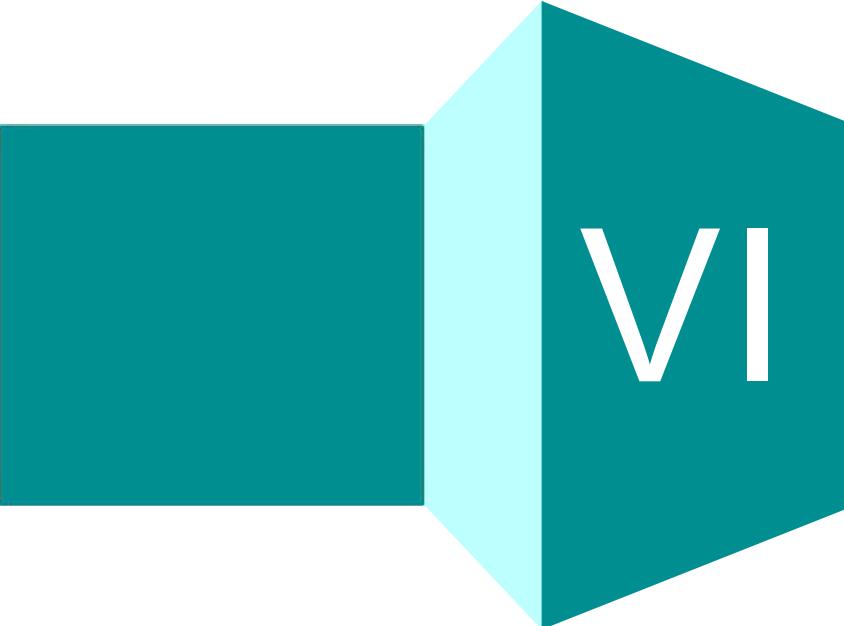


| Model              | LA-4240                          | LA-4241                          | LAM1430                   | LA0316                 | LA-8300                               | DSP1280   |
|--------------------|----------------------------------|----------------------------------|---------------------------|------------------------|---------------------------------------|---|
| Product            | Passive Column Speaker           | Passive Column Speaker           | Two-way Passive Speaker   | 3"×8 Column Speaker    | Active Line Array Speaker             | Passive Column Array Speaker  |
| Rated Power        | 240W                             | 280W                             | MF:350W/HF:120W           | 160W                   | 600W                                  | 800W  |
| Nominal Impedance  | 8Ω                               | 16Ω                              | MF: 16Ω / HF: 16Ω         | 4Ω                     | 8Ω                                    | 4Ω  |
| Speaker Unit       | 4x4" Full Range Unit (Per)       | 4x4" Full Range Unit (Per)       | 10"MF×1, 1.75"HF×2        | 3"×8 (25mm Voice Coil) | MF 8x3", HF 8x1", with cooling module | MF: 6 x 5.5" Midrange drivers (35mm voicecoil)<br>HF:2x 44mm Tweeters |
| Max.SPL            | 120dB (continuous)/ 130dB (Peak) | 120dB (continuous)/ 130dB (Peak) | MF: 120±2dB / HF: 126±2dB | 118dB                  | 124dB(continuous)\130dB (Peak)        | 125dB Full-range Speaker  |
| Direct.(-6dB)      | 120° (H)~80° (V)                 | 120° (H)~80° (V)                 | 100°(H)×10°(V)            | 100°(H)×20°(V)         | 120° (H)~16° (V)                      | 140° (H)~25° (V)  |
| Frequency Range    | 100Hz-20kHz                      | 100Hz-20kHz                      | 65Hz-18kHz                | 98Hz~16kHz             | 20Hz-20KHz(±0.25dB)                   | 35Hz-20KHz(±3dB)  |
| Sensitivity(1m/1W) | 98dB                             | 98dB                             | MF: 96±2dB / HF: 104±2dB  | 96dB                   | 98dB                                  | 96dB  |
| Dimensions(HxWxD)  | 500mmx125mmx138mm                | 500mmx125mmx138mm                | 500mm×296mm×342mm         | 810×105×140mm          | 360mmx260mmx288mm                     | 700Hx150Wx 190D(mm)<br>650Hx150W x170D(mm)                            |
| Net Weight         | 6.8kg                            | 7.2kg                            | 21Kg                      | 6.5kg                  | 13Kg                                  | 14kg +11kg  |

## ②-Specification Comparison-Subwoofer



| Model              | LA-150SUB                                      | LA-180SUB                                     | LAM1430SA          | LA0316                  | LA-212SUB         | DSP1280                          |
|--------------------|--|---|--------------------|-------------------------|-------------------|----------------------------------|
| Product            | Active Subwoofer                               | Active Subwoofer                              | Active Subwoofer   | Active Subwoofer        | Active Subwoofer  | Active Subwoofer                 |
| Rated Power        | 700W (Continuous), 1600W (Peak)                | 1000W (Continuous), 4000W (Peak)              | 800W (AES)         | 300W                    | 800W              | 800W                             |
| Nominal Impedance  | 8Ω   | 8Ω  | /                  | 4Ω                      | 8Ω                | 4Ω                               |
| Speaker Unit       | 1 × 15" Woofer, 220mm magnet /100mm voice coil | × 18" Woofer, 220mm Magnet / 100mm Voice Coil | 10"MF×1, 1.75"HF×2 | 12"×1 (65mm Voice Coil) | LF 2*12"neo       | 2x12"Subwoofers(75mm voice coil) |
| Max.SPL            | 130dB (continuous)/ 136dB (Peak)               | 131dB (continuous)/ 136dB (Peak)              | 127±2dB            | 121dB                   | 134dB (peak)      | 124dB                            |
| Frequency Response | 32Hz~300Hz                                     | 28Hz~300Hz                                    | 40Hz-220Hz         | 38Hz~200kHz             | 50Hz~300Hz (±3dB) | 35Hz-20KHz(+3dB)                 |
| THD                | ≤0.05%   | ≤0.05%  | < 0.05%            | /                       | < 0.01%           | /                                |
| Dimensions(WxHxD)  | 500mm × 486mm × 550mm                          | 502mm ×608mm × 650mm                          | 500mm×650mm×705mm  | 365mm×600mm×450mm       | 400mm*706mm*580mm | 860mm*340mm*350mm                |
| Net Weight         | 35kg   | 35kg  | 49kg               | 21kg                    | 38.5Kg            | 32Kg                             |



VI



## Application Scenarios

## VI. Application Scenarios



Conference Centers



Mobile Performances



Multifunctional Halls



Ceremonial Events



Auditoriums

The mobile active line array sound reinforcement system offers high flexibility, precise sound control, and broad applicability—capable of meeting diverse audio requirements in complex environments. With outstanding sound quality and stable performance, it represents a key direction in the future development of audio technology.



# CREATING THE BEST

# SOUNDING THE WORLD

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