



INSTALLATION AND OPERATING MANUAL

ICS Professional

Conference System



PART I Safety Operation

1.1 Safety Operation

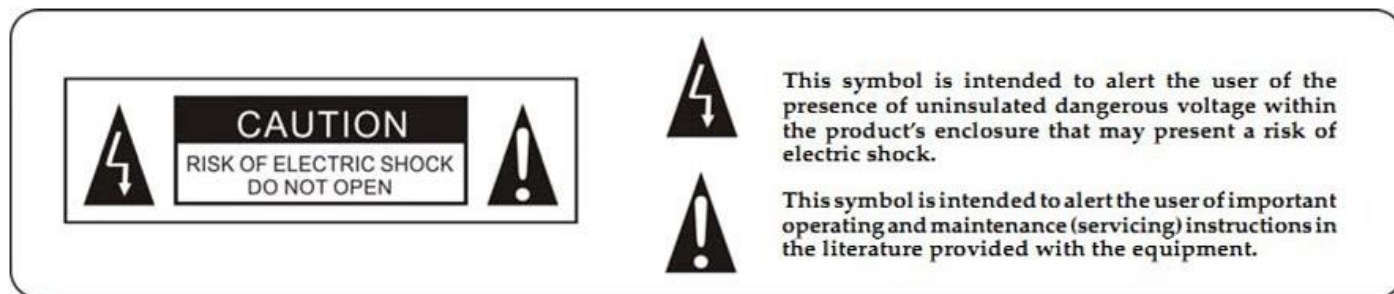
Firstly, thank you very much for using our conference system. To make sure safety of equipment and user, please read this safety instruction carefully before installing and using, and operate seriously according to this manual. Also please keep this safety instruction for future reference. Notices are as below:

1. Read this manual carefully before installing and using. And keep it for further reference.
2. Wiring during installation must follow national electric safety standards, national fireproofing regulations and all related local regulations.
3. Protect the power cord from being walked on and do not stack things on the power cord, particularly at plugs.
4. To make sure earth wire connecting well, using the three-flat grounding plug. Do not use 2- pin plugs.
5. Power supply cords:
 - America, Japan: AC 110 V~120 V 60 Hz
 - Asia, Europe: AC 220 V~240 V 50 Hz
6. The packaging of equipment is designed for protecting 1.5 meters dropping, but please prevent from stress and shocking during transportation, installation and storing.
7. Do not place the system equipment on too cold or too hot room.
8. The power supply of the equipment will generate heat during operation. Therefore, to maintain good ventilation in the working environment, there should be a minimum of 20cm or more around the equipment; the ventilation holes should not cover items such as newspapers, tablecloths and curtains to prevent ventilation, so as to avoid high temperature.
9. Unplug the system during wet weather or when unused for long periods of time.
10. Do not touch the power plug with wet hands, which may cause the danger of potential electric shock.
11. Hold the power cord plug when unplugging from the power outlet. Do not pull the power cord. The damaged power cord may cause a potential fire or electric shock.
12. Do not scratch, bend, twist, pull the power cord or heat it; do not hang or rotate heavy objects (including the unit) on the power cord. The damaged power cord may cause fire or electric shock.
13. If the power supply is damaged (such as cutting or bare wires), please ask your dealer to replace it. If you use a damaged power cord for this unit, it may cause fire or electric shock.
14. In the event of a drop or damage to the unit, turn off the power switch, unplug the power cord from the AC outlet, and contact your dealer. If you continue to use the unit without paying attention to it, it may cause a fire or electric shock.

15 .Must unplug the equipment before below operations:

- Taking down or resetting any part on machine
- Reconnecting any plug in system

Do not disassemble or maintain the product by non-authorized personnel to avoid accident or damage. Warning label is as below.



Note: This product is suitable for areas below 2000m above sea level!

17. Do not spill any chemicals or liquids on or near the equipment; The equipment should not be subjected to water drops or splashing; Items filled with liquid, such as vases, should not be placed on equipment
18. Be sure to keep the unit away from the following locations:
 - Suffering from oil splashes or vapors, such as near kitchen stoves, humidifiers, etc.
 - Unstable surfaces, such as a shaking tabletop, beveled surface.
 - Locations subject to excessive heat, such as in a car with a closed window, or in a location subject to direct sunlight.
 - Locations subject to excessive moisture or dust.
19. When the device is not used for a long time, please turn off the power, preferably unplug the power plug.
20. Please thoroughly check the connection of the system to ensure that the host power can be turned on when it is correct. Check whether the settings of the host are correct before use and whether the site usage requirements are met.
21. This equipment is a Class I device, the equipment should be connected to a mains power outlet with a protective earth connection.

PART 2 System introduction

2.1 Brief introduction

ICS Professional series Full Digital Conference System adopts Intrend original ADCS(ALL Digital Conference System) full digital audio transmission technology with independent intellectual property rights.

The conference microphone units in the system are connected through 6-pin cables, which is easy to install and maintain. ICS Professional series full digital conference system is composed of conference controller, conference microphone unit, high-speed camera, professional connection cable and software. The conference unit has the chairman unit, the delegate unit, etc. The software consists of multiple software modules.

The following is a list of ICS Professional series full digital conference system models and names.

ICS Professional series full digital conference system		
Full digital conference controller		
System controller	ICS-PRO-CU ICS-PRO-CUEXT	
Conference microphone unit		
Chairman unit (no screen)	ICS-PRO-MC	
Delegate unit(no screen)	ICS-PRO-MD	

Chairman unit (screen)	ICS-PRO-MCS	
Delegate unit (screen)	ICS-PRO-MDS	
Conference management software		
Professional conference management software	ICS-PRO-SW	

PART 3 Full digital system controller

3.1 Overview

The full digital conference controller is the core component of the Intrend conference system. It is an important bridge to realize the communication with the conference microphone unit and the function module of the PC management software. Through the navigation knob on the front panel, working with a 5.0-inch 480×854 graphic with 16.7M color IPS touch screen, all conference functions can be centrally controlled.



Figure 3.1 Full digital conference controller ICS-PRO-CU

3.2 Function and feature for ICS-PRO-CU

- Original ADCS full digital conference technology, which comply with IEC60914 international standard.
- Five microphone management modes (Support speaking microphone 1 ~ 6)
- The controller can be setup as a system controller, backup controller, or extension controller.
- The controller supports dual backup function.
- The controller supports 16/32/64 channel simultaneous interpretation.
- Supports DANTE input and output
- Built-in noise door.
- Microphone can be set to volume gain adjustment or automatic gain adjustment.
- The microphone has bass cutting function
- The line 1 input interface can be set as microphone input or linear input.
- The line input and output have independent volume adjustment.
- The controller has conference audio matrix technology. And it has built-in an n×8 audio matrix processor. It can divide any number of microphones into 8 zones and output up to 8 independent audio groups. It effectively avoids the problem of microphone feedback.
- It has 6pcs 6PIN interfaces. You can set up to connect the interpretation console or conference microphones
- The controller can connect computer, central controller and HD video matrix.
- It supports video tracking for up to 8pcs cameras.

- It supports up to 100 delegate requests for speech sequences, and real-time display on PC software.
- VIP microphone units can be designated. And it supports 100 chairman units.
- Working with the conference management software, it has one-click backup and restoration function.

3.3 Technical Parameters

Parameter Mode	ICS-PRO-CU
Working power	AC100—240V, 50/60Hz, 4A
Power consumption	Single 6W /Max 320W
Display screen	5.0 inches/ 480×854 Graphic dot matrix/ 16.7M color IPS Capacitive touch screen
Single-channel capacity	15pcs Conference Microphones
System capacity	The system has a capacity of 100 multi-functional conference units and can be expanded to 4,095 units
Transmission distance	Max 150M
The output interface voltage of the unit	24V
Audio input	RCA x 1 11dBV; XLR x 1 11dBV
Audio output	RCA x 1 10dBV; XLR x 1 16dBV
Output impedance	RCA : 650Ω; XLR: 460Ω
Frequency response	20~20KHz
SNR	>90dB
Dynamic range	>90dB
The total harmonic distortion	< 0.05%
Condenser microphone interface	1 Channel
Edit ID No.	Can be customized
Special feature	Supports 1 backup controller; Supports up to max 99 controllers
Serial port control	RS-232 x 2
Working modes	FIVE
Speaking microphones quantity	1~6
Speaking time limit function	YES
Video control mode	RS-422 / RX-485
Microphone connector	6PIN
Camera capacity	8PCS
Color	Black
Net weight	8KG
Dimension	432×90×350 mm
Installation	Suitable for 19-inch standard racks

3.4 Schematic diagram of front panel and back panel

3.4.1 Diagram of Front Panel for Conference controller ICS-PRO-CU

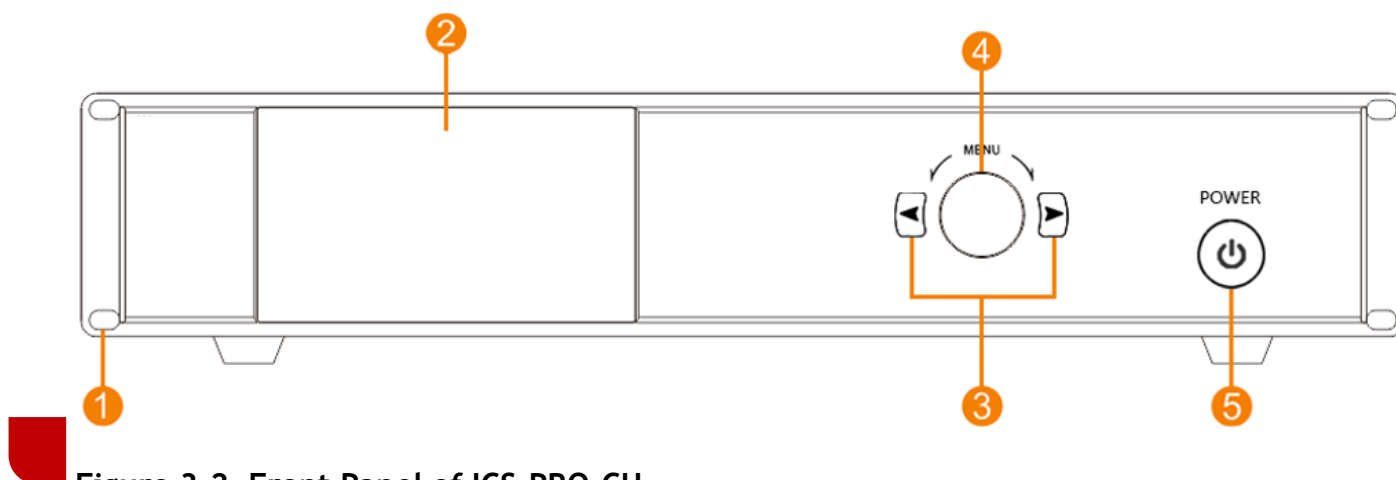


Figure 3.2 Front Panel of ICS-PRO-CU

1. Mounting hole for 19 inch stand
2. 5-inch touch screen of system controller
3. Down key or back key of the system controller.
4. Control knob: Turn left or turn right to move cursor. Press it to confirm.
5. Power switch, with power indicator.

3.4.2 Diagram of Back Panel for Conference controller ICS-PRO-CU

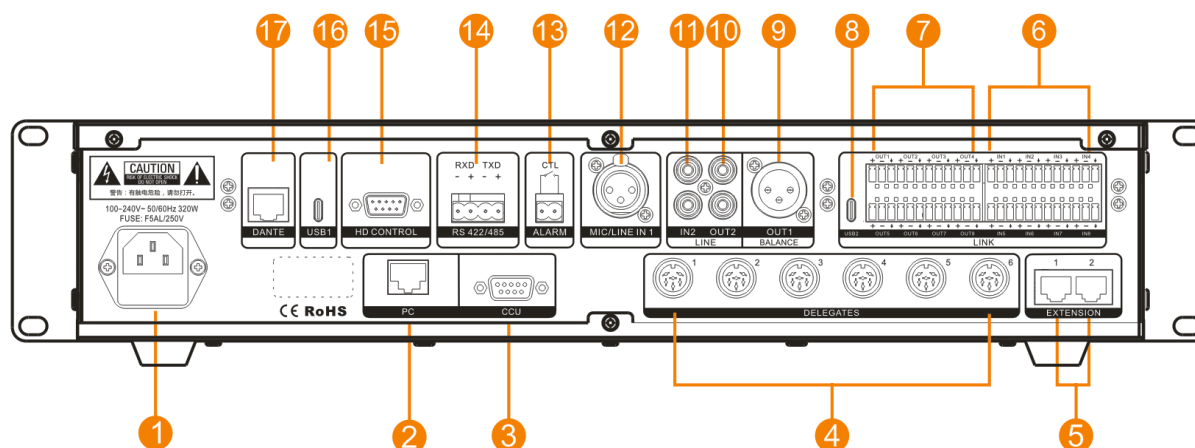


Figure 3.3 Back Panel of system controller

1. Power interface : Input 100-240V~ 50/60Hz 320W
2. RJ45 interface, used to connect the computer through TCP/IP protocol for remote control
3. CCU : RS232 central controller connector,used to connect the central control system.
4. DELEGATES: 6pcs conference unit connectors
5. EXTENSION : RJ45 extension connector, used to connect other controllers.
6. LINK: audio matrix partition, multi-channel audio input
7. LINK: audio matrix partition, multi-channel audio output
8. USB2: Connect to the computer for multi-channel audio recording, or realize automatic voice recognition function with corresponding software
9. BALANCE OUT1 : balance Cannon audio output connector
10. LINE OUT2 : RCA audio output connector
11. LINE IN2 : RCA audio output connector
12. MIC/LINE IN1 : balance cannon connector, can be set as external microphone input or balance linear input.
13. ALARM: Emergency broadcast signal interface. The alarm triggering mode can be set as high level triggering, close trigger, or close alarm.
14. RXD/TXD : RS422/RS485 connector, used to connect the cameras.
15. HD CONTROL : HD video matrix control connector.
16. USB: Connect the computer to realize the digital audio signal input and output function.
17. DANTE: Connect to DANTE network, input and output audio signals

PART 4 Full digital conference unit ICS Professional

4.1 Overview

The delegate unit enables the participants to discuss effectively. And the participants can control the speech of the conference unit by switching buttons. With the high-speed PTZ camera, the automatic video tracking function can be realized and the images of the speakers can be displayed dynamically in real time.

In addition to having the same function as the delegate unit, the chairman unit also has the "priority" function of the meeting. The chairman can turn off all the microphones by the "priority" button.



Figure 4.1 Full digital conference unit ICS-PRO-MDS / ICS-PRO-MCS

4.2 Overview

- Original full-digital conference technology. It complies with the IEC60914 international standard.
- Adopt high-speed RISC embedded digital processing hardware architecture. The system operation speed is improved and the system stability is ensured.
- The appearance is simple, stylish and noble, which is an ideal equipment for high-end conference rooms.
- Fully digital audio processing and transmission technology. The sound quality will not be attenuated after long-distance transmission. The distance between devices can reach 150 meters
- It has multiple connection methods such as "Y-type line hand in hand" and "ring hand in hand"
- The system has the "Hot plugging" function with power on.
- Adopting AI intelligent automatic noise reduction processing technology. The environment deep noise reduction suppression reaches 25dB, and the adaptive feedback suppression relative gain reaches 18dB
- It has AI intelligent feedback suppression and noise reduction function (ON/OFF and 6 degrees). It can meet the application needs of different conference scenarios.

- Each unit has an arbitrarily assigned ID address, which is convenient for installation and avoids ID address duplication.
- Five microphone working modes
 - Quantity limit mode: 1 to 6 units are allowed to be speaking at the same time
 - First-in-first-out mode: after reaching the limit, the last turned on unit covers the first turned on unit
 - Speech application mode: all delegate speaking, and the executive chairman unit rejects or approves
 - Voice control mode: turn on the unit by voice control, and the voice control threshold can be adjusted
 - Button speaking mode: press the switch button to turn on the unit
- Working with the video tracking camera, the video tracking function can be realized by preset
- The goose neck microphone has highly directional electret microphone and a red speaking indicator light.
- The square base is made of zinc alloy. It's a simple and exquisite overall design that conforms to ergonomics.
- It has super anti-mobile phone interference ability

4.3 Technical Parameters of conference unit

Parameter Mode	ICS-PRO-MCS / ICS-PRO-MDS
Microphone type	Chairman / Delegate unit
Frequency response	20-20 KHz
Microphone sensitivity	-48dB
SNR	110dB
Dynamic range	110dB
Sound pressure level	138dB
The total harmonic distortion	<0.05%
Working voltage	24VDC, $\pm 5\%$
The maximum power consumption	1W
Connector	Lockable 6PIN
Dimension	95x138x49mm
Color	Black
Installation	Tabletop

4.4 Conference unit functional description

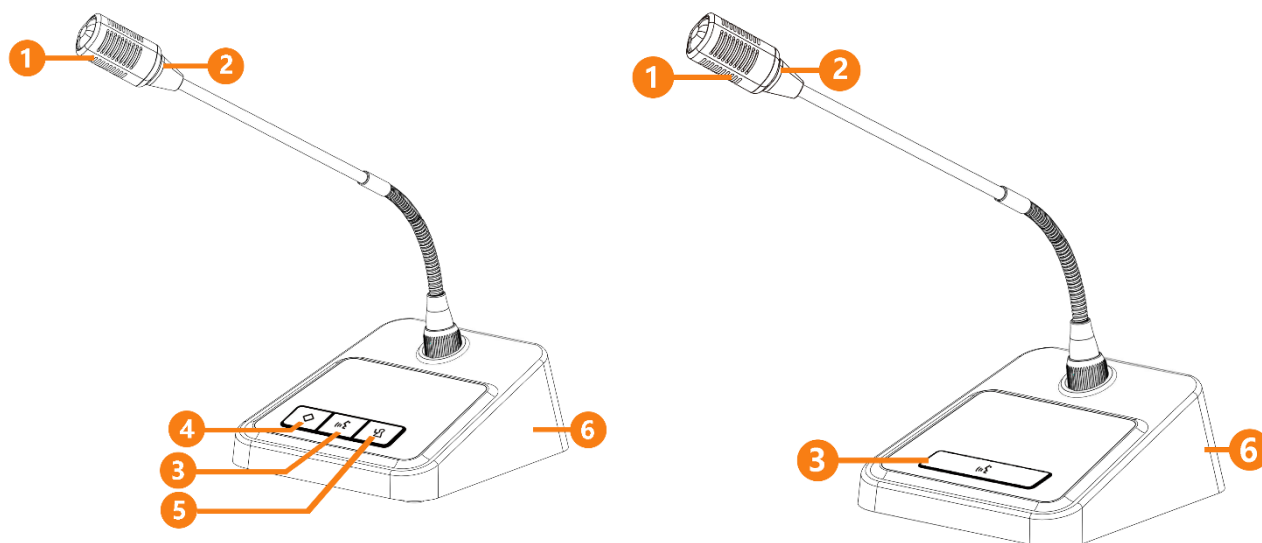
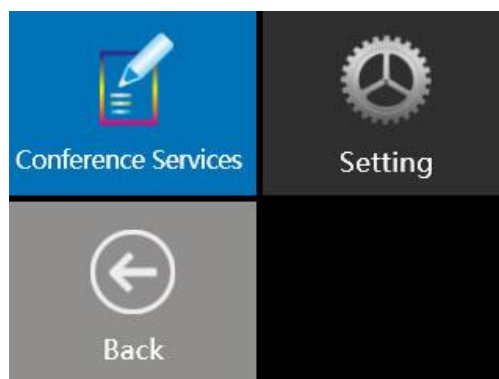


Figure 4.2 Chairman conference unit ICS Professional functional description

1. Microphone pick up
2. Speaking indicator
3. Microphone ON/OFF key
4. Priority key
5. Approval key
- 6 . Weighted alloy base

4.5 Operating Instructions for the Conference Microphone

Participants can setup some functions on the conference microphone touch screen, such as Conference services and Settings. The main operation interface is as follows.



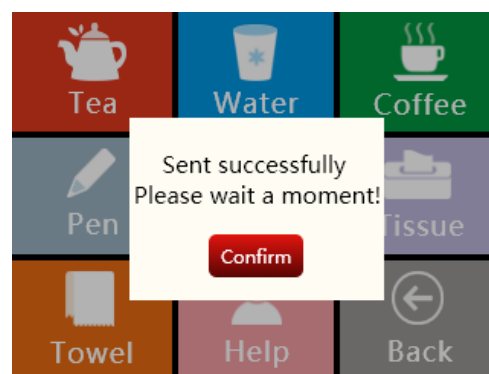
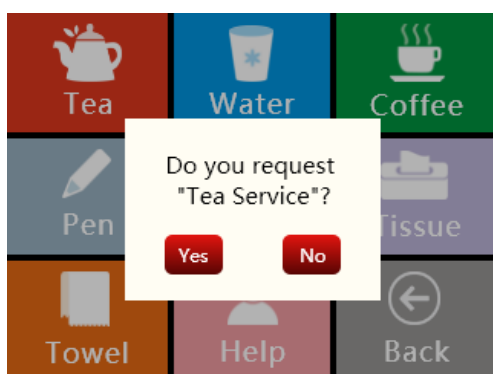
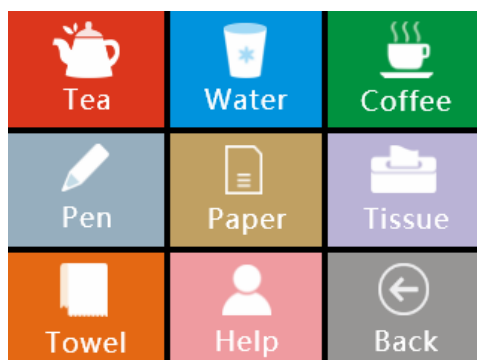
Conference services include calling for Tea, Water, Coffee, Pen, Paper, Tissue, Towel and Help, etc.



Settings include Numbering, Contrast and Language.

4.5.1 Conference services

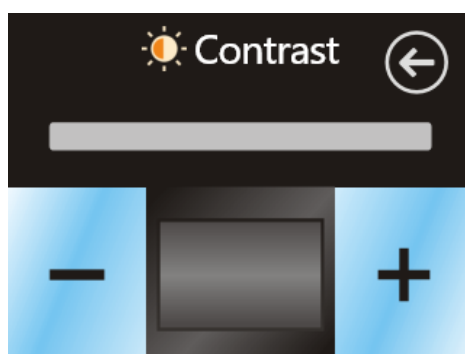
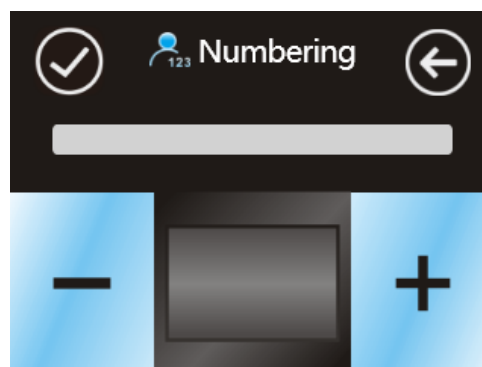
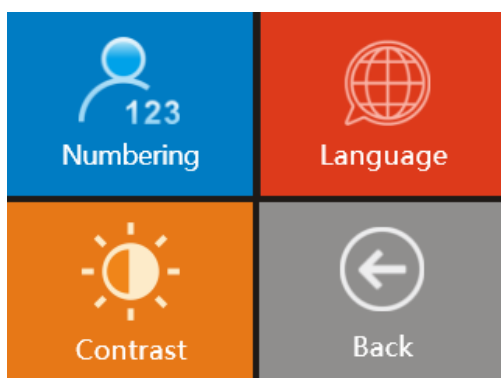
Conference services include calling for Tea, Water, Coffee, Pen, Paper, Tissue, Towel and Help, etc. The operation interface is as below.



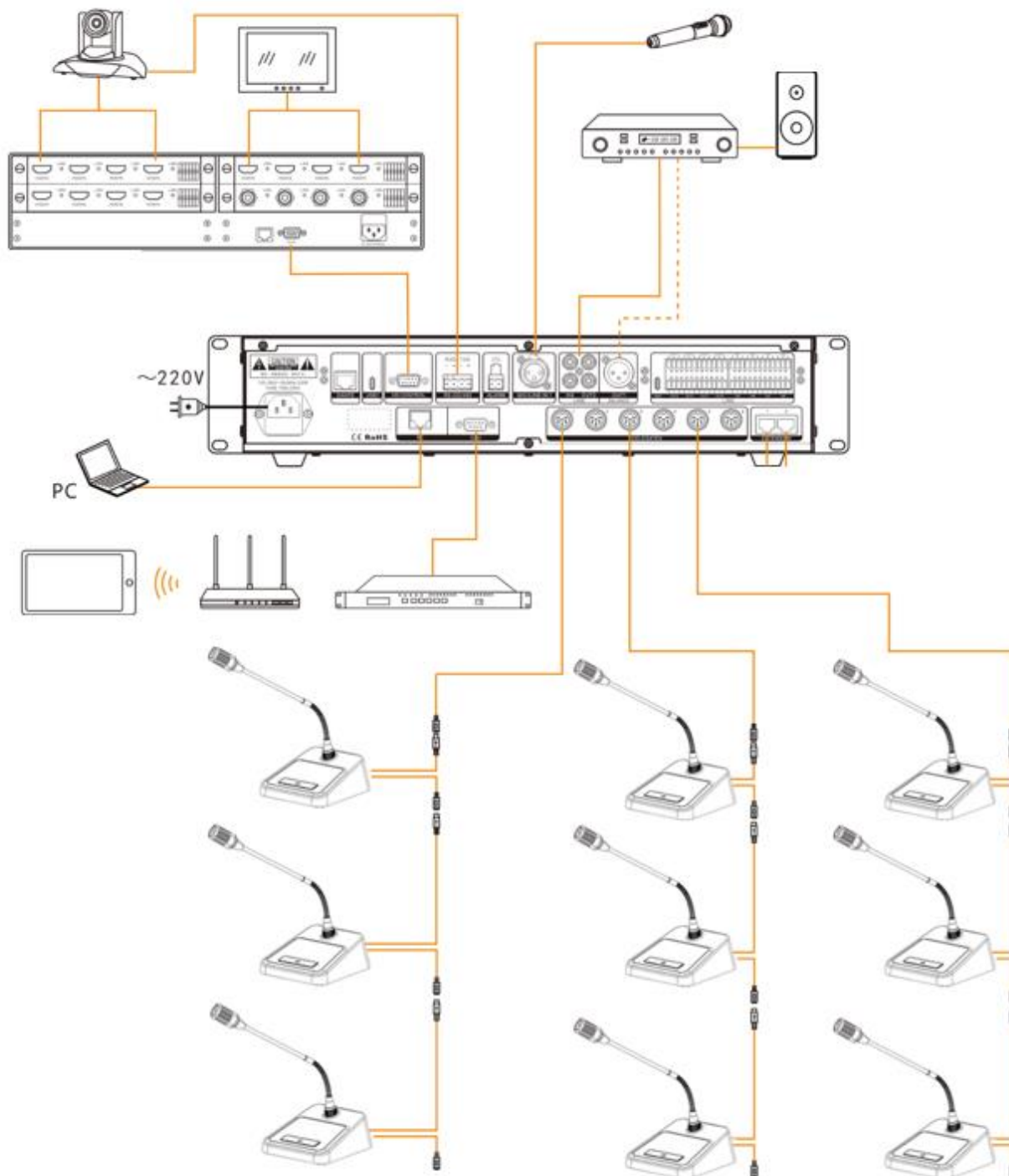
4.5.2 Setting

Numbering: It refers to numbering the conference units for management purposes

Contrast: Set the contrast of the LCD screen

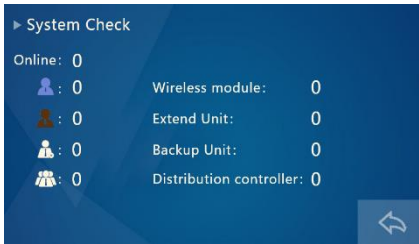


PART 5 Installation and Connection



PART 6 Setting and Operation of Digital Conference System

6.1 New machine debugging

No.	Operation steps	Description	Remarks
1	Connect all conference equipment with cables		According to the system connection diagram
2	Turn on the controller power switch		
3	The controller checks the whole conference system automatically		A: Microphone unit checklist:  Executive chairman  Chairman unit  VIP  Delegate unit B: Controller checklist: Wireless module, Extend unit, Backup unit and Distribution controller.
4	The controller enters into standby interface		In the standby interface, the  icon indicates the working mode of the current host, the "First number" represents the total number of conference units, and the "Second number" represents the number of conference units that have been turned on.  The icon indicates the number of online units.  The icon indicates the number of offline units Press  to enter the working mode Settings interface
5	Define controller properties	Set the controller as 1. System controller; 2. Backup controller; 3. Extension controller	The following steps are not required for setting the controller as a Backup controller or an Extension controller
6	Set the ID number of the controller	Define the system controller ID number	
7	Set the number of units	Set the minimum unit number and maximum unit number	
8	Set the number of units	Start Numbering	For each unit, press to obtain the ID number
		End Number	
9	Setup working mode	Set the working mode of the venue unit. A total of five modes are available	Press  to enter the working mode Settings interface
10	Adjust the input and output volume	Set input volume and gain, and output noise gate	
11	Microphone settings	Set digital hand-in-hand, sensitivity correction, EQ, speaking time, unit attributes, etc	

6.2 Operating instruction

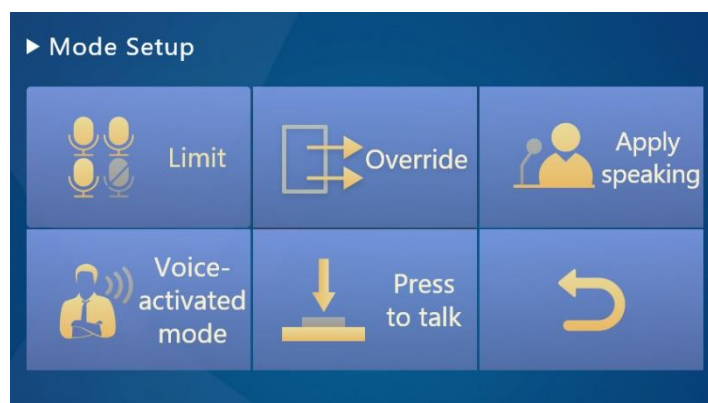
6.2.1 Standby interface

After turning on the power of the conference system controller, the display screen shows the main startup interface. The icon at below indicates the current working mode.

Clicking on it and enter the working mode Settings interface. The icon and the number at the lower right corner indicate the current number of online and offline units. Clicking on the "INTREND" LOGO position on the screen will enter the input and output Settings interface.

6.2.2 Working mode

On the system standby interface, click on the icon at the lower left corner of the screen to enter the working mode settings interface.



Working mode: Set the working mode of the venue unit. There are total five modes: Quantity limit, Override (first-in, first-out), Apply speaking, Voice activated mode and Press to talk . Select the number of microphone units that can be turned on simultaneously from the numbers 1 to 6 on the right.

Quantity limit: Set the quantity limit for the number of microphone units. The number of units that can be turned on simultaneously is 1 to 6. When the number of activated conference units reaches the preset number, other conference units enter the state of applying to speak. When the activated microphone unit is OFF, the first microphone unit to enter the application state will be ON.

Override (First-in, first-Out): Set the number of Override microphone units. The number of meeting units allowed to be activated simultaneously is 1 to 6. When the number of activated

microphone units reaches the preset quantity, the last activated microphone unit will override the earliest activated one.

Apply speaking: Delegate units press the microphone power button to apply for speaking. The number of microphone units that can be activated simultaneously is 1 to 6. The speaking application is approved or rejected by the Executive Chairman unit with control function in the system.

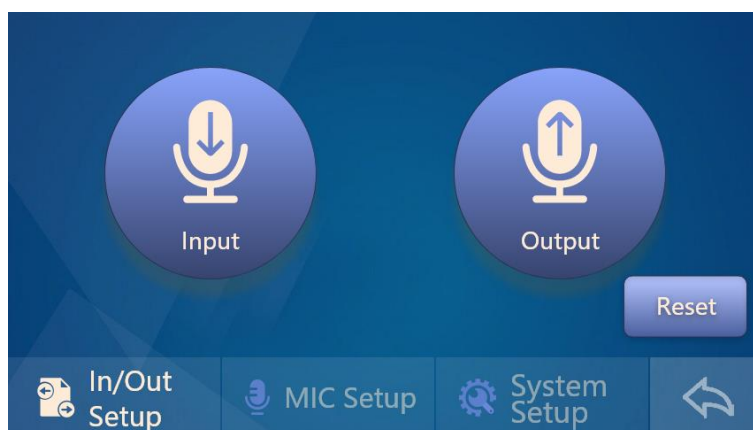
Voice activated mode: According to the Settings, the conference unit can be automatically activated once representative is speaking.

- **Activated voltage:** Set the activated voltage value for voice activated mode. The activate voltage indicates the sound pressure at which the microphone is activated. The higher the activated voltage, the greater the activated sound pressure. In Voice Activated mode, the human voice must be greater than the set activated voltage to trigger and turn on the microphone. Parameter range: 4 to 480mV.
- **Activated delay:** Set the time which a certain volume of sound needs to be maintained before activating the microphone unit. (unit: milliseconds). The greater the activated delay, the longer the required activated sound pressure holding time. Parameter range: 4 to 480 ms.
- **Microphone turned off delay:** Set the microphone turn off delay time. (unit: seconds). The microphone turned off delay indicates the time within which the conference microphone is turned off after the activated voltage is not detected. Parameter range: 2 to 20 seconds.

Press to talk: Set the number of microphone units that can be pressed simultaneously for speaking. The number of microphone units that can be activated simultaneously is allowed to be 1 to 6. When the delegate unit is speaking, press the microphone power button long to keep turning on the microphone for speaking. Release the button to turn off the microphone.

6.2.3 Input and Output

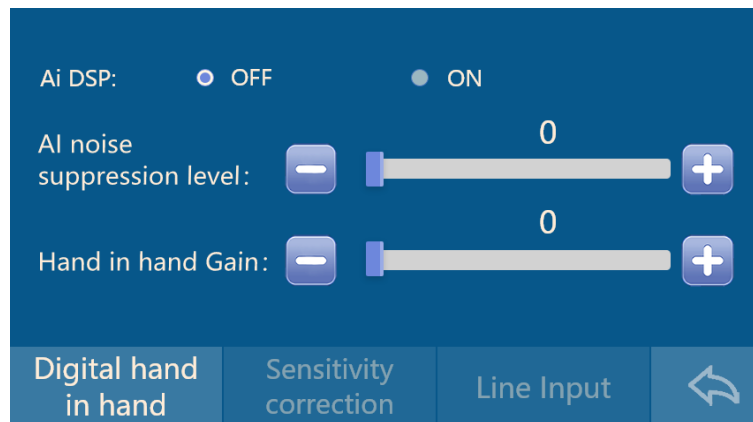
On the system standby interface, click on the "INTREND" logo on the screen to enter the Input and Output settings interface



- A. On the input and output Settings interface, click  the input icon to enter the input settings interface.

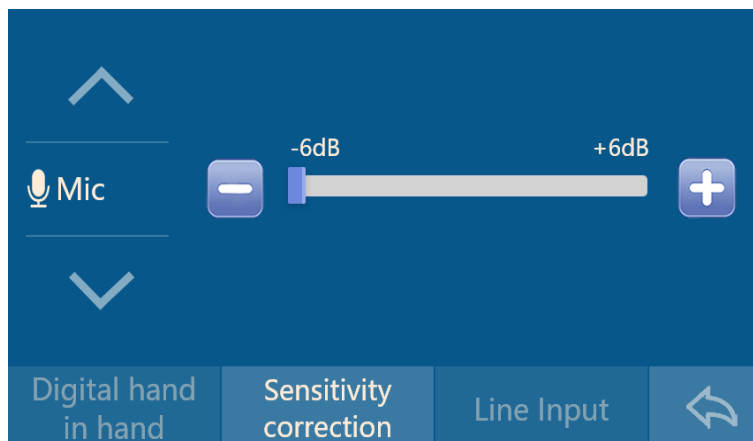
1. Digital hand-in-hand interface

Set the ON/OFF of the AI DSP, as well as the level of AI noise suppression and the gain range of the digital hand-in-hand. See below picture:



2. Sensitivity correction interface

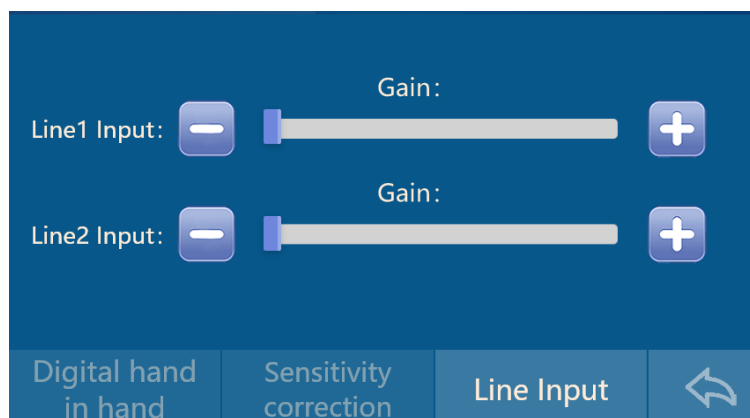
Adjust the input gain of the microphone separately, with the gain parameter range being from -6 to +6dB

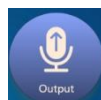


3. 3. Output Noise Gate interface

Set the input volume of Line 1 to MUTE, or from -6 to +12dB

Set the input volume of Line 2 to MUTE, or from -12 to +6dB

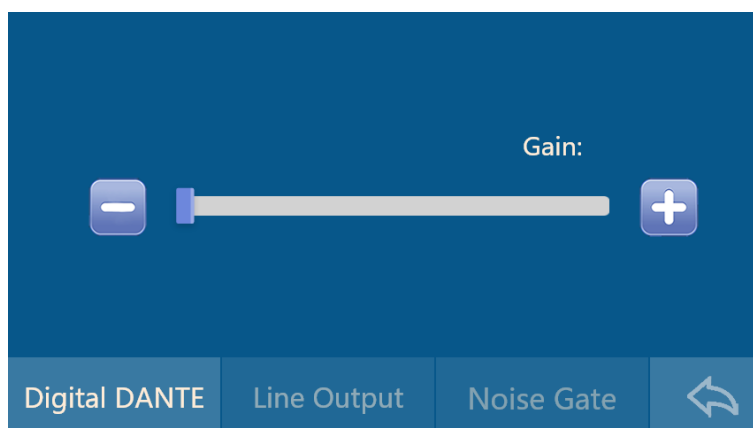




- B. On the input and output Settings interface, click the output icon to enter the output Settings interface

1. Digital DANTE interface

Set the sensitivity and gain of the digital DANTE input. The sensitivity parameter range is MUTE, or from -12 to +6dB, and the gain parameter range is MUTE, or from -12 to +6dB

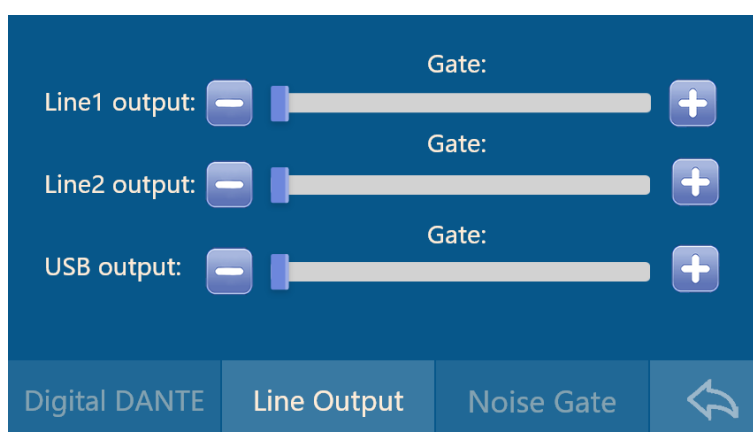


2. Line output interface

Set the output volume of line 1 from -57 to 0dB

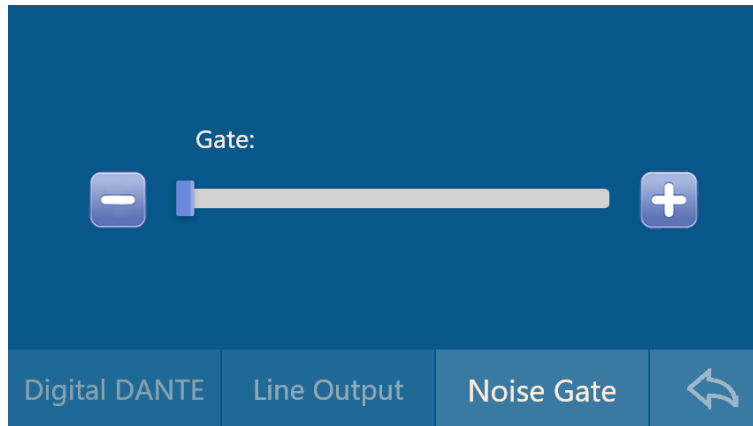
Set the output volume of line 2 from -57 to 0dB

USB sound card output volume: setting USB sound card output volume: MUTE/-12/-9/-6/-3/0/+3/+6dB



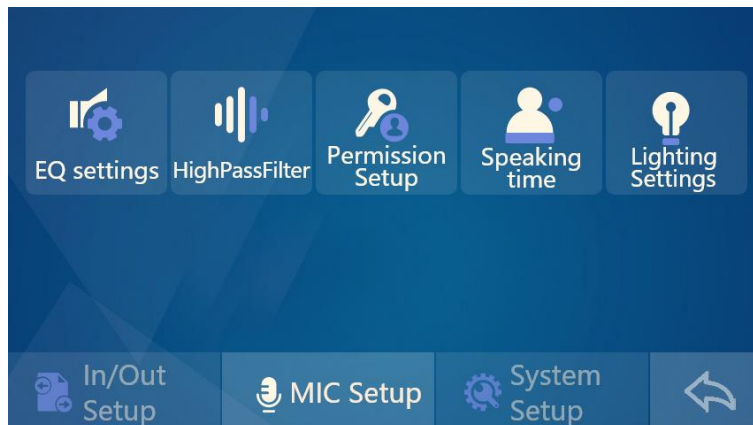
3. Output Noise Gate interface

Output Noise Gate: Set the output noise gate threshold, parameter range: -54dB to -84dB, OFF. When the parameters are -54, -60, -66, -72, -78, or -84, it indicates that the system will automatically mute when the output signal amplitude is less than the set value. When the parameter is OFF, it indicates that the "Output Noise Gate" function is turned off.



6.2.4 MIC Setup

On the system standby interface, click on the "INTREND" logo on the screen to enter the Input and Output Settings interface. Then click on the icon  to enter the MIC Setup interface. The MIC Setup includes EQ Settings, High Pass Filter, Permission Setup, Speaking time and Lighting Settings.



1. EQ settings interface

Set different microphone EQ for different speakers to achieve the best speaking effect.

No Action: No setting commands are sent.

All MICs: Set the EQ of all microphone units.

Activate MICs: Set the EQ of all the activate microphone units.

EQ1 frequency: 80Hz/105Hz/135Hz/175Hz.

EQ2 frequency: 230Hz/300Hz/385Hz/500Hz.

EQ3 frequency: 650Hz/850Hz/1K1Hz/1K4Hz.

EQ4 frequency: 1K8Hz/2K4Hz/3K2Hz/4K1Hz.

EQ5 frequency: 5K3Hz/6K9Hz/9KHz/11KHz.

The adjustable amplitude parameter range of EQ1 to EQ5 is from -12dB to +12dB.



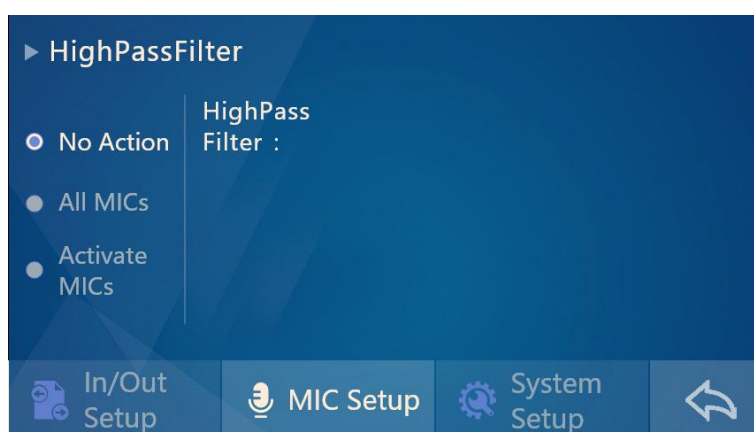
2. High Pass Filter interface

High Pass Filter: The bass cut function can be turned on or off. When the bass cut function is enabled, you can choose to cut the bass at frequencies below 122Hz/153Hz/196Hz/245Hz.

No Action: No setting commands are sent.

All MICs: Enable the bass cut function for all conference units in the system.

Activate MICs: Enable the bass cut function for all activated conference units in the system.



3. Permission setup interface

VIP settings: Set the delegate microphone unit with the ID number XXX as VIP. After setting VIP to "Activate", press the delegate microphone unit speaking button to set that unit as VIP. When activated, it indicates that the green or red light (depending on the lighting Settings) of the unit flashes. After the Settings are completed, the yellow light of the VIP unit will remain on (the next time it is used, the yellow light of the VIP unit will still remain on). When the VIP speaks, the microphone unit indicator light will change to red or green according to the light Settings.

When canceling the VIP setting of a delegate microphone unit, first click "Cancel", then press the speaking button of the delegate microphone unit whose VIP setting is to be canceled. If the yellow light of the delegate microphone unit goes out, it indicates that the VIP setting of that delegate microphone unit has been canceled.

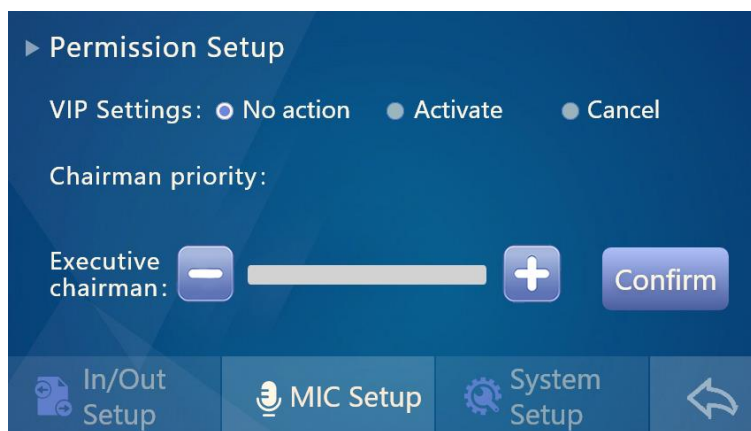
Chairman Priority: The function of setting the priority button for the chairman unit.

All turned off: Press the Chairman Priority button to turn off all the activated delegate microphones.

Mute all: Press the Chairman Priority button, and all the activated delegate microphones will be muted.

Invalid: Setting the Chairman priority button is invalid.

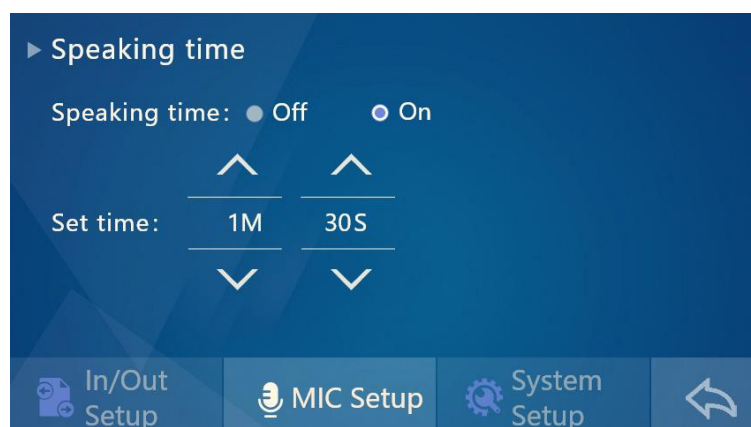
Executive Chairman: Set the chairman microphone unit with the ID number XXX as the Executive chairman. Select the ID number you want to change to the executive chairman and press the Confirm key to set it. Only one executive chairman can be appointed.



4. Speaking time interface

Set the speaking time for delegate microphone units and the prompt time before the end.

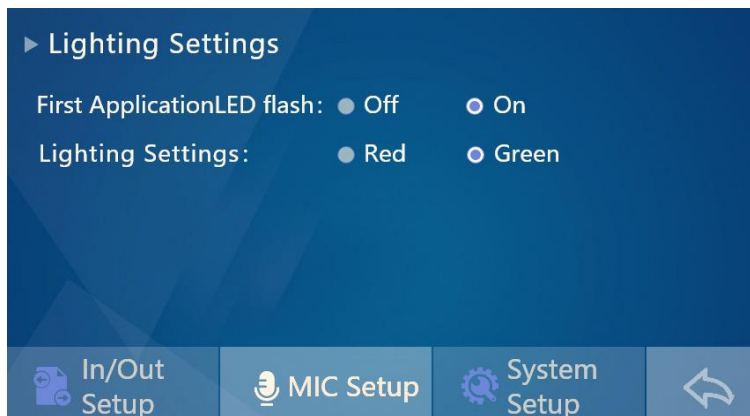
Speaking time: Set a speaking time limit for each unit. When the speaking time is "off", it indicates that there is no limit to the speaking time. The speaking time is "on". You can set the speaking time. The maximum speaking time is 99 minutes and 59 seconds.



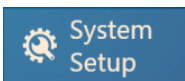
5. Lighting Settings interface

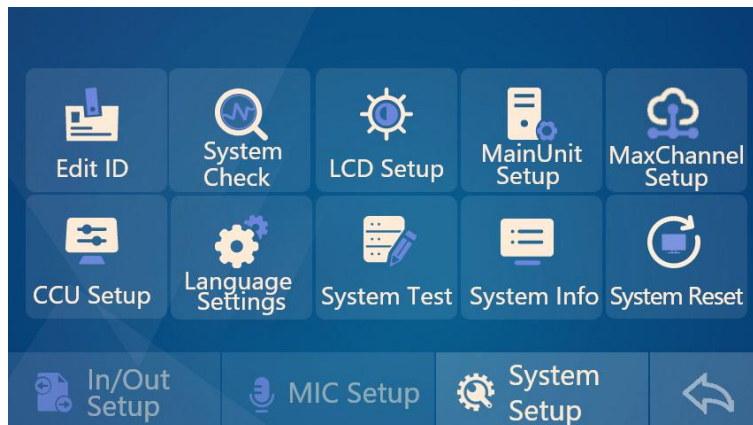
Lighting Settings: Set the color of the light when the microphone is turned on

First Application LED flash: Set the indicator light of the first conference unit to flash or turn off. It is effective when the working mode is set to Quantity Limit.



6.2.5 System Settings

On the system standby interface, click on the "INTREND" logo on the screen to enter the Input and Output Settings interface. Then click  on screen to enter the system Settings interface. System Settings include Edit ID, System Check, LCD Setup, Main Unit Setup, Max Channel Setup, CCU Setup, Language Settings, System Test, System Info and System Reset.



1. Edit ID

Edit ID includes Edit Unit ID, Assign Unit ID, Main Number and the Local number.

Edit Unit ID: Number the conference units for management purposes.

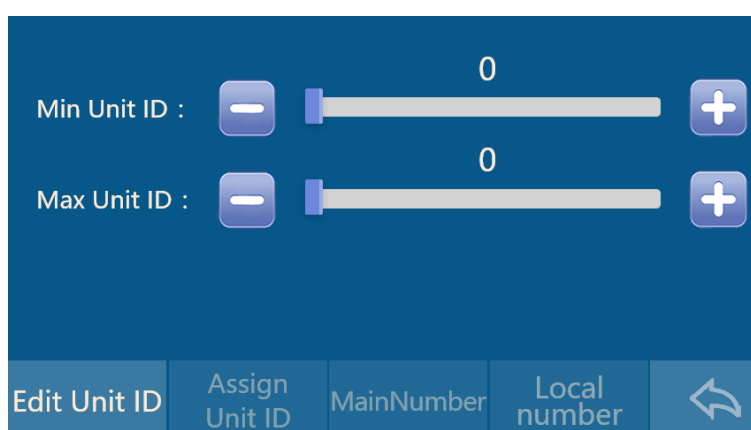
When the "Minimum unit Number" is entered as 0, the system host will number all units by default. After clicking "Start Numbering", all microphone unit ID numbers will be cleared.

For example: Enter "Minimum Unit Number" 0 and "Maximum unit Number" 20, then click "Start Numbering". The system will start numbering from Unit 1 and stop at Unit 20.

When numbering, the indicator light of the conference unit will flash. Press any key of the conference unit one by one to confirm the number. After the number is confirmed, the red LED light of the conference unit will light up. If the number of units is only 3, then after being assigned to Unit 3, click "End Numbering".

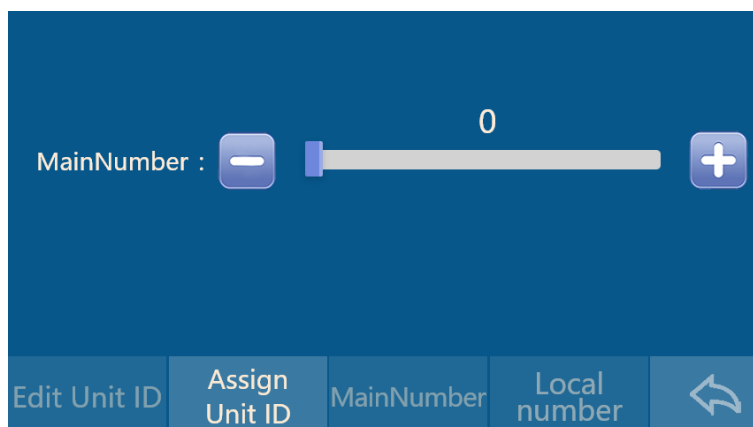
If there are 153 units, set the "minimum unit number" to 0 and the "maximum unit number" to 150 for numbering. After the numbering is completed, there will be 3 units left unnumbered. Then, you can set the "minimum unit number" to 150 and the "maximum unit number" to 153 for renumbering. When numbering, start from 151.

It is also possible to number these three units by using the method of Assign Unit ID.

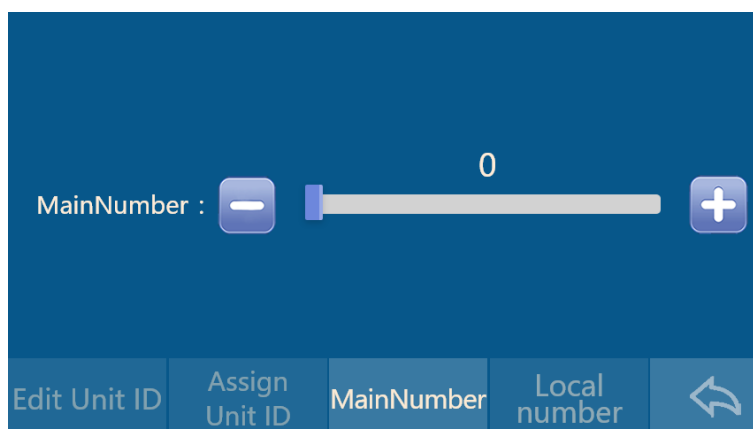


Assign Unit ID: Assign a designated number to the microphone units that are not numbered. That is, assign a certain number to the conference units that have not been numbered.

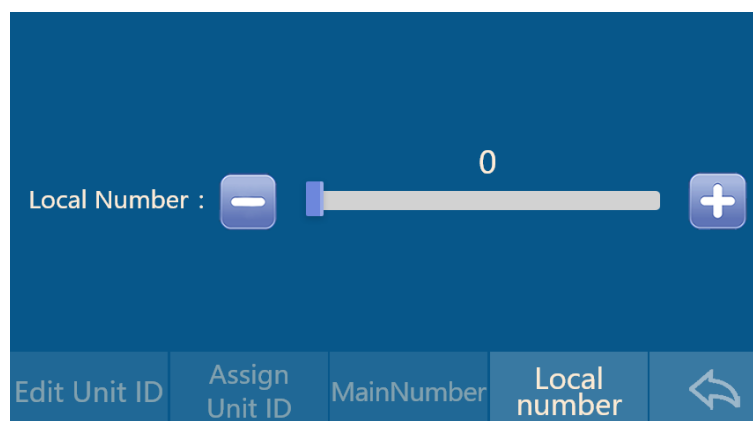
For example: When the conference unit number reaches 100, the numbering ends. If a certain conference unit has not been numbered yet, you can fill in the "Designated Number ID" 101 (the designated number should be greater than the maximum number of the currently numbered unit), and click "Start Numbering" to specify the number. During the numbering process, the indicator light of the conference unit will flash. Press any key of the conference unit to confirm the number. The red LED light of the conference unit will light up. Then click "End Numbering", and the designated numbering is completed. The designated number of the same ID can only be used for one conference unit. Using it for multiple conference units will cause duplicate unit numbers, leading to system anomalies.



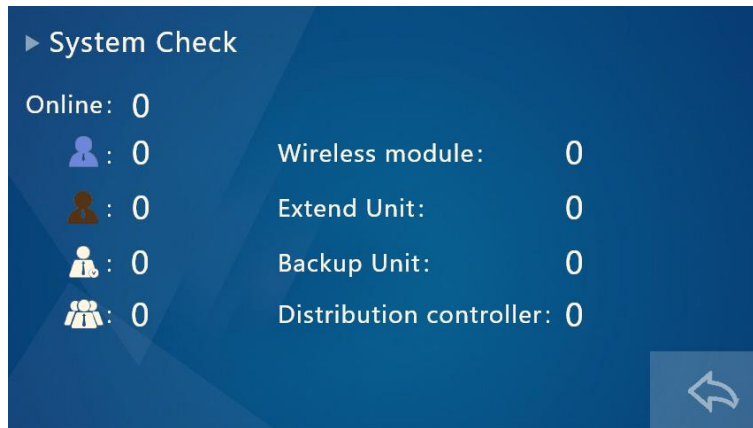
Main Number (The number of hosts): After setting the number of hosts, the dual-channel conference system hosts will scan based on the number of hosts. If the local number of the extension host is 10, the minimum number of hosts should be set to 10; Otherwise, it cannot be detected. The number of hosts set should not be less than the maximum local number in the system. The range for setting the number of hosts: 0 to 99.



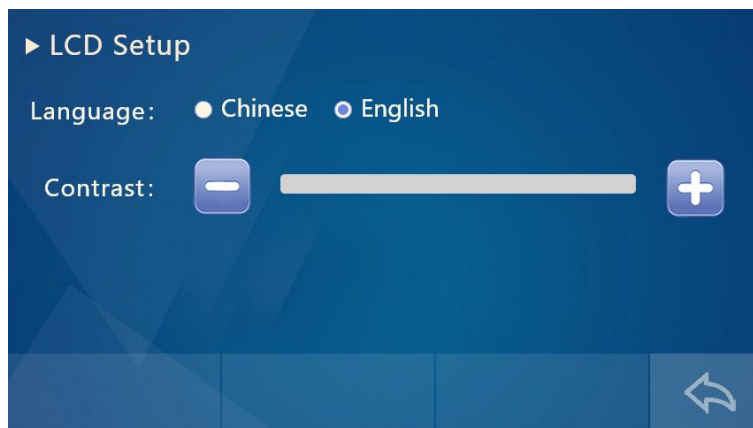
Local number: Set the ID number of this host. In the same system, the local number of each host should be set to be unique. If two or more hosts are set to the same local number, the system will not be able to accurately detect the quantity. The range for setting the number is from 0 to 99.



System Check: System checking is designed to check all hosts and microphone units in the system. Hosts in one system cannot have duplicate numbers, and microphone units cannot have duplicate numbers or be 0; Otherwise, the system cannot accurately detect the quantity.  is the Executive chairman unit;  is the chairman unit;  is the VIP unit;  is the delegate unit; The number of online units is the sum of all the above units.



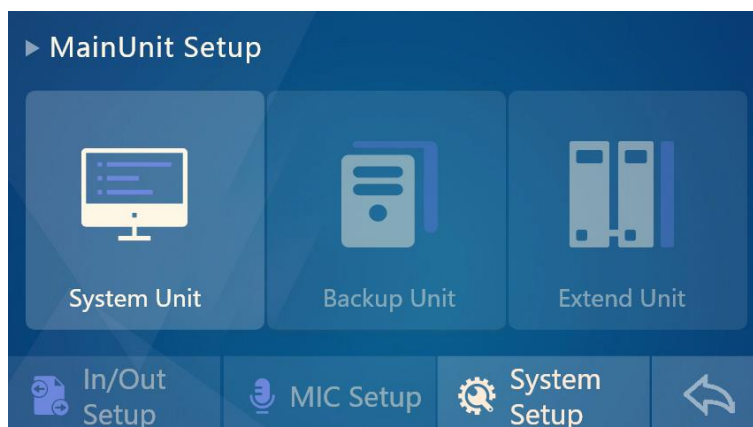
LCD Setup: Set the screen brightness within the range of 5 to 99. The higher the value, the higher the brightness.



Main Unit Setup: This host can be set as a System unit, Backup unit or Extend unit. In one system, only one system host and one backup host can be set. The number of extend hosts can set from 1 to 99.

The Settings of the Backup host should be same as those of the system host. When the system is running, the system host is the primary control. And the backup host is the standby control. All system data will be synchronized to the backup host.

When the system host malfunctions or loses power, the backup host will automatically switch to the primary control to ensure the smooth operation of the maintenance.



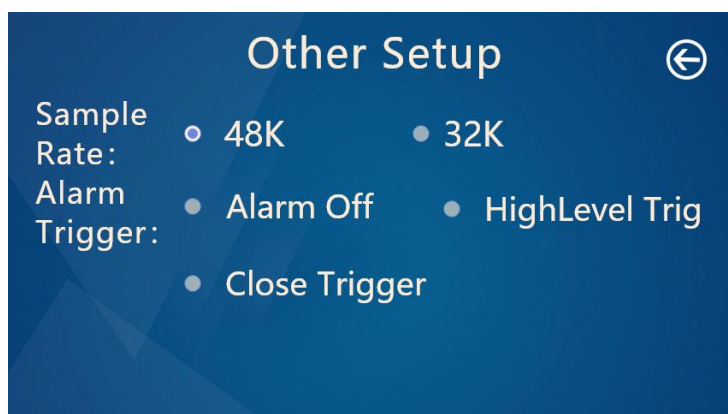
CCU Setup: Set Baud rate for central controller, optional 2400/4800/9600/14400/19200/38400/57600/115200.



Other Setup

Sample Rate: 48K/32K is optional. When different sampling frequencies are selected, the main unit will automatically restart.

Alarm Trigger: This is to set the trigger mode of the alarm interface on the back of the host, which can be selected as Close Alarm Off/ High-level Trig/Close Trigger.

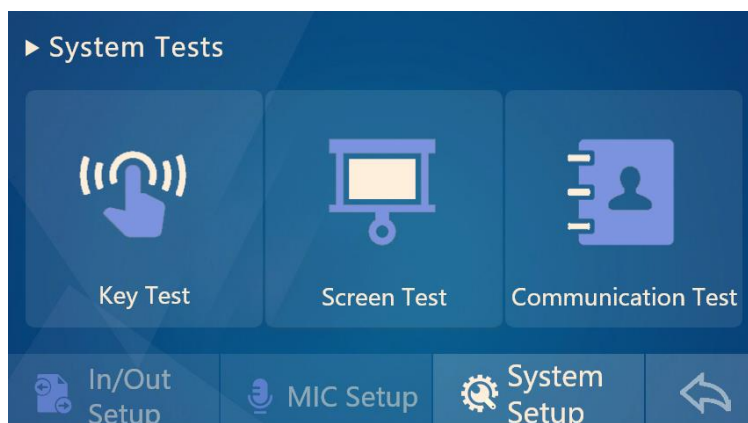


System Tests: Testing of the hosts and microphone units in the system, including: Key Test, Screen Test, and Communication Test.

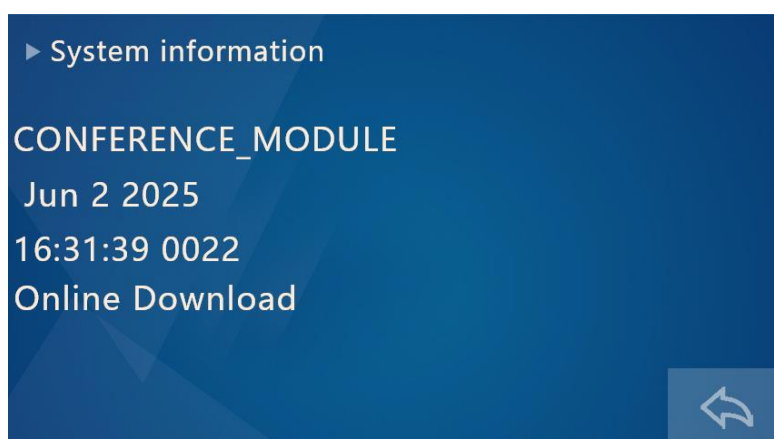
"Key Test" is to test whether the keys of the hosts and units are normal, indicating the key status through the screen or light.

"**Screen Test**" is to conduct screen tests on machine with screens, which can detect dead spots, color differences, etc. on the screen.

"**Communication test**" is to test the data loss situation during the system operation. A data loss of 0/1 is normal; Otherwise, the line needs to be checked.

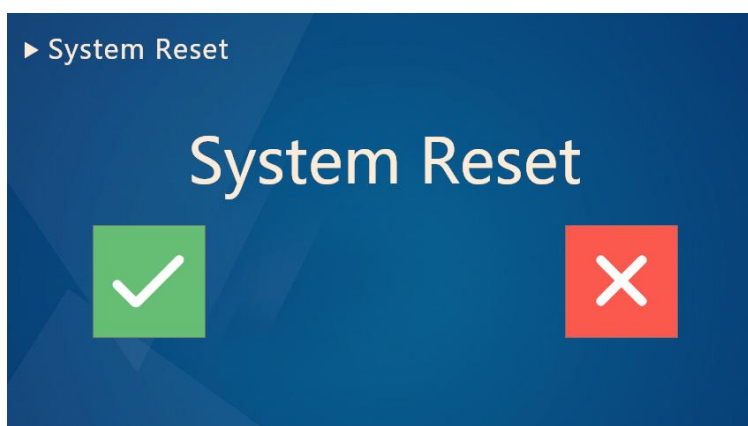


System information: Display the software version number information.



System Reset: Press  to reset the hosts and units in the system. Note: After the system reset, all microphone units will be restored to factory Settings, and all the units need to be re-edit ID

number before using. Press  to exit the system reset.



PART 7 FAQ

In this part, a simple troubleshooting guide is listed to compensate for the results caused by improper use or installation. If there are more serious faults or problems, please contact the technician.

Failure	Reason	Solution
No respond when turn on system controller(Power light is dark)	Power Supply trouble	clear
	plug is not stable	clear
	AC fuse is broken (F5A250V)	replacing
system controller can't edit ID number automatically	Need edit ID number for units	Please press unit "MIC" key, editing ID Number for every unit.
The chairman unit can be turned on, but the delegate unit cannot.	The application mode is activated.	In the application mode, the delegate unit only can speak after getting the approval of the chairman unit
Remarks: The causes and solutions of some common faults are listed above, which are only for reference. If you encounter other faults, please negotiate with the dealer and request technical support.		