

The technical data may be changed without prior notice

Professional Conference System

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CM-5800
CM-5800C
CM-5800D



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USER MANUAL

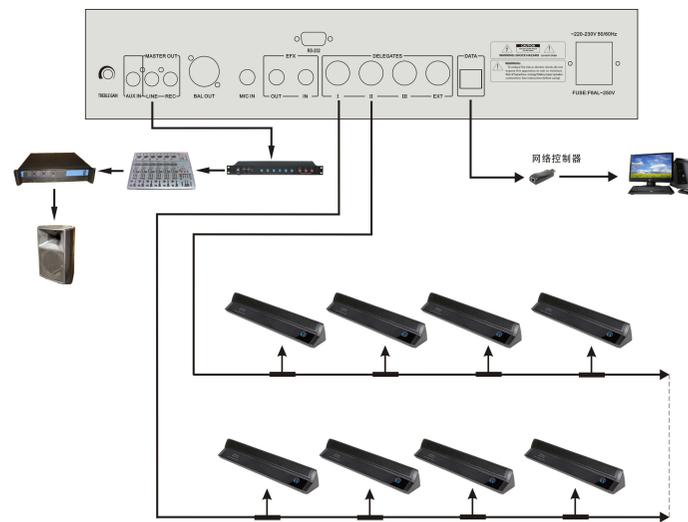
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Press the NUMBER key to increase the speaking time. The time can be 0-255 minutes. Select 0 to turn off the speaking time limit function. Select 1-255 minutes to turn on the speech limit function. After the microphone is turned on, it will realize the speech limit function of the set time. After the countdown of the set time, the microphone will turn off automatically.
D.Press SAVE;

Notes

- 1.For adequate ventilation, the clearance around the equipment shall not be less than 10cm.
- 2.Vents should not obstruct ventilation by covering items such as newspapers, tablecloths and curtains.
- 3.Bare sources of flame, such as lit candles, should not be placed on equipment.
- 4.Equipment operating temperature range of 0-70 ° C.
- 5.Equipment should not be subject to water droplets or splashes, equipment should not place such as vases containing liquid items.
- 6.The power plug of the equipment should be used in the socket with grounding.
- 7.If the terminal marked with the danger warning sign on the equipment is a warning of dangerous electrification, non-professionals should not operate it.
- 8.It is only suitable for use under 2000 meters above sea level and in non-tropical climate.

System connection reference diagram



Introduction

This system, the function is comprehensive, can according to the user different request, USES the different operation mode, manages the meeting discussion.Can be used in combination with simultaneous interpretation, wired/wireless language distribution systems.
The system can be connected to the computer for operation, but also independent from the computer work.Select the system control mode from the host panel: computer control mode and host control mode.The power of the main control machine is 415W, and a single host machine can be equipped with 60 sets of representative/chairman units.A single host with extended communication capacity can reach up to 240.

System Configuration

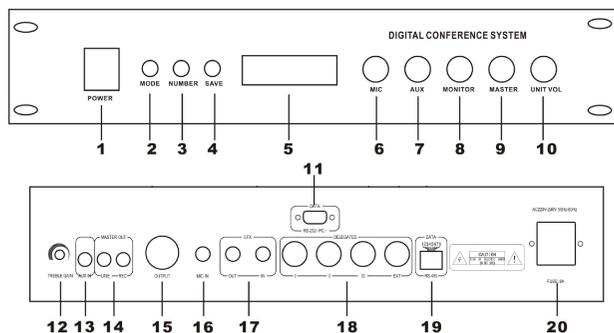
- The digital control and sound signals connected between the main controller and the conference system are transmitted by the same cable (8-core)
- It can operate independently or the external computer and software can operate synchronously to realize various conference management functions (conference mode or operation: designated speech, free speech, application speech and first-in, first-out speech, etc.)
- Single machine can achieve the following several meeting functions: open meeting, limited speech, fifo
- The system has better sound quality and sound channel effect
- There are three meeting management modes:
 - Free
 - FIFO
 - LIMIT
- The number of simultaneous speakers is optional: 1-9 microphones (including) or open microphone.
- With speech counting function.
- External video CPU can realize speaker location and tracking function.
- The panel has LCD display, 122x32 lattice display meeting mode.The panel has function keys and knobs for system setting and adjustment.
- A set of audio signal input terminals, external CD player and other audio input equipment.
- With a set of MIC input terminals, you can take over the signal of briefing MIC and wireless MIC.
- With 3 sets of audio signal output terminals, can be external recording or audio equipment.
- Frequency response :40Hz ~ 16kHz;Total harmonic distortion: < 0.1%
- Built - in 1.5w listening horn with volume adjustment
- Power consumption :415W
- 220v-230v ~ 50hz-60hz ac power supply is adopted
- Comply with international conference equipment and safety standards UL, CE certification

- Net weight of main engine: 11.8kg
- Dimensions: 485mm (including handle)×100mm (2U, including chassis pad)×355mm (W×H×D); Can be placed horizontally on the table or mounted in a 19-inch standard cabinet.
- The system can be connected to automatic tracking video system and voting system.

Schematic diagram of main unit

When the number of speaking devices in the meeting reaches 70, a master control machine cannot meet its needs. At this time, it is necessary to extend the host machine to provide power.

- Power consumption: 450W.
- Has four sets of 8P-DIN sockets for system multiplexing or connecting to other extension hosts.
- This machine adopts 220v-230v ~ 50hz-60hz ac power supply.
- Dimensions: 485mm (including handle)× 100mm (2U, including chassis pad) ×355mm (W×H×D); Can be placed horizontally on the table or mounted in a 19-inch standard cabinet.



1. POWER switch (press 1 to open the POWER supply, and the POWER indicator will be on. Press 0 to turn off the power and turn off the light)
2. MODE button, can choose: free MODE, rotation MODE (1 to 9), limit MODE (1 to 9), panel control MODE, computer control MODE.
3. NUMBER of speakers (1 to 9)
4. SAVE
5. LCD display
6. Wired microphone volume potentiometer (MIC)
7. AUX volume potentiometer (AUX)
8. MONITOR volume potentiometer
9. Total output volume potentiometer (MASTER)
10. UNIT volume potentiometer (unit. VOL)
11. Computer interface (rs-232)
12. TREBLE gain knob of the system

Meeting host and computer connection

1. The network controller is used to connect to the DATA interface of the main control machine, the USB port of the controller is connected to the USB interface of the computer, and the NET terminal of the controller is connected to the DATA interface of the main control machine through the network cable (over 5 types of network cable, the longest is 1000 meters). (the drive is CH341SER, and the network controller and network cable are factory standard)
 2. Connect the RS232 (PC) interface with the serial port line (9 pins, one male, one bus line).
 3. Connect RS232 (PC) interface with USB to RS232 serial port line, the serial port line with crystal of CH340 must be used. (driven by CH341SER)
- Note: when connecting the computer running software, the conference system line must be connected to ID001 non-voting unit to run the software normally.

System working mode setting

Press the MODE key of the host, and the corresponding text will be displayed on the LCD screen. The modes are: free MODE, limit MODE, rotation MODE, computer MODE and panel MODE.

After selecting the mode, press the SAVE button to SAVE it. The submode (optional) has chairman's special purpose, chairman's prompt tone and automatic shutdown.

After selecting the submode, press the SAVE key to SAVE it.

Host control mode (panel mode) :

- A. Press MODE key to select until the LCD displays "panel MODE";
- B. Press SAVE;
- C. Press MODE again to select: free MODE, alternate MODE, restricted MODE, one of them.
- D. Press SAVE; If rotation or restriction mode is selected in (c), perform the following steps:
- E. When selecting the above two modes, "NUMBER of speakers: people" appears in the LCD. At this time, press the NUMBER key to set the NUMBER, (1 to 9).
- F. Press SAVE. If any of the patterns in (c) is selected, the following sub-pattern steps can be continued:
- G. Press MODE key to select one of them until LCD displays chairman's special purpose, chairman's prompt tone and automatic shutdown.
- H. Press the NUMBER key to select the appropriate submode to turn on () or off ().
- I. Press SAVE.

Computer control mode (computer mode) :

- A. Press MODE key until LCD display: "computer MODE".
- B. Press SAVE.

Speech time limit setting

- A. Press MODE key until LCD display: "speech time limit".
- B. Press SAVE.
- C. Press MODE key again to decrease the speaking time;

System connection and debugging

1. The conference master control machine is placed on the cabinet or table surface, and the non-voting unit is placed on the table surface of each seat. Use the matching "T" line with "SYSTEM B" on the meeting host and meeting unit, and align and plug it tightly according to the "⇨" mark on the line; Pay attention to the "⇨" sign when connecting the cable. Distinguish the Master Part (2M terminal) of the main cable of "T" type line from the Extension line (1.5m terminal is the Extension line).
2. Use the male head of the 13 meter extension cord to plug it into any 8p-din socket of the main control machine (where the host machine is marked with DELEGATES).
3. Insert the male end of the main cable of "T" type wire into the female head of the extension cord according to the instruction mark, and insert the extension wire into the 8p-din socket of the passenger seat machine.
4. Connect other attendance machines in turn. If there are more meeting units in the system, they can be divided into multiple links.
5. If the meeting room requires the line to be hidden, please bury the line underground during the construction in advance. (according to the situation of the meeting room first contact our company custom line, please attach the size of the meeting room layout, our company has a special person for your configuration).
6. Use audio cable to connect the EFX OUT of the main controller with the balance input of the frequency shifter, and the EXF IN with the balance output of the frequency shifter (applicable for customers with frequency shifter).
7. If a mixer is available, connect it to the BAL OUT of the main controller
8. Connect the amplifier to the mixer. If there is no mixer, connect it to the LINE of the main control machine.
9. Connect the speaker to the amplifier.
10. Connect the recording device to the main controller (REC.).
11. After checking the correct connection of the system, put the power switch on the conference host panel in the disconnected state (button jumping out), adjust the volume potentiometer (VOL.) to the minimum, and adjust other control potentiometers to the central position (including the potentiometer of the power amplifier).
12. Connect the conference host to the power supply with the power cord, and then press the power switch of each host to check whether the power indicator light of each host is on.
13. Open any microphone in the venue and adjust the volume to an appropriate level by adjusting the system volume potentiometer (VOL).
14. According to the instructions of the main control machine, first test each function of the main control machine.
15. Combine the software to test the various functions of the whole system. If you have any questions, please contact us.

13. AUX IN (telephone coupler, DVD, etc.)
14. System LINE, recording output (LINE, REC)
15. Unit signal output (BAL OUT)
16. Wired microphone input terminal (MIC IN)
17. Effector output (EFX OUT/ IN)
- 18, on behalf of the socket (DELEGATES)
- 19, DATA interface (DATA) -- connect the computer to communicate through the network controller
20. Power socket (ac220v-230v ~ 50hz-60hz)

Features of the microphone



- Unit type: capacitive (back)
- Frequency response: 100hz-12khz
- Microphone: microphone array
- Directivity: corridor type
- Quantity of microphones: 17
- Best pickup distance: 60-80cm
- Sensitivity: - 42 plus or minus 1 db (1.5 V, the 680 k Ω;
- 0 db = 1 v/Pa, 1 KHZ)
- Output impedance: 200 Ω
- Power supply: 24V
- Maximum pressure level: 110dB
- SNR: >65dB
- Connector: 8 core wire

Represents unit features

- Desktop streamline design, aluminum alloy molding, fashion, elegant, noble, solemn temperament.
- No gooseneck design, the speaker and attendees can communicate without obstacles, the speaker also has better visual effect;The unique digital microphone array technology is adopted to establish its own sound pickup channel and range. No matter who is giving a speech, the sound pressure level will remain the same.
- Light touch switch, simple and convenient to speak;
- Anti-mobile phone, high frequency interference;
- OLED display, display time and date in standby mode, countdown function, unit has speech timing function;
- The best sound pickup distance is above 80CM, and the microphone can be placed at will, even if it is far away from the table.
- Accurate control of the sensitivity of the effective sound pickup range can effectively improve the sound transmission gain of the system.
- At the same time, both analog capacitance sound quality and array directional radio characteristics are considered.
- Can be connected to any analog processing system (digital automatic mixing system, digital audio processor, mixer, etc.), quickly build high-quality digital array conference system;
- Larger and farther sound pickup range, the speaker no longer care where the microphone is, with more space for activities;
- The hidden adjustable gain knob can quickly set up the whole system according to the field sound amplification conditions;

Features of chairman unit

In addition to all the features of the representative unit, the chairman unit also has the following features:

- The chairman unit in the system is not restricted by the restricted function and can be placed in any position in the loop.
- In the system, the number of chairman units in the system can only be one and the location is not limited
- With a set of headphone output jack and a set of wireless MIC input (optional)
- It has the priority function of forcibly cutting off the microphone speech of the attending unit and the prompt sound of the chairman first, and it is not forced to cut off by other chairman units.
- Has chairman mode

Speak instructions for equipment use

1. Representative unit: when you want to make a speech, press the MIC ON/OFF key. At this time, the light ring will be ON, indicating that you have entered the speech state;After you finish speaking, press the MIC ON/OFF button again. At this time, the light ring is OFF, indicating standby state.

2. Chairman unit: speak and shut down the same representatives; Press the PRIO key to abort all speak status of the representative unit

Host can achieve the following functions when connecting the computer and corresponding peripheral devices:

- 1) FREE mode: all participants are FREE to speak, and the chairman priority button works for all delegates. The operator may at any time designate any representative machine to open or close any representative machine.
 - 2) overwhelming rotation mode (FIFO) : it is to set the number of speakers at the same time of the conference. When the number of speakers specified by the conference is reached, speakers who want to speak later will automatically turn off the microphone that is first opened to maintain the limit of the number of speakers in the conference.(1-12 PCS can be set freely)
 - 3) LIMIT:When the number of speakers in the assembly reaches the number of speakers designated by the assembly, speakers must wait until the previous speaker quits.(1-12 PCS can be set freely)
- Chairman mode is optional: can choose chairman exclusive and chairman general mode. Chairman proprietary (C.o nly) : that is when the chairman of the microphone after press the first button, all the representatives of the microphone is closed can no longer open, unless the microphone is turned off, chairman of representing the microphone to open it. Chairman normal mode: after the chairman microphone presses the priority key, all the representative microphones are turned off but can be freely turned on. Automatic shutdown (a. Off) : you can choose whether the microphone will be automatically turned Off within 45 seconds after speaking. Chairman music cue is optional: you can choose to have or not to have.

Project configuration

| The name of the | Model | Number | Note |
|-----------------------------|-------|--------|---|
| Master machine | | | |
| The chairman of the machine | | | |
| On behalf of the machine | | | |
| Frequency shift unit | | | It can be selected according to the environment |
| The power amplifier | / | | According to the needs of customers |
| mixer | / | | According to the needs of customers |
| The speakers | / | | According to the needs of customers |