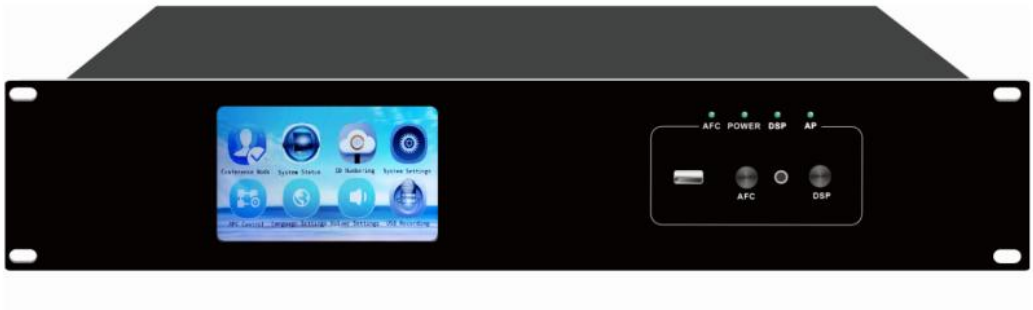
adertech

CSD-R6 series

Professional audio conference system





User Manual

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High-end series network full digital conference system

Overview

The products use the company's original digital processing and transmission technology with independent intellectual property rights, revolutionary and comprehensively introduce all-digital technology and comprehensive network technology into the conference system, fully integrating advanced digital technology, network technology and audio technology. Not only that, the network's all-digital conference system, the conference sign-in system, and the central control system are seamlessly connected, taking the lead in the industry to provide a complete and efficient comprehensive solution for modern conference systems.

The new network digital conference system is a standardized module product based on IEEE standard Ethernet communication. Help users achieve rapid deployment and remote management of multiple systems. From small conference rooms to large conference centers, it can meet the application needs of users in different occasions. The network digital conference system adopts networked collaborative management. The system host can set an IP address and adopts advanced TCP/IP network connection method to realize system platform and host control and management, and realize distributed application and management; the network digital conference system host and The conference unit is connected to the microphone unit hand in hand, and the microphone units are connected in series from end to end. All microphones use POE power supply. Microphones can be connected in series or connected to POE power supply exchange to achieve multiple connection management methods.

The conference units in the system adopt "ring-shaped hand-in-hand" connection technology, which is simple to install and realizes the dual backup function of connections. The system supports 48 kHz audio sampling frequency, and the 64-channel frequency response can reach 80 Hz ~ 16 kHz.

Important safety instructions

- These precautions must be read.
- These precautions must be retained.
- All warnings must be heeded.
- All precautions must be followed.
- Do not use this device near water.
- Only use a dry cloth to wipe the device.
- Do not block any ventilation openings. Follow the manufacturer's instructions for installation.
- Do not install this equipment near any heat source, such as radiators, thermostats, stoves, or other devices that may generate heat (including power amplifiers).
- Do not defeat the safety features of polarized or grounding type plugs. A grounding-type plug has two blades and a third grounding prong. The third pin is for security purposes.
- Protect the power cord from being stepped on or pinched, especially at plugs, convenience sockets and where the power cord exits.
- Only use connectors/accessories specified by the manufacturer.
- Use only the cart, stand, tripod, bracket or support table specified by the manufacturer or sold with the equipment. If a trolley is used, be careful when moving the trolley with the equipment in it to avoid the equipment tipping over.

- In lightning weather or when not in use for a long time, the device should be unplugged. It is recommended to power on for 3 hours regularly every week.
- All repairs should be performed by qualified maintenance personnel. Servicing is required when the apparatus has been damaged in any way: the power-supply cord or plug is damaged, liquid has been spilled or foreign objects have entered the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not expose this device to possible dripping or splashing water. Do not place containers filled with liquids (such as vases, etc.) on this device.
- The device with battery needs to be charged if it has not been used for more than two months.
- Equipment complying with Class I standards should be connected to a mains socket-outlet with a protective earth device.
- To reduce the risk of fire or electric shock, do not expose this device to rain or moisture.
- Do not attempt to modify this product. Doing so could result in personal injury and/or product failure.

This symbol indicates that the instructions included with this equipment contain important operating and maintenance instructions.

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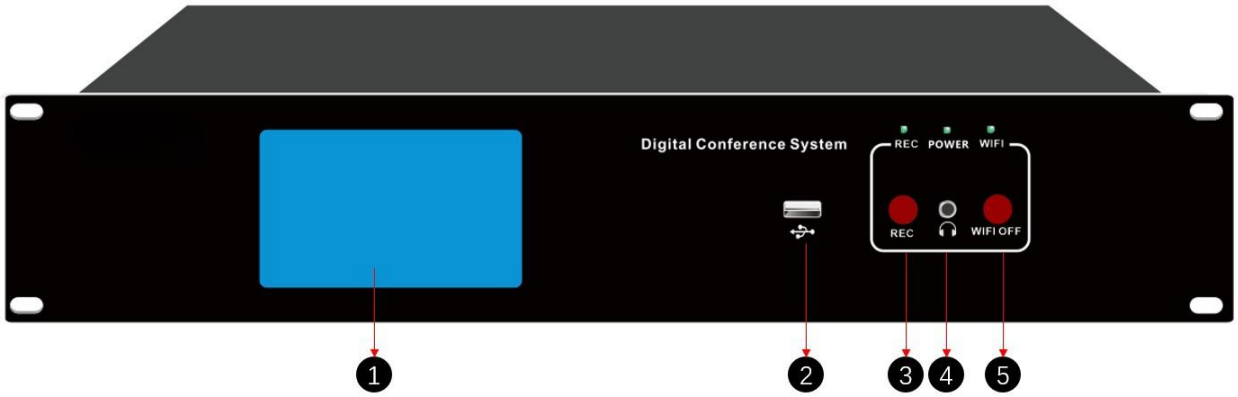
Warning

The voltage in this equipment may be fatal. There are no user-serviceable parts inside the device. All repairs should be performed by qualified service personnel. If the working voltage set by the factory is changed, the safety certificate no longer applies.

If the accessories inside the equipment are not original parts, the warranty for the whole machine will not be covered.

Front panel port description of host machine

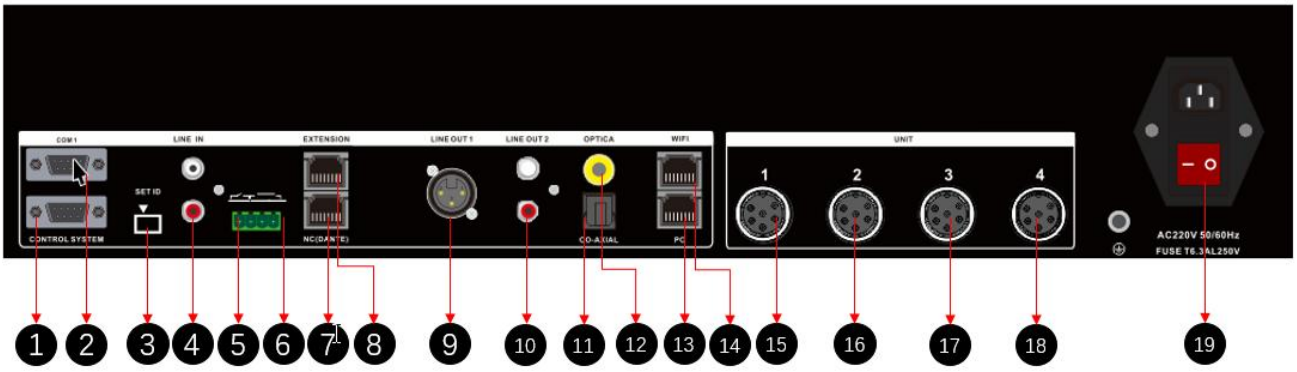
models CSD-R6-MCU /CSD-R6V-MCU front panel



Description:

1. 4.3-inch full-color LCD display, used to display the status of all devices in the system.
2. USB port, used to insert U disk, maximum capacity 16G, format should be fat32, used for recording and storing files.
3. Recording start and stop buttons.
4. 3.5mm headphone jack. Use three headphone heads to monitor all microphone audio outputs.
5. Wireless microphone power-off button. Press and hold for 3 seconds to turn off the power of all wireless microphones.

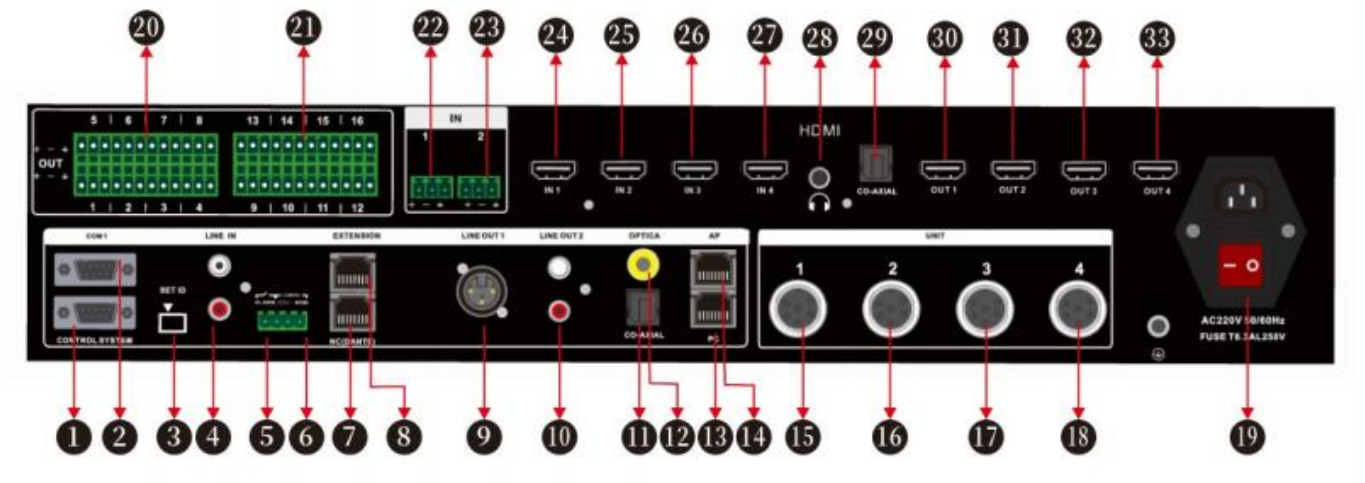
CSD-R6-MCU rear panel



Description:

1. 1. Camera RS-232 communication interface
2. 2. Connect to the RS-232 communication interface of external equipment.
3. 3. Use the dial switch to set the microphone ID number.
4. 4. Line audio unbalanced lotus input
5. 5. Short circuit triggers fire alarm interface
6. 6. Camera 485 communication interface
7. 7. Optional DANTE module to connect external devices with DANTE protocol for audio interaction
8. 8. EXTENSION, connect to conference system expansion equipment
9. 9. Line audio XLR balanced output
10. 10. Line audio unbalanced lotus output
11. 11. Optical fiber audio output, extending the microphone sound and transmitting it to optical fiber equipment
12. 12. Coaxial audio output
13. 13. PC network port, the network port connected to the computer host
14. 14. WIFI network port, used to connect to wireless AP and manage wireless microphones
15. 15, 16, 17, 18, DELEGATES 1~4—used to connect the conference speaking unit
16. 19. Power switch and power input socket, support 110~250V input
17. 20, 21, and 16 multi-function output Phoenix terminals, which can be flexibly set to partition output mode, simultaneous transmission output mode, and role separation output mode (D model does not have this function)
18. 23, 24, second line audio Phoenix terminal input (D model does not have this function)
19. 2*50W power amplifier interface, which can be connected to 50W speakers for sound amplification (D and M models do not have this function)

CSD-R6V-MCU rear panel



Description:

1. Camera RS-232 communication interface
2. Interface with external devices via RS-232 communication interface.
3. Set the microphone ID number using the dip switch.
4. Line audio unbalanced RCA input
5. Short-circuit triggers fire alarm interface
6. Camera 485 communication interface
7. Equip with a DANTE module to enable audio interaction with external devices that support the DANTE protocol
8. EXTENSION, connecting the conference system extension equipment
9. Balanced output of line audio XLR socket
10. Line audio unbalanced phono output
11. Optical fiber audio output, extending the transmission of microphone sound to optical fiber devices
12. Coaxial audio output
13. PC network port, the network port for connecting to the computer mainframe
14. WIFI port, used for connecting to wireless APs and managing wireless microphones
15. 15, 16, 17, 18, DELEGATES1~4 - used for connecting conference speaking units
16. 19. Power switch and power input socket, supporting 110~250V input
17. 20, 21, 16-channel multifunctional output Phoenix terminals, which can be flexibly set to partition output mode, simultaneous interpreting output mode, and role separation output mode (not available for Model D) 22, 23, two-channel line audio Phoenix terminal inputs (not available for Model D)
18. 24, 25, 26, 27, video connection camera input frames
19. 28. Headphone monitoring interface
20. 29. Fiber optic interface, outputting audio and video
21. 30, 31, 32, 33, video output frames

The main function

1. Discussion
   - Limit the number of speakers (maximum 8 wired microphones, maximum 6 wireless microphones and speaking time limit function
   - Four ways of speaking
     - **First-in-first-out mode（FIFO）**： When the total number of open microphones is less than N, the representative units directly open the microphones; when the total number of open microphones reaches N and not all are chairman units, the representative units open the microphones in a first-in-first-out manner among themselves.
     - **Normal mode（NORMAL）**： When the number of microphones on the unit unit reaches N, when the microphone on the representative unit is turned on again, it will enter the waiting state, and the maximum number of waiting units is also N. The representative machine can exit the waiting state by pressing the microphone button again in the waiting state. When the microphone of a certain unit is turned off, the earliest microphone among all the currently waiting microphones will be automatically turned on.
     - Voice”(voice control) mode：The sensitivity is continuously adjustable, the automatic shut-off time is adjustable, and the built-in "Flash-on" technology enables faster sound activation.
     - Application mode（APPLY）：The chairman unit with control function in the system approves or denies the representative's speaking application
   - Gain and equalization can be adjusted independently (5 levels), and different volumes and frequency responses can be adjusted according to the voice Features：s of different speakers until the perfect effect is achieved
2. Supports both wired and wireless conferences.
3. Adopt adaptive interference avoidance technology to achieve stronger anti-interference ability, with 24 signals available.
4. Original digital ring network technology audio clock synchronous transmission technology, audio delay less than 5ms, uncompressed audio transmission with a sampling rate of 48K.
5. Built-in high-performance DSP processor with audio matrix, howling suppression, EQ, volume, delay and other adjustment functions.
6. Supports a single conference host to realize independent partition control and audio merging of 16 conference rooms.
7. The audio input interface includes 1 RCA and 2 Phoenix terminals. The audio output interface includes 1 RCA, 1 XLR, and 16 Phoenix terminals. Each output channel can adjust parameters such as EQ and volume.
8. 16-channel role separation output mode, wired or wireless units can independently output sound, and supports independent recording of each unit through recording software, and supports docking of voice transcription devices to achieve role separation.
9. The 16-channel simultaneous transmission output mode can independently output the sound of the interpreter machine to provide external equipment for use by recording or monitoring equipment.
10. 16-channel intelligent partition output mode, built-in nx16 audio matrix processor, realizes 16-channel group output function, and outputs to any channel according to any volume ratio.
11. The conference host adopts TCP/IP network protocol and supports C/S and B/S architecture at the same time, which can be controlled by PC software or browser.
12. Can control audio matrix parameters (including EQ, volume, delay, microphone sensitivity, etc.), 16-channel output mode switching, switch microphone synchronization, and control role separation host.
13. The system supports a maximum of 4096 wired conference units and 300 wireless conference units. The maximum number of speeches in the system is 8 wired microphones and 6 wireless microphones.
14. The optional ring-shaped hand-in-hand function ensures that the meeting can continue normally when one of the network cables is disconnected or there is a problem with the unit.

15. Support RS232 central control to realize microphone switch, priority, volume, shutdown and other controls.
16. The computer software can check the battery power, WiFi signal and other information status of the scanning wireless unit; it supports one-click shutdown of all wireless units and a single wireless unit.
17. Supports simultaneous interpretation function, the system can transmit up to 63+1 wired simultaneous interpretations at the same time.
18. It has a fire alarm linkage triggering interface to provide fire alarm information and remind the venue personnel to evacuate immediately to ensure the safety of the participants.
19. Supports PELCO-D and VISCA camera control protocols, and can cooperate with the high-definition camera tracking host to achieve automatic camera tracking.
20. Four microphone management modes: FIFO (first in, first out), NORMAL (normal mode), VOICE (voice control mode), APPLY (application mode).
21. The system has functions such as initiating meeting sign-in, voting, election, rating, satisfaction, customization, etc.
22. It has a 4.3-inch full-color touch screen, which can realize parameter setting or viewing and any touch operation.
23. Equipped with USB recording function.
24. Supports 10-segment EQ adjustment function. Both the 16 multi-function output channels and 2 LINEOUT output channels have 10-segment EQ adjustment function.
25. The system unit has a hot-swappable function and will automatically restore its original function when plugged in again.
26. Supports docking with the voice transcription server to realize the voice transcription function.
27. Optional dual-machine true backup function. When one host is powered off and the host fails, it can automatically switch to slave machine operation to achieve dual backup functions.
28. DANTE protocol audio output module.
29. It has 2*50W power amplifier output function and can be directly used for sound amplification.
30. It has independent headphone monitoring function.

Technical Parameters

1. Microphone capacity: wired microphone ≤5300; wireless microphone ≤300
2. Simultaneous interpretation channels: 63+1 channels
3. Frequency response: 20Hz~20KHz
4. Signal-to-noise ratio: >80dB(A)
5. Dynamic range: >80dB
6. Total harmonic distortion: <0.05%

7. Main power supply: 100-240VAC
8. EXTENSION port: Connect to conference system expansion equipment
9. DANTE port: connects to external devices of the DANTE protocol
10. WIFI network port: connect to wireless AP
11. PC network port: connect to computer
12. Static power consumption: 30W
13. Output power consumption: 350W
14. Wired microphone connection method: special cable
15. Touch screen control: 4.3-inch full-color touch screen

System environmental conditions

- Temperature range
  - Transport temperature：-40°C ~ +70°C
  - Operating temperature：0°C ~ +45°C

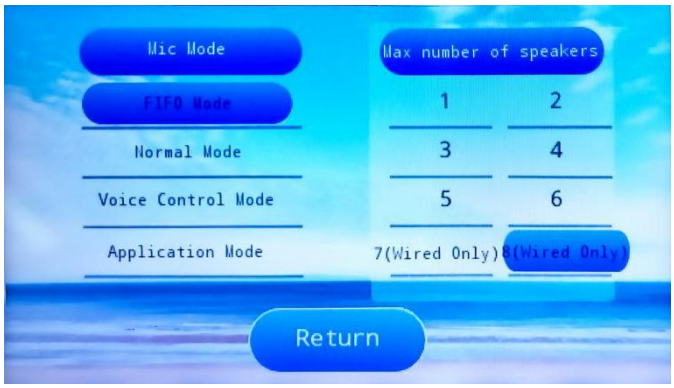
List of host functions

Host Picture	Model	Discussion	Voting & Camera tracking	TFT Touch screem	64-CH translation	N+16 audio group	Wired & Wireless	Dante	HDMI video swtich	USB recording	Built-in amplifier
	CSD-R6-MCU	●	●	●	●	○	●	○	○	●	○
	CSD-R6V-MCU	●	●	●	●	●	●	●	●	●	○

Conference host operating instructions

4.1 Conference management function





Click the conference mode from the main interface, and then enter the microphone management mode. There are four microphone modes in total. You can switch to one of them according to the requirements of the venue. Generally, the number of "first in, first out mode" settings is the current maximum number of microphones allowed to be opened N (wired = 1/2/4/8; wireless = 1/2/ 4/6), without microphone, the maximum number is 6.

The microphone mode will take effect on both wired and wireless microphones at the same time. For example, if the wired microphone mode selects the first-in-first-out mode, the wireless microphone mode will also select the first-in-first-out mode.

4.2 First in first out mode (FIFO)

①FIFO Representative machine opening microphone management

First in, first out: When the total number of open microphones is less than N, the representative machine opens the microphone directly; when the total number of open microphones reaches N and not all are chairman machines, the representative machines open the microphone first in first out among each other.

②FIFO Chairman machine open microphone management

Preemption mechanism: The chairman machine can seize the right to open the microphone of the representative machine (when the total number of open microphones reaches N and there is a representative machine, the current chairman machine microphone will be opened, the earliest representative machine with open microphone will be squeezed out of the open microphone queue, and the representative machine will be closed. microphone and turn on the current chairman's microphone);

Reminder when the open microphone is full: There is no first-in-first-out mechanism between chairman machines. When the total number of open microphones reaches N and all open microphones are chairman machines, when a new chairman machine is opened, the interface will display "Microphone is full";

Priority: Press the chairman machine priority button to activate the chairman priority

function, which will immediately turn off the microphone-on status of all representative machines. If the microphone of the chairman unit has not been turned on before, the microphone of the chairman unit will be turned on (when the number of currently open microphones is full and all are chairman units, the microphone of the chairman unit will not be turned on).

4.3 Normal mode （NORMAL)

①NORMAL Representative machine opening microphone management

Waiting mechanism: When the number of microphones on the unit unit reaches N, it will enter the waiting state when the microphone on the representative unit is turned on again. The maximum number of waiting units is also N. The representative machine can exit the waiting state by pressing the microphone button again in the waiting state. When the microphone of a certain unit is turned off, the earliest microphone among all the currently waiting microphones will be turned on automatically.

②NORMAL Chairman machine open microphone management

Preemption mechanism: When the maximum number of microphones allowed to be opened N is reached, when the chairman's microphone is opened, the representative machine will be squeezed out of the microphone opening queue (that is, the microphone of the representative machine that opens the microphone earliest among the representative machines that currently have the microphone opened will be turned off, and its own microphone will be opened at the same time. Microphone is full); prompt when the open microphone is full: the chairman unit has no waiting mechanism. When the current maximum number of open microphones is full and all open microphones are chairman units, if you press another chairman unit, "Microphone is full" will be displayed;

Priority: Press the chairman machine priority key to activate the chairman priority function, and turn off the microphone on and waiting status of all representative machines. If the microphone of the chairman unit has not been turned on before, the microphone of the chairman unit will be turned on (when the number of currently open microphones is full and all are chairman units, the microphone of the chairman unit will not be turned on).

4.4 Voice control mode （VOICE)

①VOICE Representative machine opening microphone management

Waiting mechanism: When the number of microphones turned on by the representative unit reaches N, it will enter the waiting state when the microphone of the representative unit is turned on again. The maximum number of waiting units is also N. In the waiting state, press the microphone button again to exit the waiting state. When a certain representative's microphone is turned off, the earliest microphone among all currently waiting microphones will be automatically turned on.

②VOICE Chairman machine open microphone management

Voice control mechanism: The microphone of the chairman machine can automatically detect the current speech, and speaking to the chairman machine will automatically turn on its microphone.

Preemption mechanism: When the number of open microphones reaches the maximum number of open microphones N, the chairman machine opens the microphone and squeezes the representative machine out of the open microphone queue (that is, turns off the microphone of the earliest representative machine among the currently open microphones);

Open microphone is full prompt: The chairman unit has no waiting mechanism. When the current maximum number of open microphones is full and all open microphones are chairman units, if you press another chairman unit, "Microphone is full" will be displayed;

Priority: Press the chairman machine priority button to activate the chairman machine priority function, that is, immediately turn off all representative machines, turn on the microphone, and wait. If the microphone of the chairman unit has not been turned on before, the microphone of the chairman unit will be turned on (when the number of currently open microphones is full and all are chairman units, the microphone of the chairman unit will not be turned on).

4.5 Application mode (APPLY)

①APPLY Representative machine opening microphone management

Application mechanism: The representative machine presses the microphone open button to apply to the chairman machine to open the microphone. At this time, the chairman machine interface with a screen will remind, and the screen displays "Representative machine applies to open the microphone" (the chairman machine presses "Agree", then Open the microphone of the representative machine that applies for opening the microphone in turn). The maximum number of microphones that a representative machine can apply for is N. If the number exceeds, "Microphone applications are full" will be displayed. When the representative machine is in the application state, press it again to open the microphone to exit the application state.

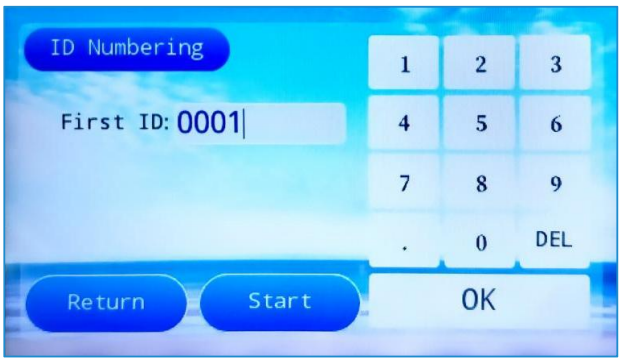
Automatic cancellation mechanism: After the representative machine enters the state of applying for opening the microphone, if the chairman machine does not agree to open the microphone within 15 seconds, the representative machine will automatically cancel the application and exit the state of applying for opening the microphone.

②APPLY Chairman machine open microphone management

Preemption mechanism: Within the maximum number of microphones allowed to be opened N, when the chairman's microphone is opened, the representative machine will be squeezed out of the microphone opening queue (that is, the microphone of the representative machine that is the earliest to open the microphone or the earliest to apply for opening the microphone among the representative machines that currently have the microphone open is turned off. status, and turn on your own microphone at the same time); the open microphone is full prompt: the chairman machine has no application mechanism. When the current maximum number of open microphones is full and all the opened microphones are chairman machines, if you press another chairman machine, "Number of Microphones" will be displayed. Full";

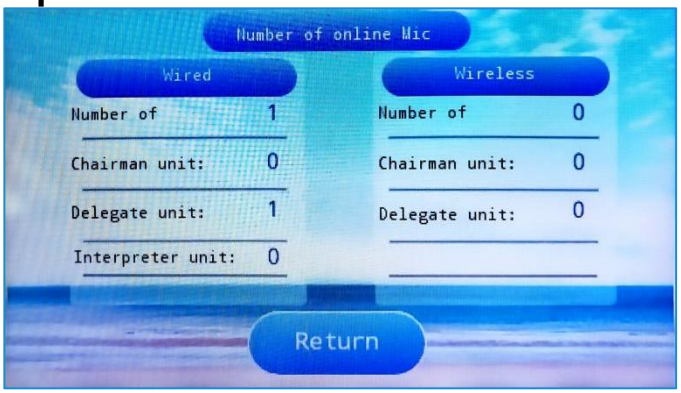
Priority: Press the chairman machine priority button to activate the chairman priority function, that is, immediately turn off the microphone opening and application status of all representative machines. If the microphone of the chairman unit has not been turned on before, the microphone of the chairman unit will be turned on (when the number of currently open microphones is full and all are chairman units, the microphone of the chairman unit will not be turned on).

4.6 Set microphone ID number



Set the microphone ID number and enter the ID programming interface in the main function interface. If you need to change the starting ID number, you can select the starting ID number box and press the keyboard to set the starting ID number (range 1 ~ 4095). When the starting ID number is greater than 300, the starting ID for wireless ID numbering will be set. Will start with 1 since the maximum number of wireless units is 300. After setting, press "Confirm" to save the modified value; press "Start" to start programming ID. At this time, you can manually operate all units to turn on the microphone key to program ID (the unit will display the local ID and currently available ID). After pressing, the red indicator light on the unit lights up, indicating that the operation is valid (the current ID is set as the local ID). Press "End" to end the software ID programming state.

4.7 Online microphone status



Enter the system status interface from the main function interface to view the number and classification of all currently online units. The current system only contains chairman machine, representative machine and interpreter machine. You can view the actual changes in system status by plugging in the current chairman machine and representative machine (the host's detection time for plugging in is 1 minute at most when the whole machine is idle. If the display is not actually updated, please wait patiently for its value to change. to check the verification. Frequent plugging and unplugging of units is prohibited during use)

4.8 System settings



Enter the system status interface from the main function interface, with a total of 8 sub-items to choose from. And the current version number can be displayed in the lower left corner.

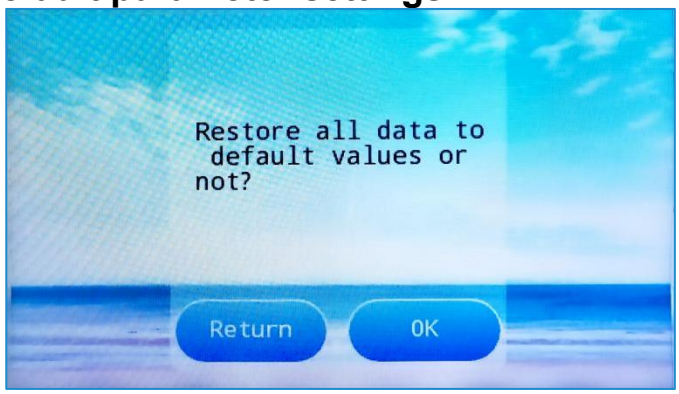
4.9 Volume adjustment



Hardware wiring method: Connect the external sound source to the background music input port LINE IN1/2, and output it from LINE OUT1/2 to the power amplifier speaker device.

After entering the system settings from the main function interface, and then entering the volume adjustment, you can enter the volume adjustment interface. Use the +/- buttons to adjust the high and low volume values to hear the changing effect of the actual music. The volume is adjustable from 0 to 31, and when it is 0, the background music is muted.

4.10 Restore default parameter settings



Enter the restore default interface and confirm whether you need to restore the default. Restoring to default means restoring factory settings.

The default parameters are as follows:

The conference mode is FIFO, the number of wired microphones is 8, and the number of wireless microphones is 6;

The starting ID of programming ID is 0001;

The default touch screen display interface is in English;

The initial LINE OUT1/2 volume is 31;

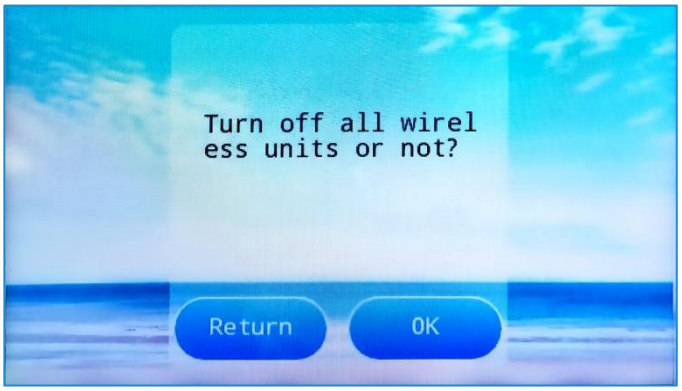
The local IP address is 192.168.11.168, the subnet mask is 255.255.255.0, and the gateway is 192.168.11.1.

4.11 View local IP address



Enter the local IP to view the local IP address, gateway, and subnet mask

4.11 Power off all wireless microphones



After the meeting, you can enter the wireless unit to shut down, and then press Confirm to turn off the power of all wireless microphones with one click.

4.12 USB recording



Enter the recording interface. If a USB flash drive is inserted, you can play background music or record the mix of LINE IN and microphone. When entering recording without inserting the USB flash drive, the interface will prompt "Please insert the USB flash drive".

Remark：1) Please use the matching USB flash drive.

2) Audio files can only be stored in the specified AUDIO folder.

3) U disk supports up to 16G, use the original factory equipped U disk.

4.13 Camera control

The conference host supports the VISCA/PELCD_D camera protocol. Users can directly connect to a single camera through 232/485, or connect to the camera tracking host to connect multiple cameras. The camera settings need to be implemented using PC software. The latest host plus PC software supports wired Camera tracking of units and wireless microphones.

4.14 Camera connection and configuration

485 method---Users can use the CAMERA-485 interface on the back of the host to directly connect to the camera port, and operate the VISCA/PELCD_D protocol camera through the pre-meeting preparation -> camera control page of the PC software, set the corresponding position and then select Save Preset position, after saving the preset positions of all units in sequence, select the panoramic position and save (must operate in this order). After saving, the user can choose to call the preset position to check whether it is correct. After everything is completed, check whether the camera downgrade mechanism is correct by switching the microphone on and off.

232 mode---Users can directly connect to the CONTROL SYSTEM interface of the conference host through the 232 serial port straight line configured by the camera, and operate the camera in the same way as the 422 mode.

Connect the CONTROL SYSTEM interface to the CONTROL interface of the camera tracking host through the 232 line, and then connect the T/R+ and T/R- ports of the tracking host's CAMERA NET to the camera port, then you can control VISCA/PELCD- as above D protocol camera.

4.15 Description of the actual use of camera tracking

Upgrade: Turn on the microphone, and the camera will automatically track the position of the newly opened microphone.

Downgrade: Turn off the microphone, and the camera will automatically downgrade to the microphone position in the current last microphone-on state.

Midway status change: During use, if a microphone is turned off midway, the microphone position will be automatically cleared, and the upgrade and downgrade mechanism remains unchanged.

No microphone state: the camera will point to the panoramic position.

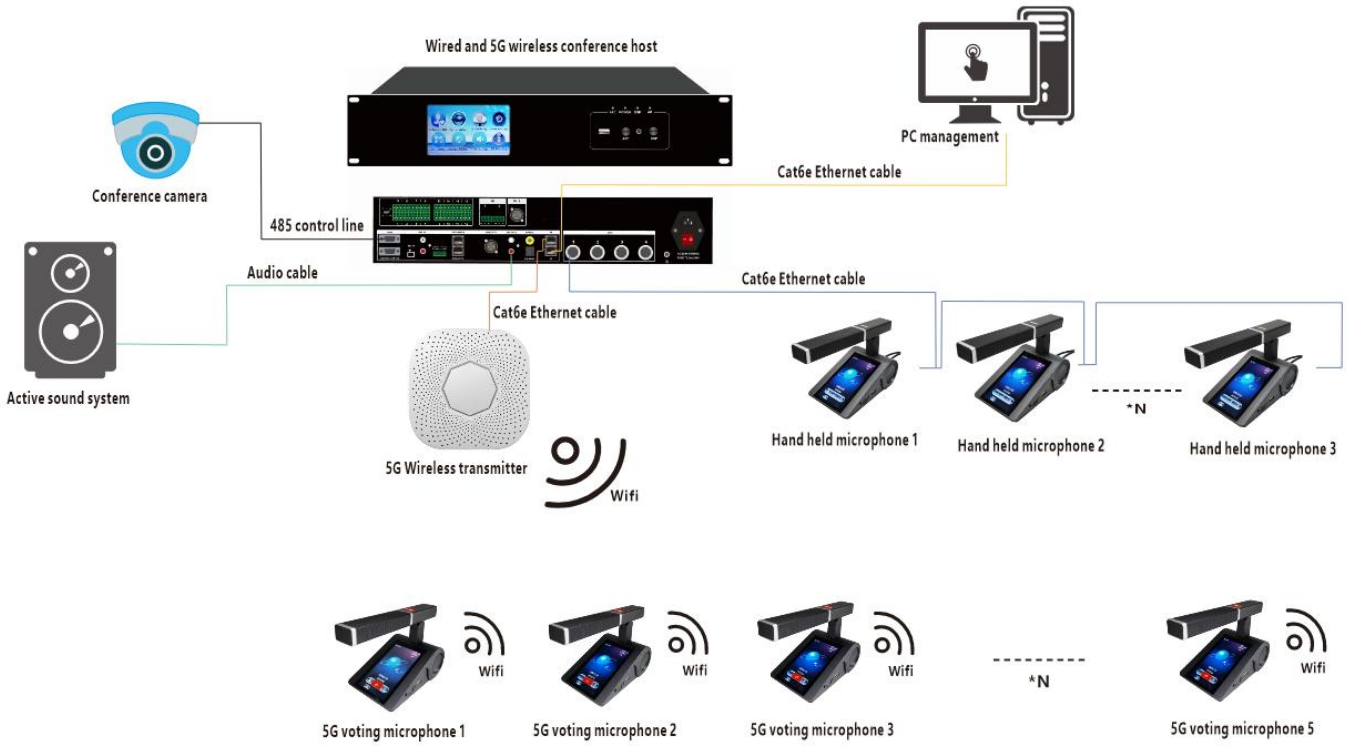
For example: There are currently cameras 1, 2, 3, and 4. When microphones 1, 2, 3, and 4 are turned on in sequence, the cameras will track the positions of microphones 1, 2, 3, and 4 in turn. If microphone 2 is turned off at this time, The camera will not change. If microphone 4 is turned off, the camera points to position 3. Turn off microphone 3 and point the camera to position 1. Turn off microphone 1 and point the camera to the panoramic position.

4.16 fire alarm



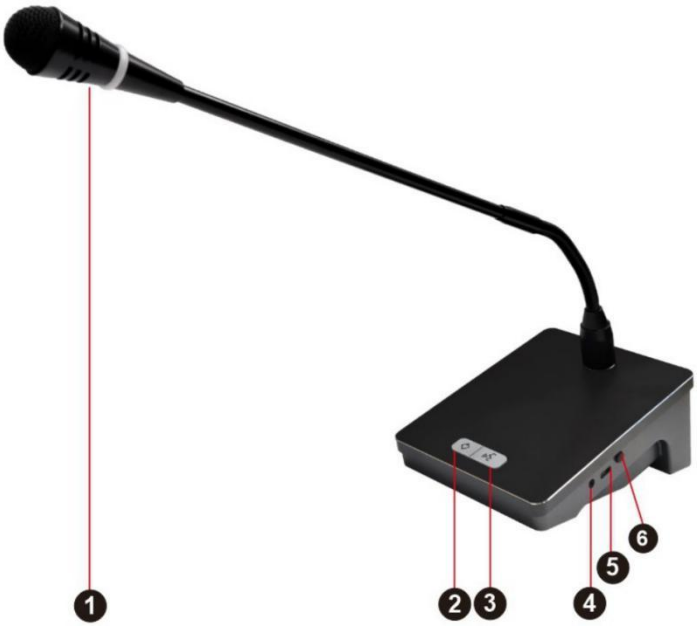
By short-circuiting the two signal pins of the ALARM output behind the conference host (simulating sending a fire alarm signal to the host), the conference host display and microphone display will alert the alarm signal. When the signal pin of this interface detects that the fire alarm is canceled (i.e. open circuit), it will automatically return to normal.

5. System connection diagram



Wired hand-held, screen-free, silicone button, network-enabled, fully digital conference chair unit (for speaking and signing in)

CSD-R6-CU / CSD-R6-DU



Port usage instructions:

1. Gooseneck microphone boom, used for voice pickup. When the speaking function is activated, the red light above it will illuminate; when a delegate applies to speak, the green light will illuminate.

2. The chairman unit has the priority function and can shut down all the delegate units that are currently speaking.

3. Speech on/off button.

4. 3.5mm headphone jack, supports audio input, replaces microphone input.

5. Type-C interface, capable of charging devices, facilitating program upgrades and configuration parameter functions, supporting fast charging, with a full charge in 3 hours. Charging indicator light, red

And a green light, which changes color during charging and turns green when fully charged.

6. Microphone on/off button.

characteristic:

1. Adopt standard CAT6e as the connecting cable, with RJ45 connectors, facilitating standardized engineering cabling installation and later maintenance. With a 48K sampling rate, non-compressed audio is used

Transmission technology.

2. Metal long-type microphone boom, with a 12mm diameter gold-plated condenser microphone cartridge;

3. The microphone boom features a dual-color indicator light, with red indicating speaking and green indicating application, allowing for clear display of the speaking status. The sound pickup is clear and sensitive;

4. It features a voice control function with adjustable sensitivity.

5. It features functions such as speech timing and scheduled speaking, including countdown for speaking. The representative device also has a function to apply for speaking.

6. The adjustable microphone unit through the conference software features a 5-band EQ adjustment function, allowing for the adjustment of different sound effects according to the speaker's voice characteristics;

7. Each microphone unit can adjust parameters such as unit ID number, sensitivity, and EQ through PC or WEB conference management software.

8. The unit supports IP address sniffing function, which allows the ID number, IP address, and MAC address information of unknown units to be found through PC tools.

9. It supports TCP/IP protocol and various protocols such as ICMP, HTTP, UDP, TCP, and IGMP.

10. The unit supports the PING packet function.

11. Supports microphone control through PC software and voice control function.

12. The chairman unit has the priority to shut down the speaking function of the representative unit.

13. Physical mute button, interface: dual network port design;

14. Support sign-in function, and also have the ability to prohibit unit sign-in and control unit sign-in through PC software.

15. The original digital ring network technology enables all-digital signal transmission and processing, and is resistant to RF interference from mobile phones and similar devices.

16. The unit is a passive device, powered directly by the conference host or an expansion host.

Technical parameters:

1. Microphone type: Electret condenser microphone

2. Microphone cartridge directionality: Cardioid

3. Frequency response: 20Hz~20KHz

4. Microphone input impedance: 1KΩ

5. Sensitivity: -40±2dB (0dB=1V/Pa, at 1KHz)

6. Signal-to-noise ratio: >80dB(A)

7. Crosstalk: >70dB
8. Dynamic range: >80dB
9.THD:<0.3%
10. Maximum power consumption: 3W
11. Network ports: 2, cascade network ports
12. Power supply mode: supplied by the conference host
13. Color: Black
14. Dimensions (LxWxH): 103*141*62mm (excluding the microphone boom)
15. Length of the antenna rod: Long antenna rod 415mm
16. Installation method: Desktop type
17. Weight: 0.6kg

Wired hand-held, screen-free, silicone button, network-enabled, fully digital conference chair unit (for speaking and signing in)

CSD-R6-CUT / CSD-R6-DUT



Port usage instructions:

1. Square microphone boom, used for voice pickup. When the speaking function is turned on, the red light above it will be on; when a delegate applies to speak, the green light will be on.

2. The chairman unit has the priority function and can shut down all the representative units that are currently speaking.

3. Speech on/off button.

4. 3.5mm headphone jack, supports audio input, replaces microphone input.

5. Type-C interface, capable of charging devices, with program upgrade and configuration parameter functions, supports fast charging, fully charged in 3 hours. Charging indicator light, red

And the green light, it's the light color when charging, and it turns green when fully charged.

6. Microphone on/off button.

Characteristic:

1. Utilize standard CAT6e as the connecting cable, equipped with RJ45 connectors, facilitating standardized engineering cabling installation and subsequent maintenance. Adopt a 48K sampling rate and utilize uncompressed audio

Transmission technology.

2. Metal short microphone boom, with a 14mm diameter gold-plated condenser microphone cartridge;

3. The microphone boom features a dual-color indicator light, with red indicating speaking and green indicating application, allowing for clear display of the speaking status. The sound pickup is clear and sensitive;

4. It features a voice control function with adjustable sensitivity.

5. It features functions such as speech timing and scheduled speaking, including countdown for speaking. The representative device also has a function to apply for speaking.

6. The adjustable microphone unit through the conference software features a 5-band EQ adjustment function, allowing for the adjustment of different sound effects according to the speaker's voice characteristics;

7. Each microphone unit can adjust its ID number, sensitivity, EQ, and other parameters through PC or WEB conference management software.

8. The unit supports IP address sniffing function, which allows users to find the ID number, IP address, and MAC address information of unknown units through PC tools.

9. It supports TCP/IP protocol and various protocols such as ICMP, HTTP, UDP, TCP, and IGMP.

10. The unit supports the PING packet function.

11. Supports microphone control through PC software and supports voice control function.

12. The chairman unit has the priority authority to disable the speaking function of the representative units.

13. Physical mute button, interface: dual network port design;

14. Support sign-in function, and also have the ability to prohibit unit sign-in and control unit sign-in through PC software.

15. The original digital ring network technology enables all-digital signal transmission and processing, and is resistant to RF interference from mobile phones and similar devices.

16. The unit is a passive device, powered directly by the conference host or an extension host.

Technical parameters:

1. Microphone type: Electret condenser microphone

2. Microphone cartridge directionality: Cardioid

3. Frequency response: 20Hz~20KHz

4. Microphone input impedance: 1KΩ

5. Sensitivity: -40±2dB (0dB=1V/Pa, at 1KHz)

6. Signal-to-noise ratio: >80dB(A)

7. Crosstalk: >70dB
8. Dynamic range: >80dB
9.THD:<0.3%
10. Maximum power consumption: 3W
11. Ethernet ports: 2, cascade-enabled Ethernet ports
12. Power supply mode: powered by the conference host
13. Color: Black
14. Dimensions (LxWxH): 103*215*125mm
15. Length of the microphone boom: Short microphone boom 215mm,
16. Installation method: Desktop type
17. Weight: 0.71kg

Wired hand-held conference chair unit with screen,silicone/touch button, and full digital network capabilities (for speaking and signing in)

CSD-R6-CUS / CSD-R6-DUS



Port usage instructions:

1. Gooseneck microphone boom, used for speech pickup. When the microphone is turned on, the red light above it will be on; when a delegate applies to speak, the green light will be on.

2. The chairman unit has the priority function and can shut down all the representative units that are currently speaking.

3. Speech on/off button.

4. 3.5-inch high-definition full-color display, displaying status information during meetings, battery level, and signal indicators. Supports voting, decision-making, election, and rating.

5. 3.5mm headphone jack, supports audio input, replaces microphone input.

6. Type-C interface, capable of charging devices, supporting program upgrades and configuration parameters, and supporting fast charging function, fully charged in 3 hours. Charging indicator light, red

And the green light, it's the light color when charging, and it turns green when fully charged.

7. Microphone on/off button.

Characteristic:

1. Adopt standard CAT6e as the connecting cable, with RJ45 connectors, facilitating standardized engineering cabling installation and later maintenance. With a 48K sampling rate, non-compressed audio is used

Transmission technology.

2. Metal long-type microphone boom, with a 12mm diameter gold-plated condenser microphone cartridge;

3. The microphone boom features a dual-color indicator light, with red indicating speaking and green indicating application, allowing for clear display of the speaking status. The sound pickup is clear and sensitive;

4. Equipped with a 3.5-inch IPS screen interface, displaying unit ID, date, time, speaking status, speaking time, and other information;

5. Support the issuance of 16-character usernames in the host PC software for display on the conference unit microphone;

6. Adopt a low-power, 400M SOC core processor,

7. Dual-safety speaking control, supporting both touch screen speaking switch and physical mute button speaking switch, can effectively prevent keystroke noise and ensure a good environment in the meeting place;

8. Support sign-in, voting, voting, and election functions, and set up and initiate sign-in, voting, voting, and election through PC software.

9. Supports simultaneous interpretation and 63+1 channels. The unit features a listening function, allowing simultaneous listening to different interpreter channels.

10. Support service call function, including tea, paper, pen, and manual service.

11. Supports any size of ASCII, GBK, GB2312, UNICODE (global language) character libraries;

12. A 3.5mm headphone jack design, featuring a dual-purpose interface capable of both monitoring output and MIC input. It supports headset or line input functions and can be connected to a mobile phone,

Upload audio from laptops, etc., for phone calls and online meetings.

13. Equipped with a voice control function, with adjustable voice control sensitivity.

14. It features functions such as speech timing and scheduled speaking, including countdown for speaking. The delegate unit also has a function to request to speak.

15. The adjustable microphone unit of the conference software features a 5-band EQ adjustment function, allowing for the adjustment of different sound effects according to the speaker's voice characteristics;

16. Support display brightness adjustment, which can be customized through the

unit interface.

17. Support device status inquiry. The unit interface allows viewing of the current speaking mode, unit ID number, IP address, and MAC address.

18. Each microphone unit can adjust its unit ID number, sensitivity, EQ, and other parameters through PC or WEB conference management software.

19. The unit supports IP address sniffing function, which allows users to find the ID number, IP address, and MAC address information of unknown units through PC tools.

20. It supports TCP/IP protocol and various protocols such as ICMP, HTTP, UDP, TCP, and IGMP.

21. The unit supports the PING packet function.

22. It features a fire alarm notification function. When the main unit receives a fire trigger, the unit displays an alarm signal, immediately alerting venue personnel to evacuate urgently, ensuring

The safety of personnel at the venue;

23. Supports microphone control via PC software and voice control function.

24. The chairman unit has the priority to shut down the speaking function of the representative unit.

25. Support sign-in function, and also have the ability to disable unit sign-in and control unit sign-in through PC software.

26. Support digital ring network technology to achieve all-digital signal transmission and processing, and resist RF interference from mobile phones and similar devices.

27. The unit is a passive device, powered directly by the conference host or an extension host.

Technical parameters:

1. Microphone type: Electret condenser microphone
2. Microphone cartridge directionality: Cardioid
3. Frequency response: 20Hz~20KHz
4. Microphone input impedance: 1KΩ
5. Sensitivity: -40±2dB (0dB=1V/Pa, at 1KHz)
6. Signal-to-Noise Ratio: >80dB(A)
7. Crosstalk: >70dB
8. Dynamic range: >80dB
9. THD:<0.3%
10. Maximum power consumption: 5W
11. Ethernet ports: 2, cascade-enabled Ethernet ports
12. Power supply mode: powered by the conference host
13. Color: Silver gray

14. Dimensions (LxWxH): 103*141*62mm (excluding the microphone boom)
15. Length of the meter rod: The long meter rod measures 415mm in length,
16. Installation method: Desktop type
17. Weight: 0.65kg

Wired hand-held conference chair unit with screen,silicone/touch button, and full digital network capabilities (for speaking and signing in)

CSD-R6-CUTS / CSD-R6-DUTS



Port usage instructions:

1. Square microphone boom, used for voice pickup. When the speaking function is activated, the red light above it will illuminate; when a representative applies to speak, the green light will illuminate.

2. The chairman unit has the priority function and can shut down all the representative units that are currently speaking.

3. Speech on/off button.

4. Service request button, which can be clicked when there is a need for any service during the meeting.

4. 3.5-inch high-definition full-color display screen, displaying status information during meetings, battery level, and signal indicators. Supports voting, voting, election, and rating.

5. 3.5mm headphone jack, supports audio input, replaces microphone input.

6. Type-C interface, capable of charging devices, supporting program upgrades and configuration parameters, and supporting fast charging function, with a full charge in 3 hours. Charging indicator light, red

And the green light, it's the light color when charging, and it turns green when fully charged.

7. Microphone on/off button.

characteristic:

1. Standard CAT6e is used as the connecting cable, with RJ45 connectors, facilitating standardized engineering cabling installation and subsequent maintenance. With a 48K sampling rate, non-compressed audio is employed

Transmission technology.

2. Metal short microphone boom, 14mm diameter gold-plated condenser microphone cartridge;

3. The microphone boom features a dual-color indicator light, with red indicating speaking and green indicating application, allowing for clear display of the speaking status. The sound pickup is clear and sensitive;

4. Equipped with a 3.5-inch IPS screen interface, displaying unit ID, date, time, speaking status, speaking time, and other information;

5. Support the issuance of 16-character usernames through the host PC software for display on the conference unit microphone;

6. Adopt a low-power, 400M SOC core processor,

7. Dual-safety speaking control, supporting both touch screen speaking switch and physical mute button speaking switch, can effectively prevent keystroke noise and ensure a good environment in the conference venue;

8. Support sign-in, voting, voting, and election functions, and set up and initiate sign-in, voting, voting, and election through PC software.

9. It supports simultaneous interpretation and 63+1 channels. The unit has a listening function, allowing simultaneous listening to different interpreter channels.

10. Support service call function, including tea, paper, pen, and manual service.

11. Supports any size of ASCII, GBK, GB2312, UNICODE (global language) font libraries;

12. A 3.5mm headphone jack design, featuring a dual-purpose interface capable of outputting audio for monitoring and MIC input. It supports headset microphones or line input functions, allowing for audio upload from mobile phones, laptops, etc., enabling phone calls and online meetings.

13. It features a voice control function with adjustable sensitivity.

14. It features functions such as speech timing and scheduled speaking, including countdown for speaking. The representative device has the function of applying for speaking.

15. The adjustable microphone unit through the conference software features a 5-band EQ adjustment function, allowing for the adjustment of different sound effects according to the speaker's voice characteristics;

16. Support display brightness adjustment, which can be customized through the unit interface.

17. Support device status inquiry. The current speaking mode, unit ID number, IP address, and MAC address can be viewed on the unit interface.

18. Each microphone unit can adjust its ID number, sensitivity, EQ, and other parameters through PC or WEB conference management software.

19. The unit supports IP address sniffing function, which allows users to find the ID number, IP address, and MAC address information of unknown units through PC tools.

20. It supports TCP/IP protocol and various protocols such as ICMP, HTTP, UDP, TCP, and IGMP.

21. The unit supports the PING packet function.

22. It has a fire alarm prompt function. When the host receives a fire trigger, the unit displays an alarm signal to remind the venue personnel to evacuate immediately, ensuring

The safety of personnel at the venue;

23. Supports microphone control through PC software and voice activation function.

24. The chairman unit has the priority to shut down the speaking function of the representative unit.

25. Support the sign-in function, and also have the ability to disable unit sign-in and control unit sign-in through PC software.

26. Support digital ring network technology to achieve all-digital signal transmission and processing, and resist RF interference from mobile phones and similar devices.

27. The unit is a passive device, powered directly by the conference host or an extension host..

Technical parameters:

1. Microphone type: Electret condenser microphone
2. Microphone cartridge directionality: Cardioid
3. Frequency response: 20Hz~20KHz
4. Microphone input impedance: 1KΩ
5. Sensitivity: -40±2dB (0dB=1V/Pa, at 1KHz)
6. Signal-to-noise ratio: >80dB(A)
7. Crosstalk: >70dB
8. Dynamic range: >80dB
9. THD:<0.3%
10. Maximum power consumption: 5W
11. Network ports: 2, cascade network ports
12. Power supply mode: powered by the conference host
13. Color: Silver gray
14. Dimensions (LxWxH): 103*215*125mm
15. Length of the antenna rod: Short antenna rod 215mm,
16. Installation method: Desktop type
17. Weight: 0.77kg

2.4-inch screen chairman/representative silicone button wireless full digital conference unit (speaking, signing in)

CSD-WR6-CUS / CSD-WR6-DUS



Port usage instructions:

1. Gooseneck microphone boom, used for speech pickup. When the microphone is turned on, the red light above it will be on; when a delegate applies to speak, the green light will be on.

2. The chairman unit is equipped with a priority function that allows it to shut down all the delegate units that are currently speaking.

3. Speech on/off button.

4. 2.4-inch high-definition full-color display screen, which displays status information during meetings, as well as battery level and signal indicators.

5. 3.5mm headphone jack, capable of inputting audio source.

6. Type-C interface, capable of charging devices, facilitating program upgrades and configuration parameter functions, supporting fast charging, with a full charge in 3 hours. Charging indicator lights, red and green Color light, it is light color when charging, and turns green when fully charged.

7. Power button: Press to turn on, long press for 3 seconds to turn off. When turned off, press and hold for 4 consecutive times to enter the SSID setting interface.

Features:

1. High-definition 2.4-inch full-color display, showing microphone status, current time and date, speaking time, supporting speech timing, scheduled speaking, signal strength, and

The battery level, ID number, and other information are clearly displayed.

2. The microphone features a 48kHz sampling rate and can display the customer's full-color national emblem.

3. It features intelligent fault detection capabilities, alerting users to conditions such as AP malfunctions, host communication failures, and low signal strength.

4. With a simple TYPE-C interface for setting SSID and password, it ensures that the extended system will not connect to the wrong AP.

5. It features speech timing and scheduled speaking functions.

6. Adjust the voice control sensitivity and set the shutdown time through PC software.

7. Equipped with a 5-band EQ adjustment function, it allows for comprehensive adjustment of various sound effects across all microphones, until achieving the perfect result.

8. Support the sign-in function, which can be set up and initiated through PC software.

9. Utilizing 128-bit AES encryption technology and supporting WPA/WPA2 wireless security technology, it prevents eavesdropping and unauthorized access, providing higher confidentiality for the conference system.

10. Utilizing wireless transmission technology and equipped with a built-in rechargeable lithium battery, it does not affect normal conference usage.

11. The chairman has the priority function and can turn off all the microphones of the representatives who are speaking. The representative microphones support the sign-in function, support the application for speaking, and support multiple modes.

12. Equipped with a built-in lithium battery, the battery capacity is approximately 10 hours.

17

High-end series network full digital conference

13. Equipped with one 3.5mm stereo headphone jack.

14. Supports TYPE-C port for upgrading programs and 18W fast charging, and can charge the microphone via a power bank.

Technical parameters:

1. Microphone type: Cardioid directional electret

2. Frequency response: 20Hz~20KHz

3. Microphone input impedance: 1KΩ

4. Sensitivity: -40±1.5dB (0dB=1V/Pa, at 1KHz)

5. Maximum SPL: 100dB (THD>3%)

6. Signal-to-noise ratio: >80dB(A)

7. Crosstalk: >70dB

8. Dynamic range: >80dB

9.THD： <0.1%

10. Maximum power consumption: 1.5 W

11. Power supply: lithium battery

12. Charging method: Connect to the charging case via the TYPE-C interface for charging

13. Color: Black

14. Check-in function: Press the button to check in

15. Display screen: 2.4 inches

16. Dimensions (LxWxH):

17. Installation method: Desktop type

18. Wireless frequency range: 5.15GHz~5.85GHz

19. Battery capacity: 5000mAh

21. Operating duration of speaking mode: 10 hours

23. Length of the antenna rod: Long antenna rod 400mm, black

21. Product size: mm

22. Outer box size: 560*280*170mm

23. Equipment weight: kg

24. Total weight: kg

2.4-inch screen chairman/representative silicone button wireless full digital conference unit (speaking, signing in)

CSD-WR6-CUTS / CSD-WR6-DUTS



Port usage instructions

1. Square microphone boom, used for speech pickup. When the speaking function is turned on, the red light above it will be on; when a delegate applies to speak, the green light will be on.

2. The chairman unit possesses a priority function, which allows it to shut down all the representative units that are currently speaking.

3. Speech on/off button.

4. A 2.4-inch high-definition full-color display screen, which displays status information during meetings, battery level, and signal indicators.

5. 3.5mm headphone jack, capable of inputting audio source.

6. Type-C interface, capable of charging devices, performing program upgrades and configuring parameters, supports fast charging function, fully charged in 3 hours. Charging indicator lights, red and green

Color light, it's colored when charging and turns green when fully charged.

7. Power button: Press to turn on, long press for 3 seconds to turn off. When turned off, press and hold for 4 consecutive times to enter the SSID setting interface.

Features:

1. High-definition 2.4-inch full-color display, showing microphone status, current time and date, speaking time, supporting speaking timing, scheduled speaking, signal strength, and

battery

The information such as electricity quantity and ID number is clearly displayed.

2. The microphone adopts a sampling rate of 48kHz and can display the customer's full-color national emblem.

3. It features intelligent fault detection capabilities, alerting users to conditions such as AP malfunctions, host communication failures, and low signal strength.

4. It features a simple TYPE-C interface for setting SSID and password, ensuring that the extended system will not connect to the wrong AP.

5. It has the function of timing and scheduled speaking.

6. Adjust the voice control sensitivity and set the shutdown time through PC software.

7. Equipped with a 5-band EQ adjustment function, it allows for comprehensive adjustment of various sound effects across all microphones, until achieving the perfect result.

8. Support sign-in function, set up and initiate sign-in through PC software.

9. Utilizing 128-bit AES encryption technology and supporting WPA/WPA2 wireless security technology, it prevents eavesdropping and unauthorized access, providing higher confidentiality for the conference system.

10. Utilizing wireless transmission technology and featuring a built-in rechargeable lithium battery, it does not affect normal conference usage.

11. The chairman has the priority function and can turn off all the microphones of the representatives who are speaking. The representative microphones support the sign-in function, support the application for speaking, and support multiple modes.

12. Equipped with a built-in lithium battery, with a capacity of approximately 10 hours.

13. Equipped with one 3.5mm stereo headphone jack.

14. Supports TYPE-C port for program upgrades and 18W fast charging, allowing charging of the microphone via a power bank.

Technical parameters:

1. Microphone type: Cardioid directional electret

2. Frequency response: 20Hz~20KHz

3. Microphone input impedance: 1KΩ

4. Sensitivity: -40±1.5dB (0dB=1V/Pa, at 1KHz)

5. Maximum SPL: 100dB (THD>3%)

6. Signal-to-noise ratio: >80dB(A)

7. Crosstalk: >70dB

8. Dynamic range: >80dB

9. THD：<0.1%

10. Maximum power consumption: 1.5 W

11. Power supply: lithium battery

12. Charging method: Connect to the charging case via the TYPE-C interface for charging

13. Color: Black

14. Check-in function: Press the button to check in

15. Display screen: 2.4 inches

17. Installation method: Desktop type

18. Wireless frequency range: 5.15GHz~5.85GHz

19. Battery capacity: 5000mAh

21. Operating duration of speech mode: 10 hours

23. Mic boom length: square mic boom 215mm, black

21. Product dimensions: 105*220*130mm

22. Outer box size: 560*280*170mm

23. Equipment weight: 0.73kg

24. Total weight: 2.57kg

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