Professional Sound System for Medium-sized Conference Room

System Overview

Conference Room Sound Reinforcement Instructions

- The conference room sound reinforcement system is a precise scientific system, with stable work, high reliability and other performance. Usually these problems can be troubling, for example, it is easy to howl when the pickup distance is close or far during the meeting; the microphone rod occupies a large space; and the pickup range is small.

- When setting up the venue, it is impossible for the spokesperson to test the sound on site. Therefore, in order to achieve a bright and clear sound effect (loudness should be just proper but not howling) during live sound reinforcement, there is a certain amount of knowledge that should learn in the selection and placement of microphones.

- Because different types of microphones have different effects on different sound sources, especially the selection of microphones should be an in-depth understanding of the technical characteristics of the microphone, performance advantages and disadvantages and applicable occasions.

- In addition to considering the electroacoustic indicators such as the sensitivity of the microphone, the matching of the output impedance and the input impedance of the mixing console, the directional characteristics, frequency response characteristics and the shape of the microphone should also be taken into account in the conference room.

- In terms of directivity, the supercardioid model is suitable for fairly long-distance pickup, the cardioid model is suitable for most situations, and the non-directional model is never suitable for speech pickup and is prone to causing echo and howling.

- For this reason, we introduced a wide bandwidth condenser cardioid microphone, microphone using a short microphone pole, high sensitivity design, simple and atmospheric appearance.

Design Objective

- In the design of conference application scheme, it is necessary to fully consider the sound reinforcement requirements of music, conference and report and speech, and is equipped with a set of digital conference systems with simple and advanced processing technical control, high level and taking into account the transmission of language, music and video. The entire system guarantees an even distribution of sound pressure in the sound field in the conference room and provides high-quality music as well as speech intelligibility.

- Simple installation, convenient construction, safe and reliable, strong anti-interference ability, clear and pleasant voice of the whole conference, no distortion, no sound feedback howling.

Scheme Design_20 People, 100㎡ Conference Room

System Configuration Instruction

- Pickup Part: For the meeting, a new type of short microphone is designed to use, and the dual-microphone conference terminal is set as the chairman microphone unit to ensure a bright and clear long-distance pickup. Not only is it a device, but more importantly, it relies on the Conference System that is connected by hand-in-hand mode, which is extensible and powerful, easy to manage, and ideal for multi-person meetings. Through the host function settings, you can set the number of speakers, signal in and out of the way, conference services, video tracking and other functions, with a high degree of flexibility. For reports, speeches, we are also equipped with wireless handheld microphones, making the mobile explanation more convenient, and the combination of a variety of microphones ensures the smooth progress of the meeting.

- Regulation and Control Part: The 8-channel mixng console and digital audio processor are selected to be responsible for the regulation of the entire system. The analog mixer is simple to control and has sufficient functions. It has a variety of audio signal input and output interfaces, which can output multi-channel audio signals to meet the connection of various audio source inputs and outputs. The digital audio processor and feedback suppressor are built with rich peripheral modules, which can carry out various processing operations on the whole system, while ensuring the signal-to-noise ratio and reducing the failure rate. It not only provides stable performance and diversified modes, but also supports hot-plug function. The failure of one channel will not cause other channels to be unavailable, enhancing the stability of the entire system.

- Sound Reinforcement Reduction System: It adopts an 8-inch inverted phase type low-frequency radiation two-way full-range system, with two speakers, which not only have sufficient sound pressure level, but are also equipped with a subwoofer to compensate for lower frequency limits, enhancing the dynamic range of the whole field. That is, it ensures the clarity of language and music, and also meets the national standards for the average sound pressure level and sound field unevenness.

- Camera Tracking System: It adopts full HD camera D6284, with the camera tracking of the central control host for image tracking close-up.

- Matrix System: 8 channel hybrid matrix system, one HDMI input card (4-channel), one HDMI output card (4-channel), 8-way card host D6108,HDMI input card 1 (4-way) 1 (4) HDMI output card, It can meet the needs of camera tracking switching, video playback, work report presentation, etc. The signal processing part is composed of HDMI matrix central signal management system to achieve powerful signal switching, scheduling and other work.

- Display System: The display system utilizes an intelligent conference flat panel that can be wall-mounted to save meeting space. Its integrated design boasts a simple and sleek appearance, while imbuing a sense of science and technology that can effectively enhance the image of the conference room for enterprises.
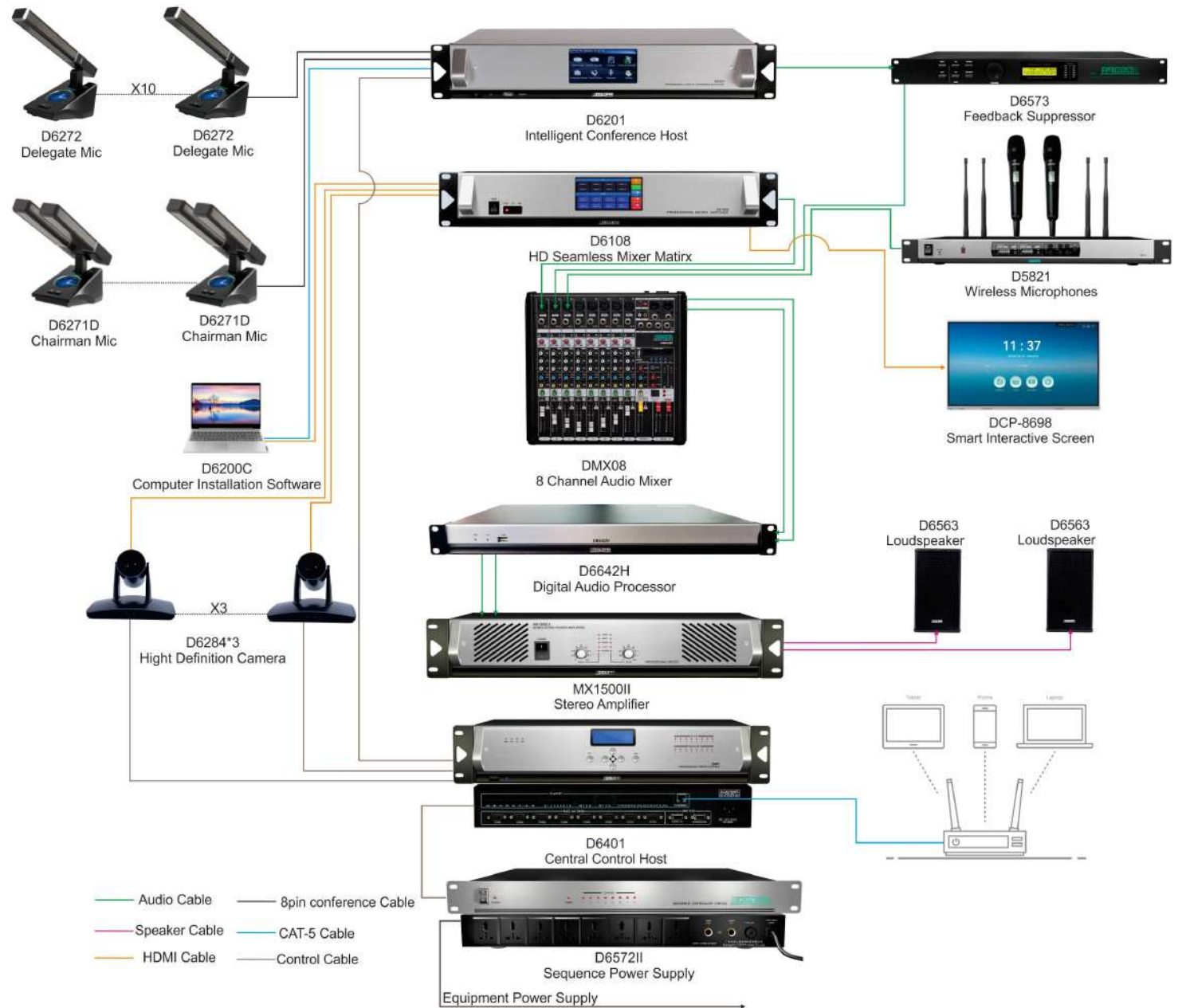
Conference Room Layout

System Advantages

- The system can meet the national standards for the average sound pressure level and unevenness of the sound field.

- With intelligent central control system and camera tracking, it can truly reflect the standard of intelligent conference rooms.

- It not only satisfies the multi-functional needs in audio, but also displays various requirements of conference in video, truly realizing the multi-functional integration of audio and video.

Connection Diagram

No.	Model	Product Name	Quantity
Audio Source Part			
1	D6201	Intelligent Conference Host	1 PC
2	D6271D	Chairman Microphone	2 PCS
3	D6272	Delegate Microphone	10 PCS
4	D5821	Wireless Handheld Microphone	1 SET
Regulation and Control Part			
1	DMX08	Analog Mixing Console	1 PC
2	D6642H	Audio Processor	1 PC
3	D6573	Feedback Suppressor	1 PC
Sound Reinforcement System			
1	MX1500II	Professional Amplifiers	1 PC
2	D6563	Professional Speakers	2 PCS
Camera Tracking System			
1	D6401	Control Central Host	1 PC
2	D6284	Camera	3 PCS
Matrix System			
1	D6108	Matrix Switch Host	1 PC
Display System			
1	DCP-8698	Intelligent Interactive Flat Panel	1 PC
2	DCP-86WCS1	Wireless Screen Mirroring	1 PC
Supporting Materials			
1	D6572II	Power Sequence Controller	1 PC
2	D3A	Speakers Bracket	2 SETS
3	D6263	Microphone Cable	1 PC
4	D6267	Microphone Ground Socket	1 PC

■ New-style Microphone-D6271 Series

Modern Appearance

● The appearance of the D6271 microphone adopts a metal oxide panel, which can switch the time display, and the simple and tough appearance design shows a retro solemn style.

Dual Backup Function

● D6275 has microphone output dual backup function, one hand-in-hand conference system channel, one phantom 48V power supply microphone channel, these two channels work independently to ensure high reliability of system operation.

Double Microphone Head

● With the design of two short microphone rods, D6271D increased sensitivity, and has a longer pickup distance, which will not have any effect on the sound quality over long distances.

■ Function Highlights

1 Switch interface theme (Support customized interface)

● The interface of D6271-D6278 conference units with a display screen can be switched among three themes: Blue, Platinum, Chinese Red. Touch the clock interface to enter the main interface, click the theme button " 👕 " for switching.

2 Voting Function

● Touch the " ✉ "voting key on the screen, touch the corresponding button to vote, the icon above the selected item will change color, and the result of this vote will be displayed when the voting is finished.

Product Details-D6271 Series

Newly Designed Case

Full matel rectangular

2.1" Touch Screen Control

Dual Backup

Two Mics

Voice Control On/Off Function

Voting

Chairman Unit

Built-in Magnetic Loudspeaker

Self-Test Diagnosis

Model	D6271
Structure Type	Desktop
Static power consumption	<1W
Max. power consumption	<2W
SNR	>80dB(A-weighted)
Crosstalk Attenuation	>80dB
Harmonic distortion	<0.3%
Headphone Output	9dBu, 8-32Ω, 3.5mm
Working Power	Power by the host with DC24V
Unit Interface	8-pin DINdedicated interface
Microphone Type	Electret cardioid condenser
Sensitivity	-45dBV/pa
Input impedance	2kΩ
Equivalent Noise	20dB (SPL)
Max SPL	125dB (THD<3%)

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