



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

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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.



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



IV



System Solution

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

Features

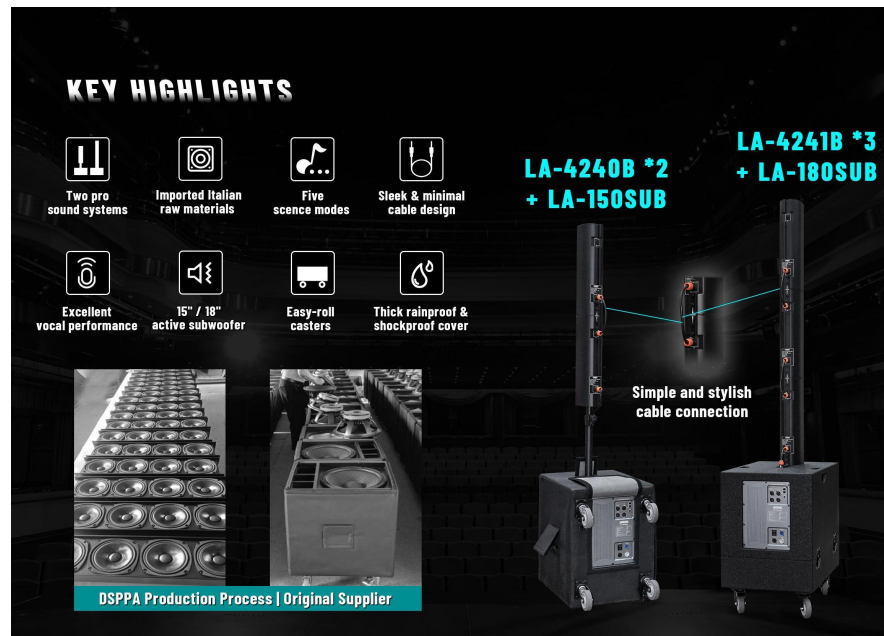
- **All-Weather Environmental Resistance:** The full aluminum enclosure and waterproof design ensure stable system operation under harsh weather conditions.
- **Efficient Sound Field Control:** A 160° vertical coverage angle combined with DSP scene modes optimizes sound clarity and coverage.
- **Rapid 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**

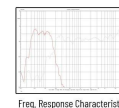
Total net weight (56kg); Package weight (59kg)



LA-4240B

**280W 4"x4" Passive
Column Array Speaker**

4"x4" Full-range drivers Coverage Angle H 120° x V 80° Max. SPL 120dB



Freq. Response Characteristics



LA-150SUB

**700W 15"x1" Active
Powered Subwoofer**

15"x1" Subwoofer 1200W + 800W @ 8Ω DSP amplifier Max. SPL 130dB

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(1w/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(1w/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

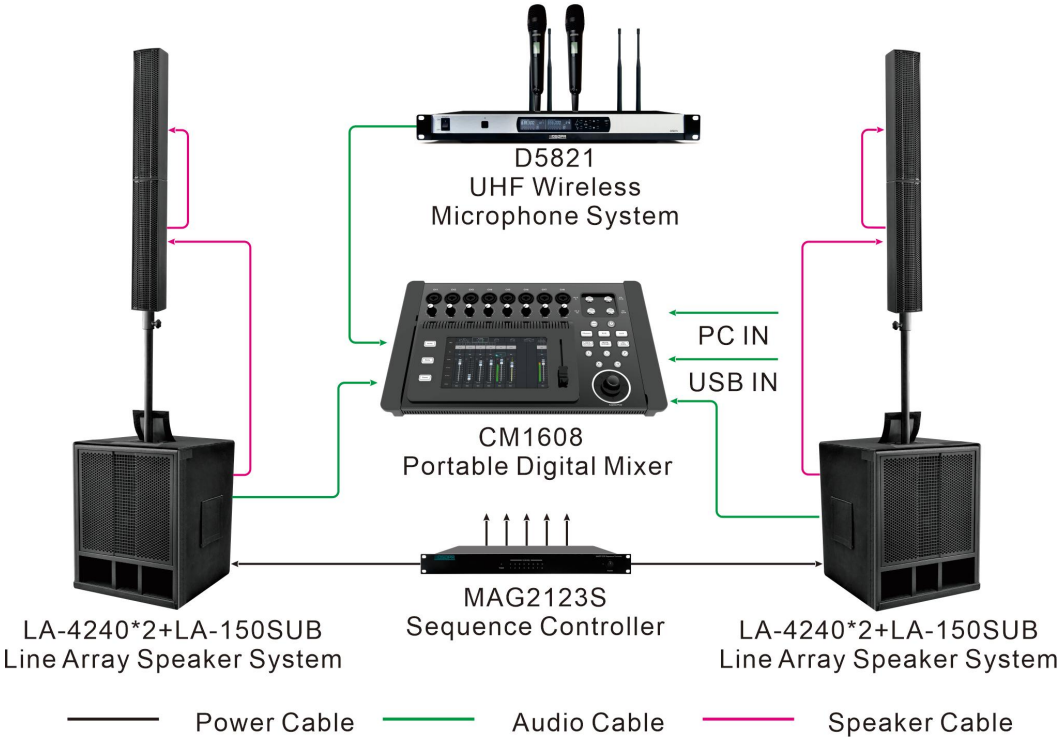
Outdoor Performance Venue: 300 square meters.

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

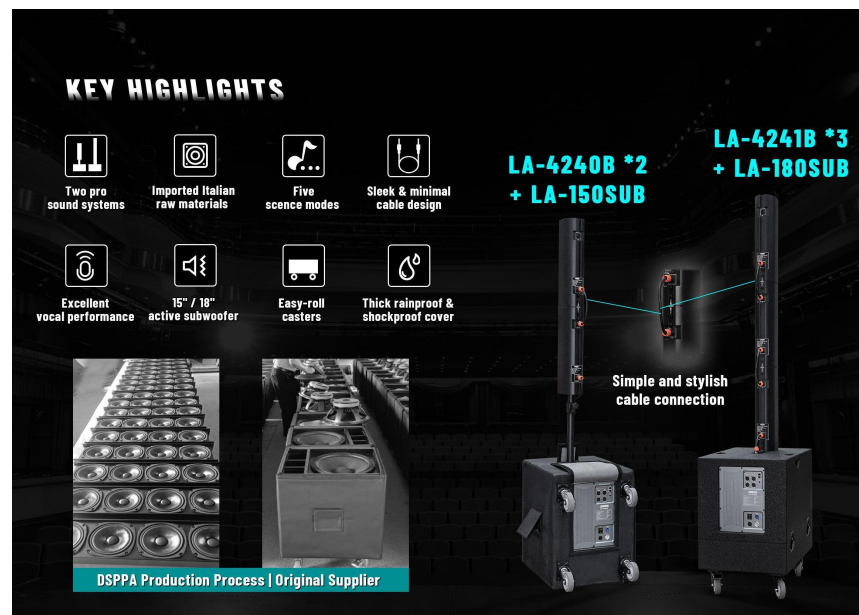
Mode 1: Outdoor Mode - Channel A signal input, controlling both the full-range speaker and subwoofer.

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.

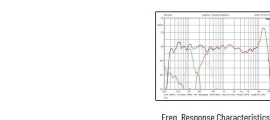
Mode 4: Indoor Mode - Channel A and B signal inputs simultaneously, with A controlling the subwoofer and B controlling the full-range speaker.

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



LA-180SUB

1000W 18"x1" Active Powered 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(WxHxD)	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(1w/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

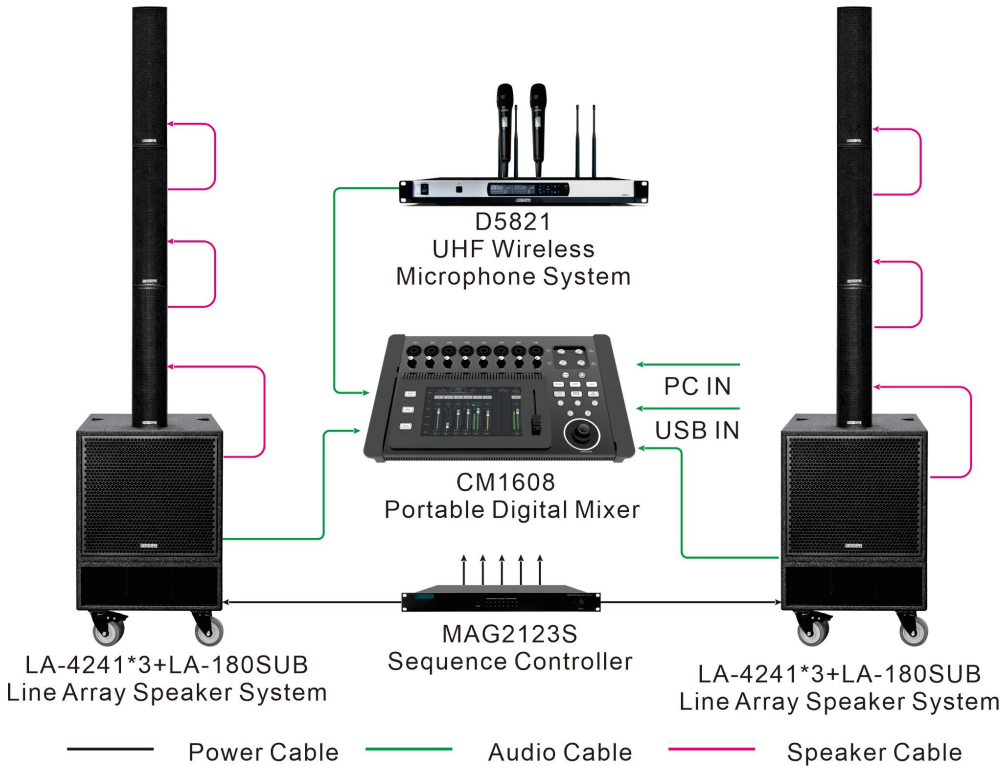
Conference Hall Area: 300–500 m², accommodating approximately 200–300 people.

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.

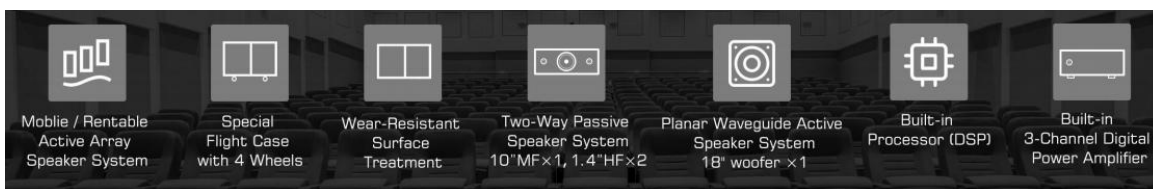
No.	Model	Product Name	Quantity
1	D5821	2 Channel UHF Wireless Microphone System	1
2	CM1608	Portable Digital Mixer	1
3	LA-4241B	280W 4" Passive Line Array Loudspeake	4
4	LA-180SUB	1000W 15" Active Subwoofer	2
5	MAG2123S	Sequence Controller	1



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"MF×1, 1.4"HF×2;
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 ×1; 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

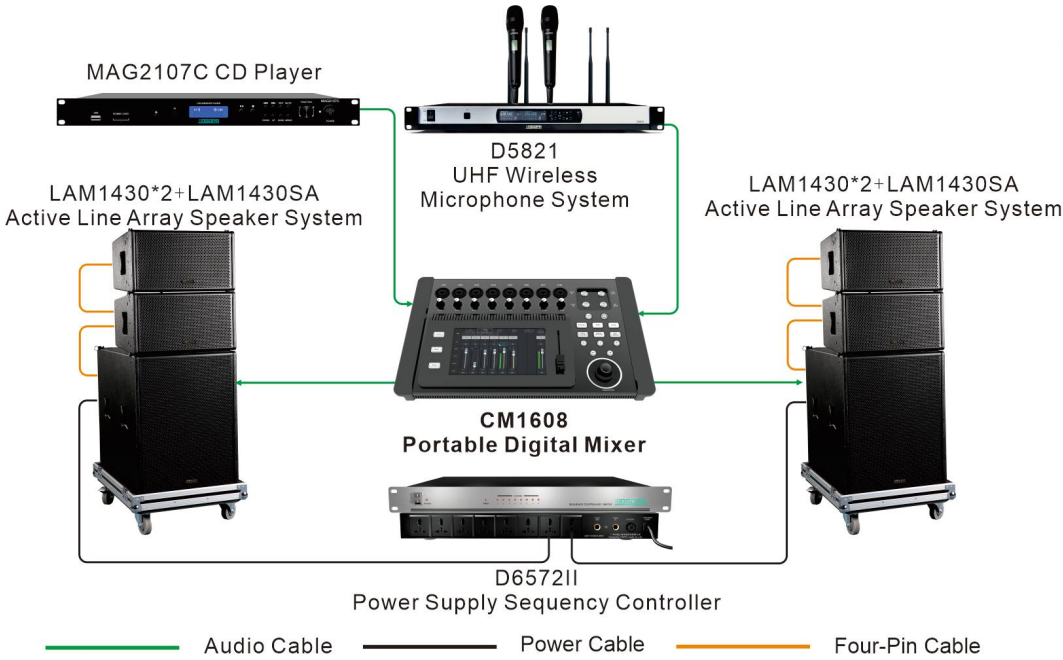
③-System Solution: Configuration for Indoor Basketball Courts

Indoor Basketball Court Size: 420 m² (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.

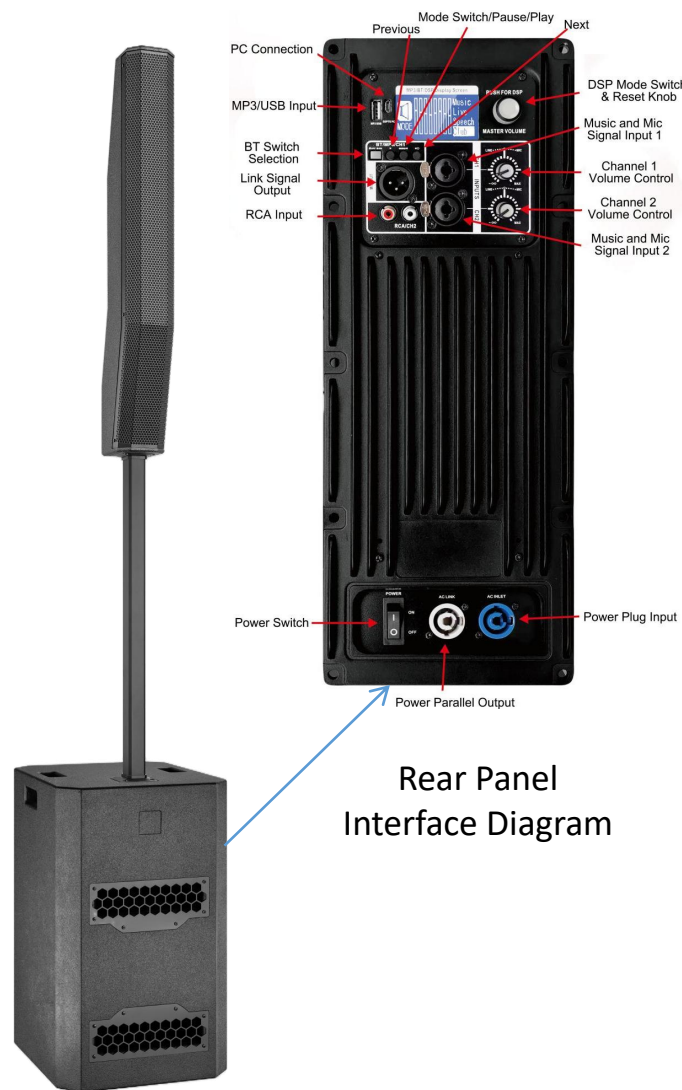
No.	Model	Product Name	Quantity
1	D5821	2 Channel UHF Wireless Microphone System	1
2	CM1608	Portable Digital Mixer	1
3	LAM1430	350W Two-Way Passive Array Full Range Speaker	4
4	LAM1430SA	800W 18" Active Subwoofer	2
5	LAM142	Speaker Mobile Cabinet	2
6	D6572II	Power Supply Sequency Controller	1
7	LAM140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

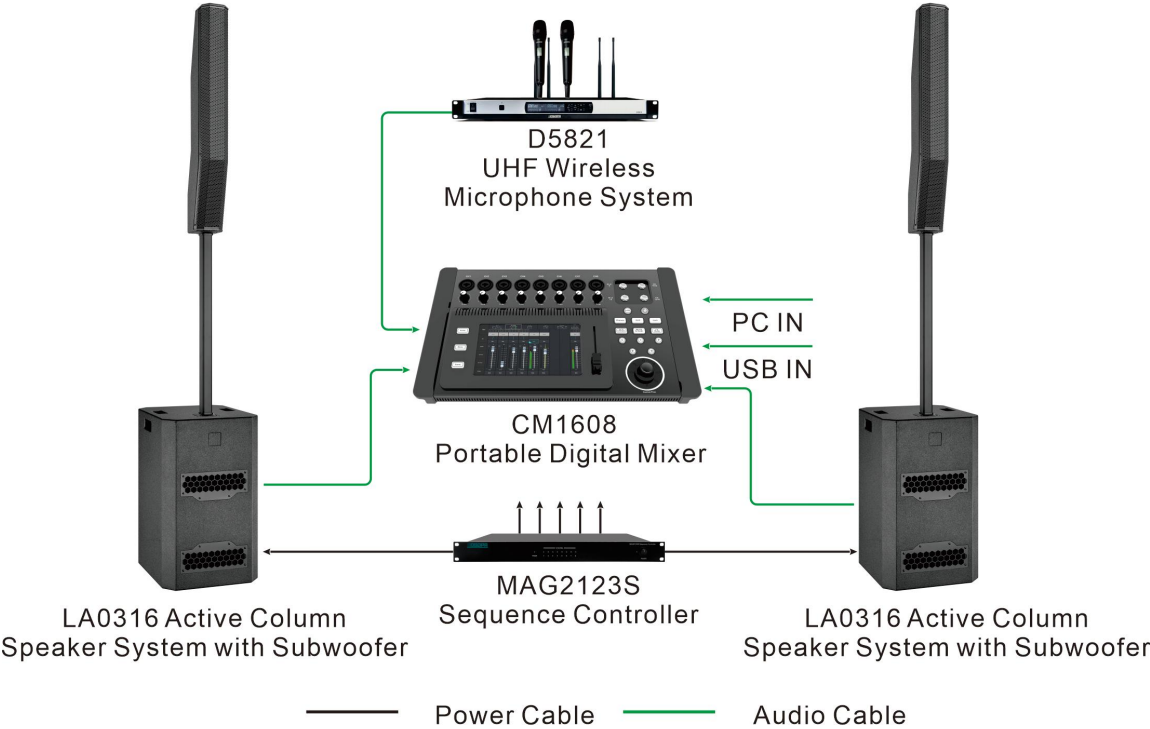
Wedding Venue Size: 200–300 m²

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 m² / 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

- **Unrivalled 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.



LA-8300
2x300W Active Line Array Speaker | 3" MF x8, 1" HF x8

300W AES Power
130dB Max SPL
13KG N.W.

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.

Software control

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

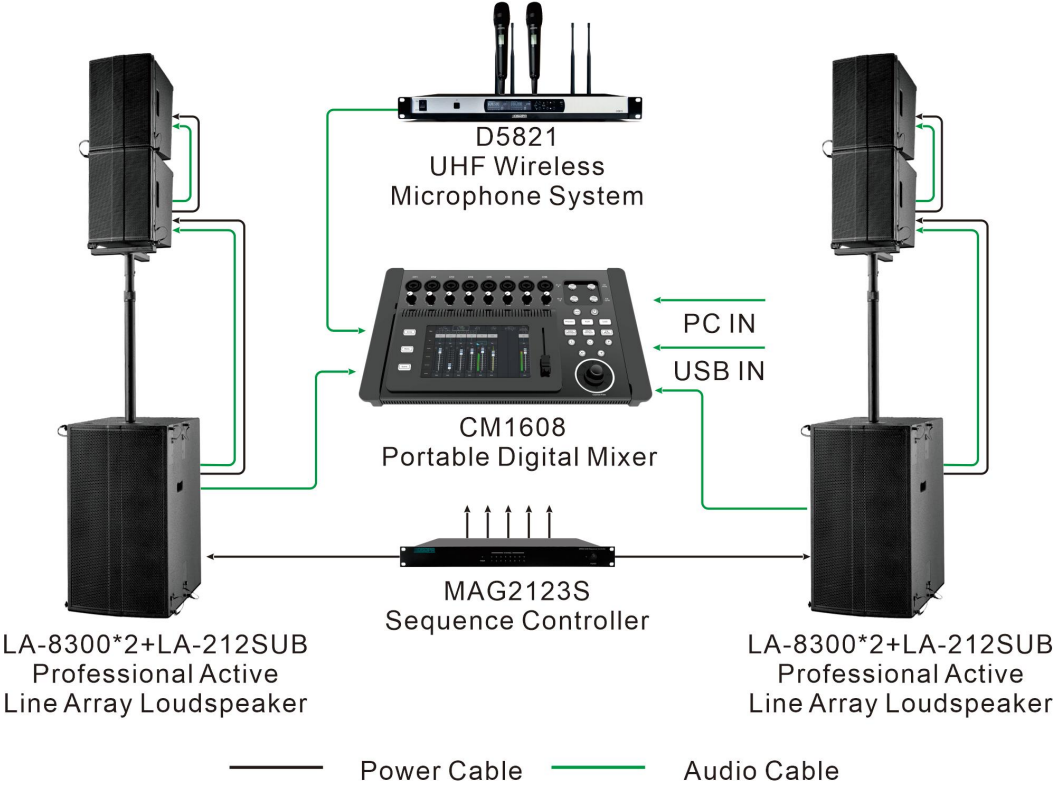
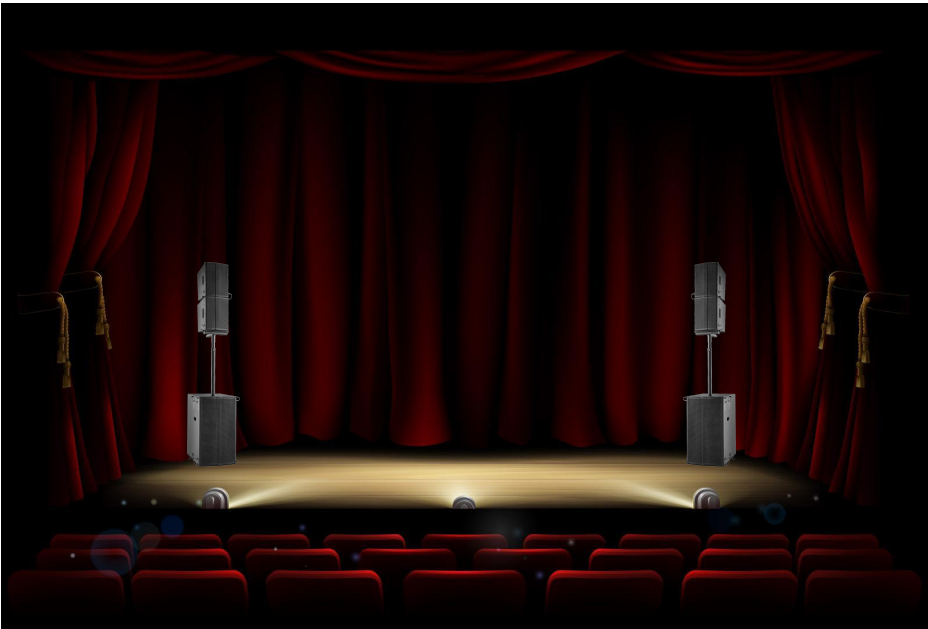
Auditorium Size: 300–500 m², accommodating approximately 300 people.

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 × 25° vertical directivity with modular array flexibility to optimize sound field uniformity.
- **High-Definition Sound Reinforcement:** Dual 44mm tweeters, 6×5.5" midrange drivers, and dual 12" bass units with active crossover at 150 Hz and 1.2 kHz to minimize distortion.

800W
6 × 5.5" Passive Column Array Speaker

Clear & Layered Sound

Segmented sound source technology

- Excellent directivity in frequencies above 300Hz
- HF drivers coupled within a DOSC waveguide
- Precise narrow vertical directivity
- High performance in diverse acoustic environments

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

Software **Out 2** Settings: 11-Band EQ Adjustment

Frequency Response Characteristics
Distortion Characteristics

Built-in DSP audio processing module for precise debugging.

DSP1280Professional 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 ColumnSpeaker:700Hx150Wx190D(mm) LowerColumnSpeaker:650Hx150Wx170D(mm) Subwoofer:860Hx340Wx 350D(mm)
Net Weight	Upper Column Speaker: 14kg sLower Column Speaker: 11kg Subwoofer: 32kg

KEY HIGHLIGHTS

- 800W + 800W speaker system
- 130.74dB max.SPL
- Segmented sound source technology
- Software control
- 2 x 12" Active subwoofer with 2*1200W DSP amplifiers
- Advanced polyurea waterproof paint
- Air-box package
- Plug-and-play package

SEGMENTED SOUND SOURCE TECHNOLOGY

① **Streamlined design**

PRECISION HIGHS WITH POWER

② **Coated with advanced polyurea waterproof paint**
All waterproof model (customized)

COMPACT YET POWERFUL

③

Horizontal Waveguide
140° Horizontal * 25° Vertical

800W
2 × 12" Active Subwoofer

2 × 12" SUB drivers
2*1200W DSP amplifier
124dB Max. SPL

Unique storage handle design
Streamlined mold design

Frequency Response Characteristics
Distortion Characteristics

Software **Out 1** Settings: 11-Band EQ Adjustment

Built-in DSP and Class D Amplifier Board

⑥-System Solution: Configuration for Compact Sports Venues



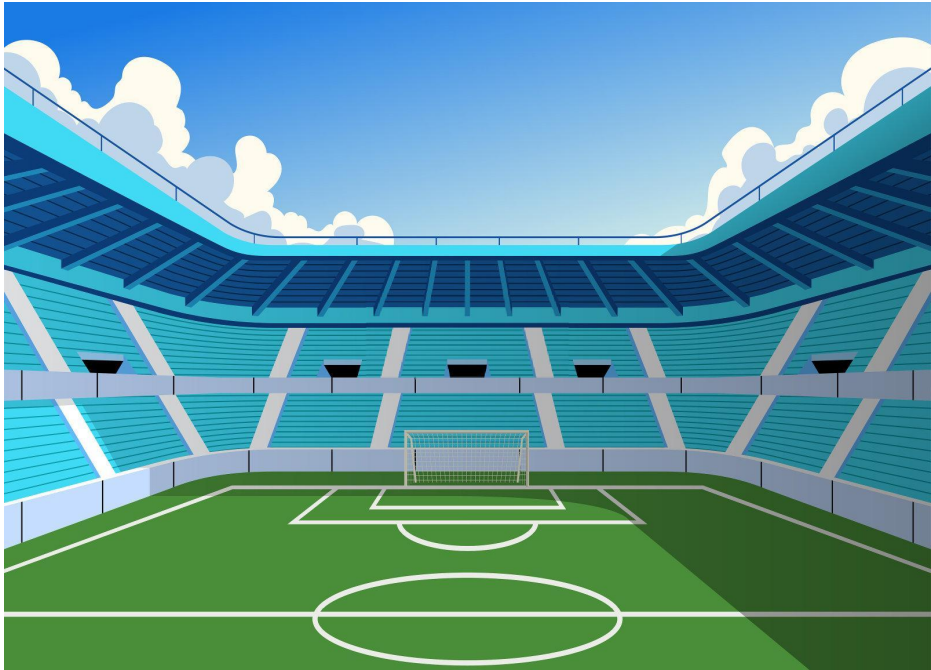
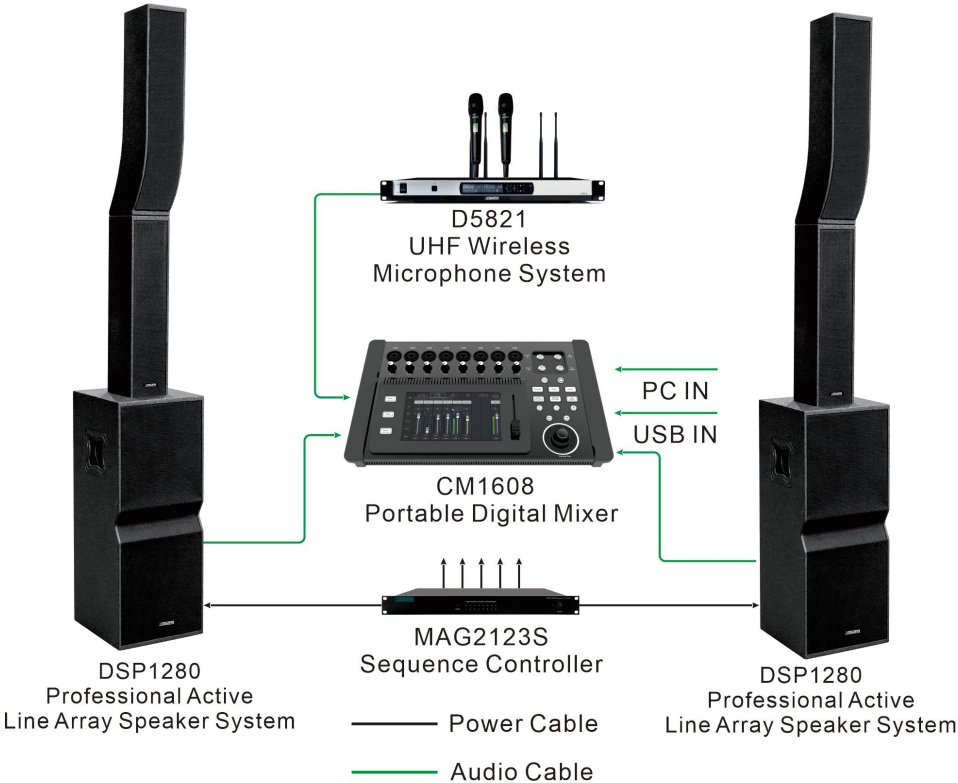
Sports Venue Size: 60m (L) × 40m (W) × 12m (H), covering both the competition area and surrounding spectator seating.

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



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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	M F: 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) 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-18kH6	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) 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

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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.



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Guangzhou DSPPA Audio Co., Ltd.

Tel: +86-20-37166520

Email: export@dsppa.com

conference@dsppa.com

Address: NO.1 Xiahe Road, Jianggao,
Baiyun, Guangzhou, Guangdong, China

PA / VA Website: www.dsppatech.com

Conference & ProAV Website: www.dsppacs.com

