



Conference Sound
Reinforcement System for
Small Conference Rooms

1. Solution Overview

- The conference sound reinforcement system is a precision-engineered solution known for its stable performance and high reliability. It is designed to provide clear and even sound coverage within the meeting room, ensuring that all participants can hear the speech content clearly.



Project Requirements

- It provides clear and stable sound transmission, ensuring attendees can hear the speaker's speech content.
- It facilitates remote control of each microphone, including volume adjustment, sensitivity control, and muting.
- The system is easy to install and operate, reducing maintenance costs.
- Its aesthetically pleasing design complements the conference room decor.

2. Sound Reinforcement Configuration for Small Conference Rooms (60-80 People)

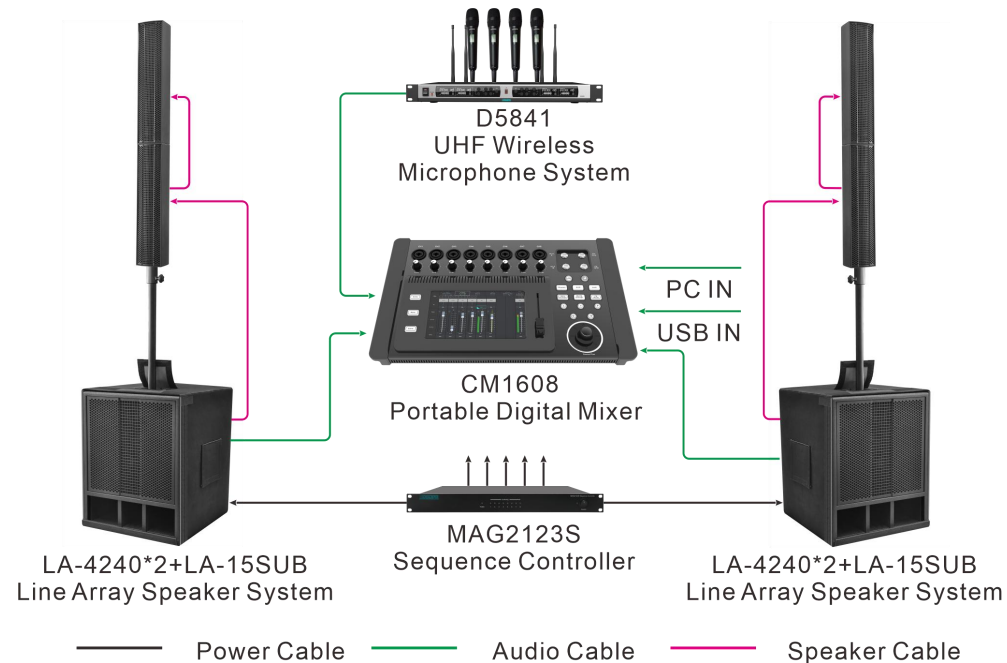
System Configuration

Small conference room: 200-300 square meters.

System composition: Speaking system + professional sound reinforcement system.

System functions: Handheld wireless microphones for mobile audio amplification, with a mixing console for audio source adjustment.

System advantages: The CM1608 is a lightweight and portable audio processing device featuring multi-channel input, volume control, professional audio effects processing, and signal distribution. It offers flexibility, excellent sound dispersion, and high convenience in small meeting rooms, providing an enhanced audio experience to meet diverse audio needs.



No.	Model	Product Name	Quantity
1	D5841	UHF Wireless Microphone System	1
2	CM1608	Portable Digital Mixing Console	1
3	LA-4240	240W 4.5" Passive Line Array Loudspeaker	4
4	LA-15SUB	600W 15" Active Subwoofer	2
5	MAG2123S	Sequence Controller	1
6	MP15U	Vertical Luxury Rack	1

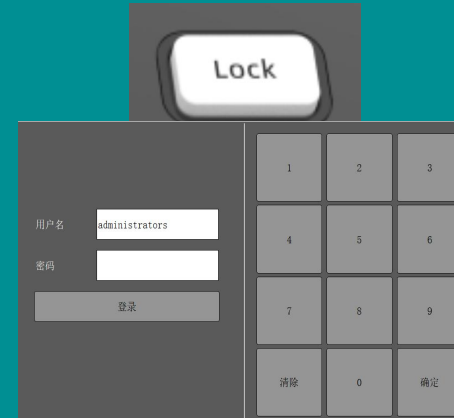


3. Function Highlight - I



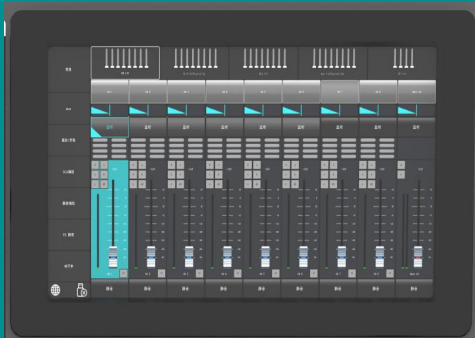
- Input: 8 XLR/TRS balanced microphone inputs, 2 stereo TRS balanced inputs, USB playback and recording channel.
- Output: 2 Main LR balanced outputs, 4 AUX balanced outputs.

Abundant Digital Interfaces



- Anti-misoperation: It maintains live scene data and prevents accidental operation.
- Stability: It ensures that audio settings remain unchanged during performances, enhancing audio stability.
- Security: In a multi-user environment, it prevents unauthorized changes, protecting audio configurations and improving security.

Unique LOCK Button



1024*600 7" HD Capacitive Touch Screen

- High resolution display: It provides clear and detailed images, enhancing the readability of interface elements and text.
- Capacitive touch: With fast response speed, it offers a smooth touch experience.
- User-Friendly: The touch screen enables non-professional users to easily navigate, improving usability.

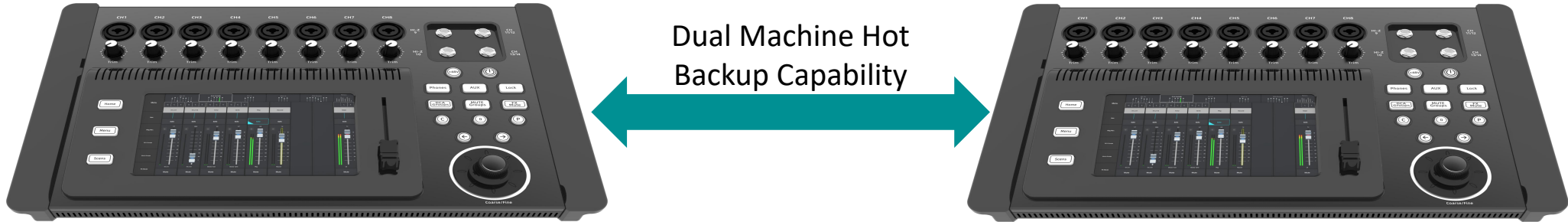


Portable Design

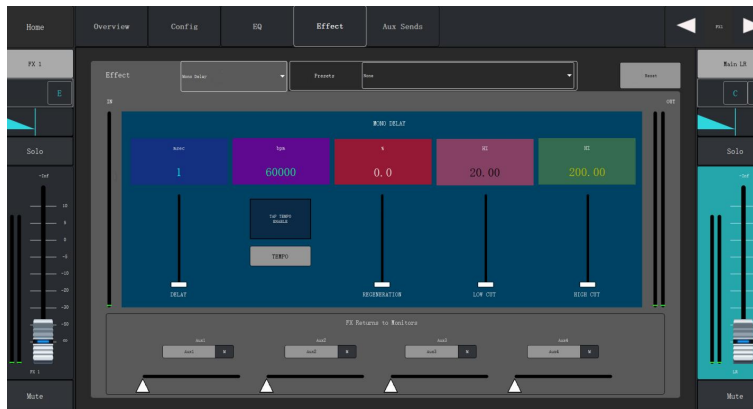
- Portability: Conveniently designed for outdoor settings, small meeting rooms, and small bands, making it suitable for various compact applications.
- Lightweight: Its compact size and light weight allow for easy transport and mobility, ideal for quick deployment in different environments.
- Multifunctionality: Despite its small size, it is fully equipped with features such as multi-channel input, mixing, and effects processing.

4. Function Highlight - II

Real-Time Data Synchronization for Dual Machine Hot Backup



Effect Processor



- 5 effect processors: It includes various types such as delay, chorus, reverb, and pitch shift.
- 4 effect processor channel engines: Each processor supports different presets for versatile usage.
- Diverse effects: It offers a range of sound effect options to meet the production needs of different music styles.

5. Function Highlight - III



- The control software supports 5 mainstream operating systems including Windows, Linux, macOS, Android, and iOS.
- It supports languages such as English, Spanish, Simplified Chinese, and Traditional Chinese.

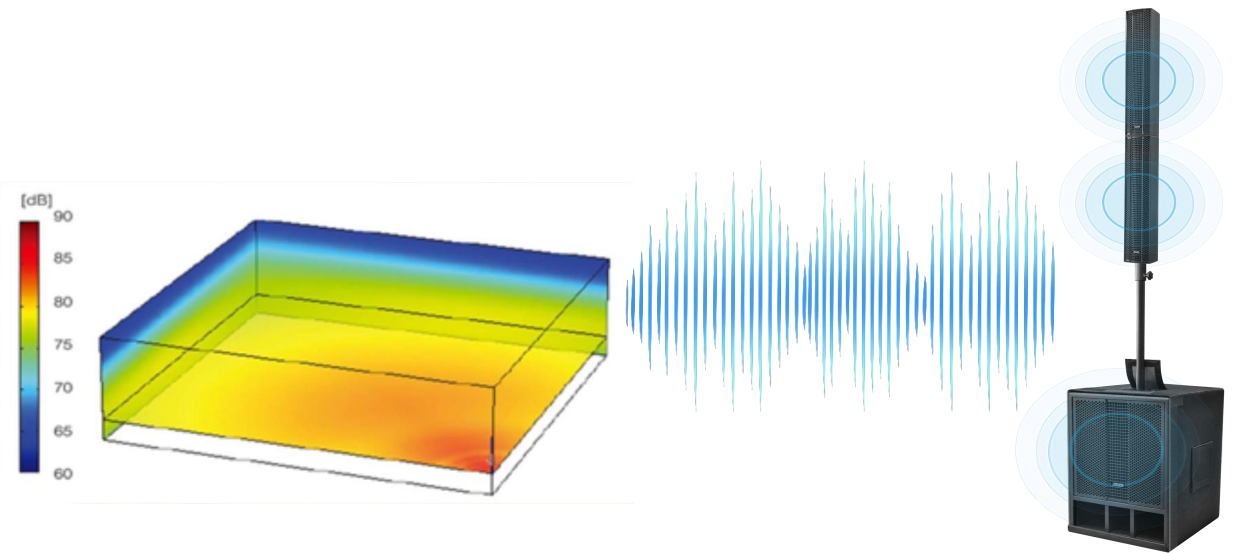
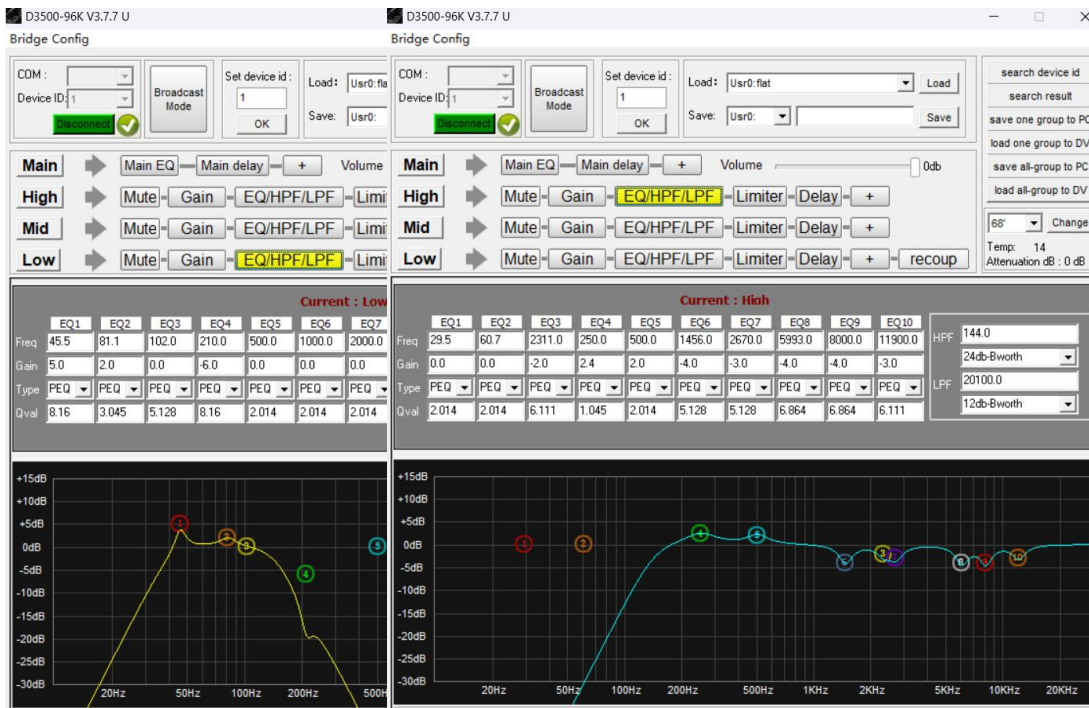
6. Function Highlight - IV

DSP Processing

- **Sound quality optimization:** It adjusts the frequency response of audio signals using an equalizer to compensate for speaker response flaws, providing a flatter and more natural sound quality.
- **Effect enhancement:** The DSP can create various sound effects, such as 3D audio and surround sound, enhancing the listener's immersive experience.
- **System protection and optimization:** It prevents signal peaks from exceeding maximum thresholds to avoid sound distortion, and optimizes speaker drivers to ensure optimal performance under different loads.

Uniform Sound Coverage

- The sound is evenly distributed within the coverage area, ensuring that listeners can hear clear and consistent sound effects from any position.



7. Function Highlight -V



Banquets



Meetings



Concerts



Turn the Mode Selection knob behind the module clockwise to switch between different application scenarios.

- USER 0 Flat Standard Mode
- USER 1 Wedding Mode
- USER 2 Outdoor Long-Distance Projection Mode
- USER 3 Conference Mode
- USER 4 Party Mode
- USER 5 Singing Mode
- USER 6/USER 7 Blank (User-Defined Mode)

■ 8. Application Scenarios



Mobile
Performances



Meeting
Rooms



Multi-Function
Halls



Banquet
Halls



Villas

The CM1608 digital mixing console is suitable for a variety of places such as mobile performances, meeting rooms, multi-function halls, banquet halls, and villas.



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