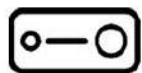


Conference Digital Mixer Amplifier for Small and Medium- Sized Conference Rooms



Combined



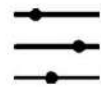
Digital Amplifier



7-Band EQ



Anti-howling



ECHO



MP3 & BT



Remote Control

■ 1. Solution Overview

Why do small and medium-sized conference rooms need a conference digital mixer amplifier?



Drawbacks of Traditional Amplifiers

- The exterior styling looks old, the panel knobs are numerous, the human-computer interaction is rather monotonous, and it is easy to be misused.
- The function has a certain backward, such as the lack of Bluetooth playback, insufficient MP3 playback formats, no support for TF card, no 7-band EQ for the player, and no anti-whistling suppression for the microphone.
- The RS485 remote control is not supported, and the control platform cannot be accessed.
- The sensitivity of the microphone input port is 5mV, which is not compatible with the input level of the wireless microphone, and even through the attenuator, it is easy to generate low-frequency hum caused by power frequency interference.
- The efficiency of the traditional analog amplifier is only 30%~50%, which is not efficient and easy to get hot; at the same power, the weight and volume of the analog amplifier is much larger than that of the digital amplifier.



Promotion of DK69 Series Conference Digital Mixer Amplifier

- The DK69 series is a series of sound reinforcement amplifiers that integrates EQ, pre-amplifier and power amplifier functions.
- With new style exterior design, all series are digital amplifiers, using 2.4" color LCD screen to greatly enhance the level.
- Work with a rotary encoder (shuttle) for human-computer interaction, while using the independent volume setting button of each sound source for convenient volume control, and 7-band digital equalization adjustment.
- With advanced technology and design to improve the cost performance of the products, so as to strengthen the competitiveness of the product line.

2. Solution Requirements

- The sound reinforcement system of small and medium-sized conference rooms mainly includes the sound source and its surrounding acoustic environment, the microphone for converting the sound to an electrical signal, the equipment for amplifying and processing the signal, transmission lines, the speaker for converting the signal to an acoustic signal, and the acoustic environment of the audience area.
- The sound reinforcement system is one of the key points in the design of the whole conference room. The main role of the audio reinforcement system is to clearly transmit and restore the audio signal of the conference speech through centralized sound reinforcement, so as to ensure sufficient sound field intensity, uniform sound field distribution, and adequate speech intelligibility in the venue, so that all participants can hear the speech content clearly while achieving high-fidelity restoration of the sound source signal.



Project Requirements

- The sound equipment should provide enough access ports for microphones and background music to meet the needs of sound reinforcement for holding multimedia conferences, small reports, speeches and other activities.
- The sound system equipment should provide a variety of options such as volume adjustment, timbre beautification, effect enhancement, and room reverberation adjustment, so as to facilitate staff to cooperate with various types of conference activities for debugging.
- The number and types of speakers needs to be arranged in a reasonable manner to meet the requirements of the conference for high speech intelligibility and reduced echo, and the playback of the audio file requires soft sound quality and uniform sound field coverage.

3. Highlights

DSP Audio Processing

- With a reverb effect processing and a 7-band digital equalization adjustment for the microphone input, which can be preset with a variety of effects, and is equipped with a **microphone anti-whistling function**.



Remote Control

- With RS485 remote control to control all volumes and EQ.



Sensitivity Level Selection

- With 5mV or 250mV (compatible with the conference condenser microphone) input sensitivity optional.

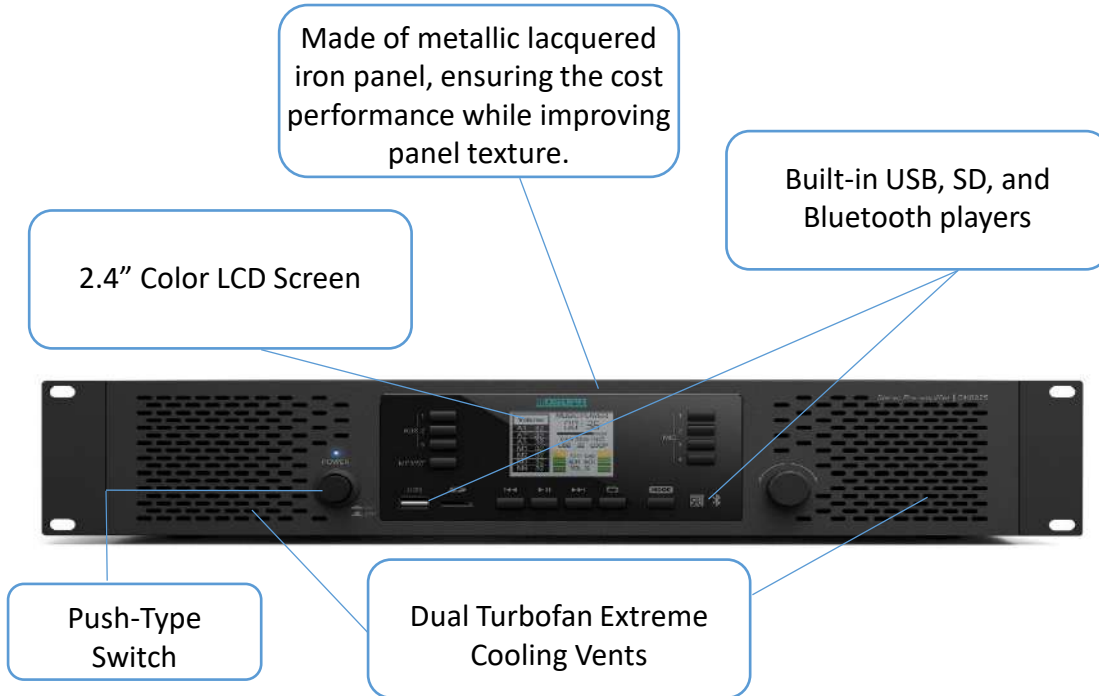


6-Level Mixing Depth

- With microphone sound priority over AUX and MP3, which will be reduced to 100%, 70%, 50%, 30%, 10% and 0% respectively.



4. Conference Digital Mixer Amplifier Host DK69 Series -- Functions

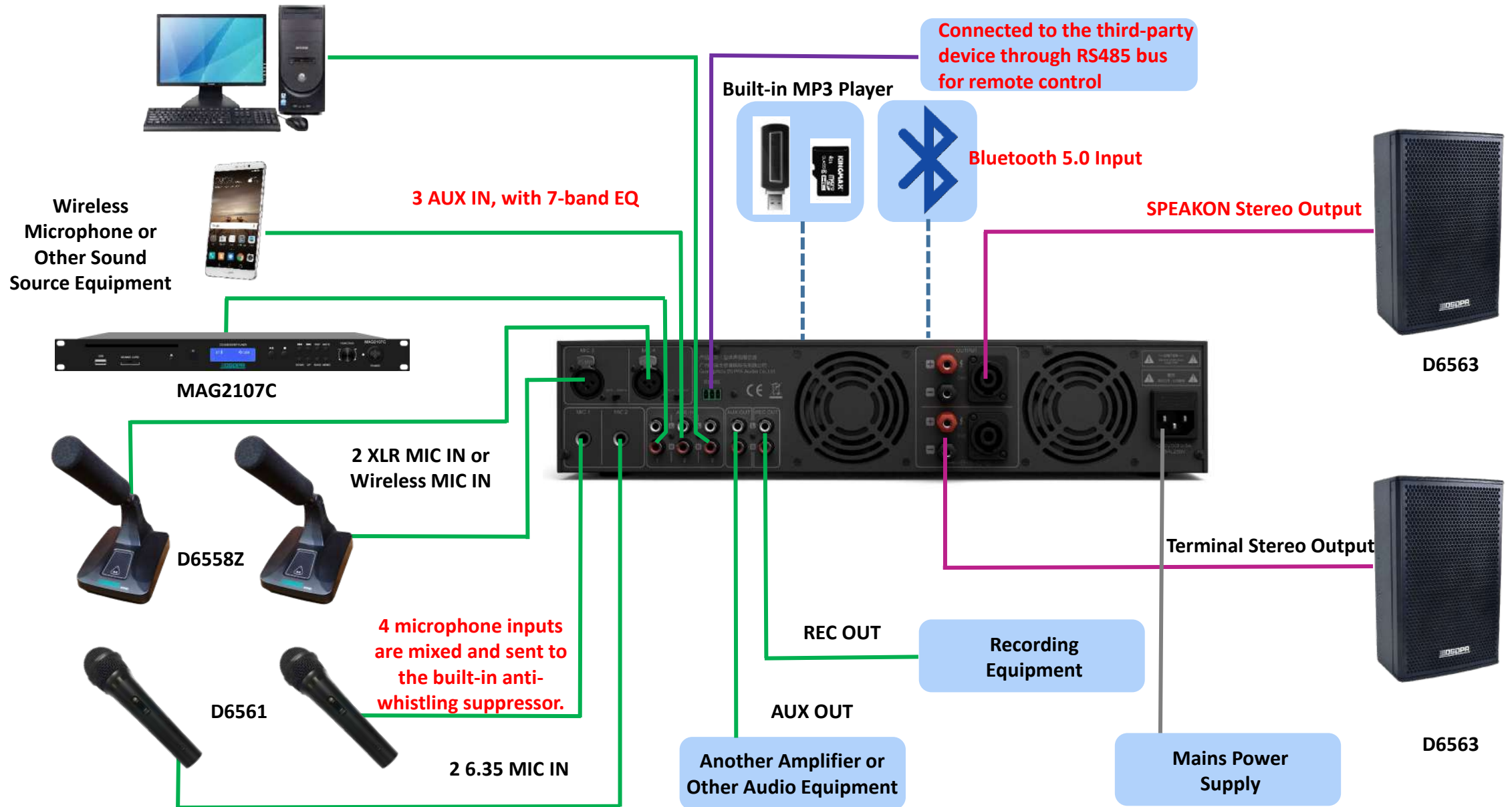


Features

- 2×150W/8Ω, 2×250W/8Ω, 2×350W/8Ω, 2×500W/8Ω, 2×650W/8Ω, the full range of digital amplifiers supports 4Ω load.
- Work with a rotary encoder (shuttle) for the main operation. Each sound source has an independent volume button to facilitate volume operation, with simple interface to prevent misoperation.
- With a built-in player, support visual display of songs, and support previous song, next song, pause, loop play, etc.
- With 2 microphone balanced inputs on the rear panel, 2 6.35mm microphone inputs, with separate volume adjustment, with reverb effect processing and 7-band digital equalization adjustment for the microphone input, and microphone anti-whistling function.
- With 3 audio lines, independent volume adjustment, 7-band digital equalization adjustment and multiple preset effects.
- With 1 audio line (stereo) output.

Model	DK6915	DK6925	DK6935	DK6950	DK6965
Power	2×150W/8Ω	2×250W/8Ω	2×350W/8Ω	2×500W/8Ω	2×650W/8Ω

5. Application Diagram of Conference Digital Mixer Amplifier

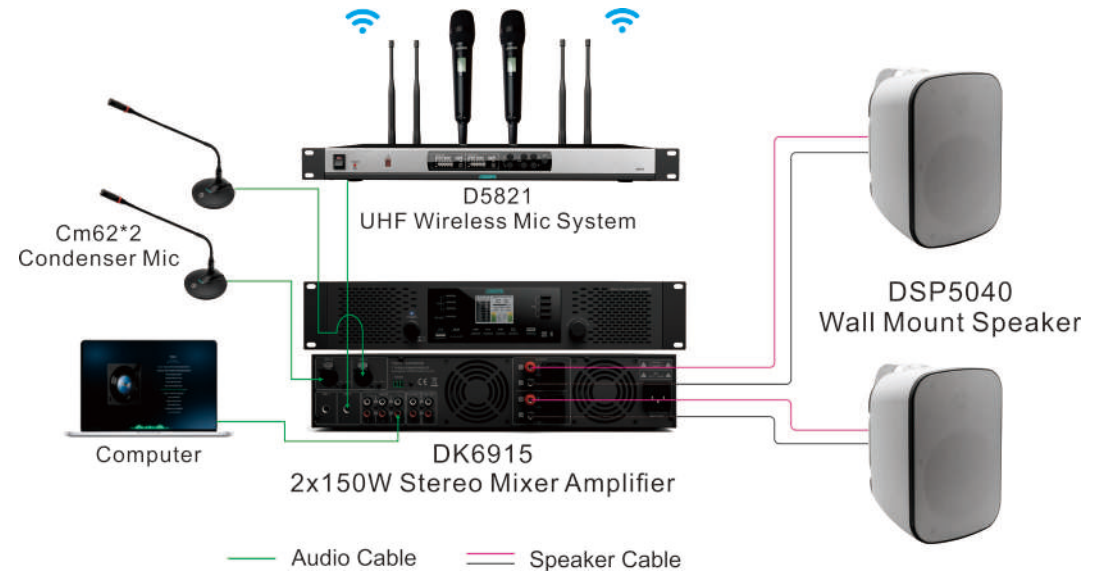


6. Cost-Effective Audio Conference System -- Solution 1

50m² ---- Configuration Description

- The whole system is easy to operate and affordable with good sound reinforcement effect.
- Using 1 DK6915 2-channel stereo output digital amplifier, with 5mV or 250mV (compatible with the conference condenser microphone and wireless handheld microphone) input sensitivity optional, allowing high sensitivity matching and high-fidelity restoration of the sound source signal.
- When the computer audio is input, enable the microphone sound priority function to weaken the background music in 6 levels.
- 2 DSP5040 wall-mounted speakers are installed on both sides of the conference room for close-range sound reinforcement, with appropriate loudness, good diffusion, uniform sound field distribution.
- Suitable for 50 square meters of small meeting rooms, small auditoriums and other sound reinforcement places.

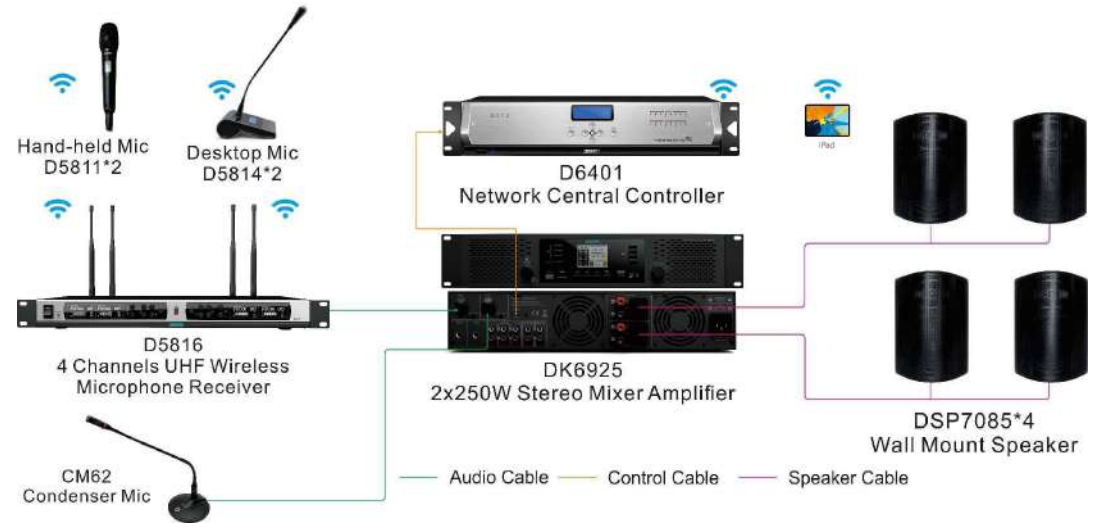
No.	Model	Product Name	Quantity
1	D5821	UHF Wireless MIC System	1 PC
2	CM62	Condenser MIC	2 PCS
3	DK6915	2x150W Stereo Mixer Amplifier	1 PC
4	DSP5040	Wall Mount Speaker	2 PCS



6. Cost-Effective Audio Conference System -- Solution 2

100m² ---- Configuration Description

- Using 1 DK6925 2-channel stereo output digital amplifier, with 7-band EQ processing, ensuring the true reproduction of the sound signal, so that participants can perceive the real existence of the sound source, achieving high-fidelity sound reinforcement.
- Work with the network central control host, using RS485 remote control to control all volumes and equalization adjustment.
- 4 DSP7085 are installed on both sides of the conference room for close-range sound reinforcement, with appropriate loudness, good diffusion and uniform sound field distribution.
- It is simple and practical to use, and can meet the basic needs of sound reinforcement. It is suitable for 100 square meters of meeting rooms, conference halls, small auditoriums and other sound reinforcement places.

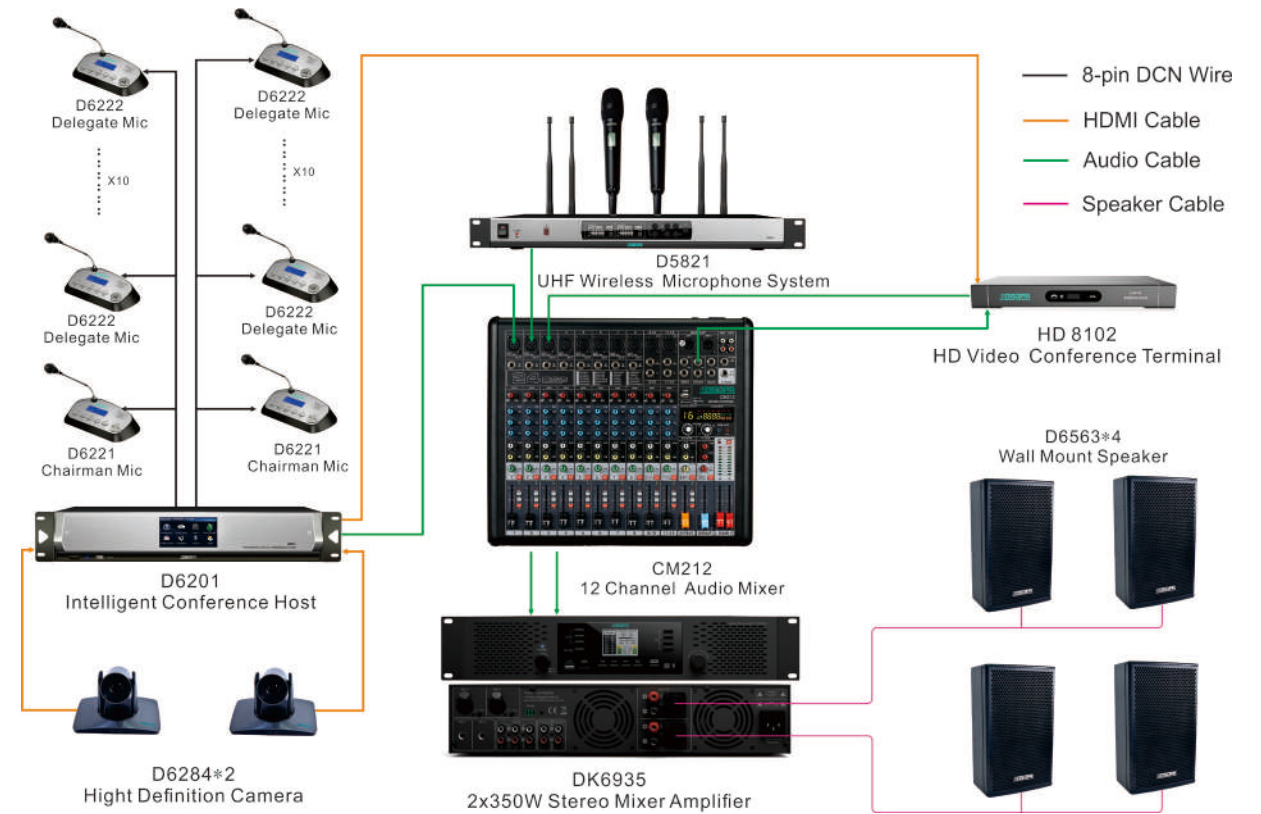


No.	Model	Product Name	Quantity
1	D5811	Hand-held MIC	2 PCS
2	D5841	Desktop MIC	2 PCS
3	D5816	4-Channel UHF Wireless Microphone Receiver	1 PC
4	DK6925	2×250W Stereo Mixer Amplifier	1 PC
5	DSP7085	Wall Mount Speaker	4 PCS

6. Cost-Effective Audio Conference System -- Solution 3

150m² ---- Configuration List

No.	Model	Product Name	Quantity
1	D5821	UHF Wireless MIC System	1 PC
2	D6201	Intelligent Conference Host	2 PCS
3	D6221	Chairman MIC	2 PCS
4	D6222	Delegate MIC	20 PCS
5	CM212	12-Channel Audio Mixer	1 PC
6	DK6935	2×350W Stereo Mixer Amplifier	1 PC
7	D6563	Wall Mount Speaker	4 PCS
8	D6284	High-Definition Camera	2 PCS
9	HD 8102HD	Video Conference Terminal	1 PC



6. Cost-Effective Audio Conference System -- Solution 3



150m² ---- Configuration Description

- When the audio input of the conference room needs to be larger than the audio input port of the amplifier, or the audio output needs to be separated (e.g., video conferencing), it can be expanded to connect with a mixing console to better meet the functional requirements of the conference room.
- The conference condenser microphones are connected hand in hand, using the **built-in 7-band EQ processing effect** and **microphone anti-whistling function** of the amplifier to ensure the true restoration of the sound signal, without additional audio processor.
- Provide professionals with a more refined, high-standard meeting experience, to meet the diverse needs of meeting rooms; it also has excellent performance in the field of professional conferences.
- Suitable for 150 square meters of professional conference rooms and other high-level sound reinforcement places.



Creating the Best, Sounding the World!

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