NEXIS

User Manual



SM3000WC & SM3000WD Full digital Wireless Microphone

Safely instruction

WARNING

To ensure the reliability of the equipment and the safety of personnel, please observe the following when installing, using and maintaining:

- If any of the following conditions are found, please immediately turn off the power, plug out and quickly contact your nearest dealer. Do not continue using this unit, which may cause a fire or electric shock.

  - If you find smoke or have a strange taste from the machine.
  - If water or metal falls into the machine.
  - If the unit is dropped or the case is damaged.
  - If the wire is damaged (wire core exposure, broken wire, etc.).

- If the machine contains high-pressure parts, in order to avoid the fire or electric shock, absolutely don't open the case, if any questions please inform your nearest dealer.
- Do not place cups, bowls, vases or metal and other water-filled substances on the unit. Serious spilled liquid may cause a fire or electric shock.

- Never expose the unit to rain and any moisture or water, which may cause electric shock or fire.

- Do not place metal objects or flammable materials from the vents on the machine cover, nor place coins, which may cause fire or electric shock.

- Do not place heavy objects on the unit to avoid personal injury or property damage when the unit is slipping.
- Make sure that the volume is turned on at the beginning of the boot, and the high volume of the boot may cause hearing problems.

- Make sure that the volume is turned on at the beginning of the boot, and the high volume of the boot may cause hearing problems.

- For long-term accumulation of dust to be cleaned, please inform your dealer to regularly clean the machine, so as to avoid damage to the machine or cause a fire.

- The battery must be replaced with the same type of product and the correct installation should be made in order to avoid electrical damage and explosion hazard.

- The product is a Class III device. The device must be well connected to ground. The power plug must be connected to a power outlet with a grounding device to ensure that the equipment is fully grounded.

- This product uses a power plug or appliance input socket as a disconnecting device with the power supply, and must be disconnected if necessary for safety reasons.
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This equipment is only suitable for safe use at altitudes under 2000 meters.

Precautions

1. The installation environment

When installing the unit, in order to ensure the normal cooling of the host, should avoid the poor ventilation of the place or high temperature environment, to avoid direct sunlight.

Recommend to install cabinet or other well-ventilated place indoor. If you use the machine in the outdoors, please pay attention to waterproof, moisture, lightning protection measures.

Avoid installing in a violent place of vibration; do not place other equipment on the machine.

2. To avoid electric shock and fire

Do not touch the hands and the source with wet hands

Do not spill liquid on the machine, so as to avoid short-circuit or fire inside the machine.

Do not place other equipment directly on the top of the unit.

Non-professional service personnel Do not disassemble the unit yourself to avoid damage and electric shock.

3. Transport and handling

The packaging of the machine is designed and tested to ensure that the host will not be accidentally damaged during transport. It is best to use the original packaging when handling the unit.

Do not move the host device between the place or cold or over hot to avoid condensation inside the machine, affecting equipment life.

4. Please follow the warning instructions on this product, the warning signs on behalf of:

	Applicable to 2000 meters above sea level and below safe use
	Safe use only in non-tropical climates

1、System Overview

The wireless all-digital conference system adopts original network communication and digital transmission processing technology with completely independent intellectual property rights, applies digital technology and network technology to conference system products, and perfectly combines wireless WIFI with wired all-digital, bringing a new breakthrough change to the conference field.

2、Product Introduction

Features:

1) The microphone uses a 48kHz sampling rate, which is higher than the sound quality of CD, clear and bright. It has DSP audio processing inside, and there is no "puff" low-frequency impact sound;
2) It has speech timing and timed speech functions.
3) The chairman has a priority function and can turn off the microphones of all representatives who are speaking. The representative machine has the function of applying for speech, and the chairman can approve the applicant to speak.
4) It has a voice control function to adjust the voice control sensitivity, intelligently turn on the microphone and set the closing time.
5) It has a 5-band EQ adjustment function (adjustable by entering the password in the PC software), which can adjust different sound effects according to the speaker's voice characteristics until the perfect effect is achieved.
6) It has a custom voting function, which is flexible and convenient.
7) It uses 128-bit AES encryption technology and supports WPA/WPA2 wireless security technology to prevent eavesdropping and unauthorized access, providing higher confidentiality of the conference system.
8) It has a 5-inch color screen that can display information such as microphone on/off, ID settings, power, signal strength, etc.; it supports multi-touch capacitive buttons.
9) It supports clock display function and can display date and time: year, month, day, hour, and minute.
10) It has 4 large-capacity lithium batteries with a battery capacity of 10400mA/h, which can last for 15 hours of speaking or 22 hours of continuous work.
11) It has a USB charging port and supports fast charging.
12) It has a 3.5mm headphone port and supports connecting an external microphone.

2.2 Product Interface Function Introduction



1.Short microphone stem, used to pick up the speech sound, the red light is on when the speech is turned on, and the green light is on when the representative applies to speak.
2.Menu button
3.Delegate microphone mute button, only the chairman microphone has this button
4.Speech on and off button.
5.Service application button, which can be clicked when any service is needed during the meeting.
6.5.0-inch high-definition full-color display, showing status information during the meeting, battery power and signal indication. Support voting, voting, elections, ratings.
7.The 3.5mm headphone jack supports audio source input and can replace the gooseneck microphone audio input.
8.Type-C interface can charge the device, while program upgrade and parameter configuration functions support fast charging function, which can be fully charged in 3 hours. Charging indicator light, red and green lights, when charging, the light color is green, and when fully charged, the light color is green.
9.Power on button, click to turn on, press and hold for 3S to turn off. When shutting down, click 5 times in succession to enter the SSID setting interface.
10.USB interface, used for extended functions.

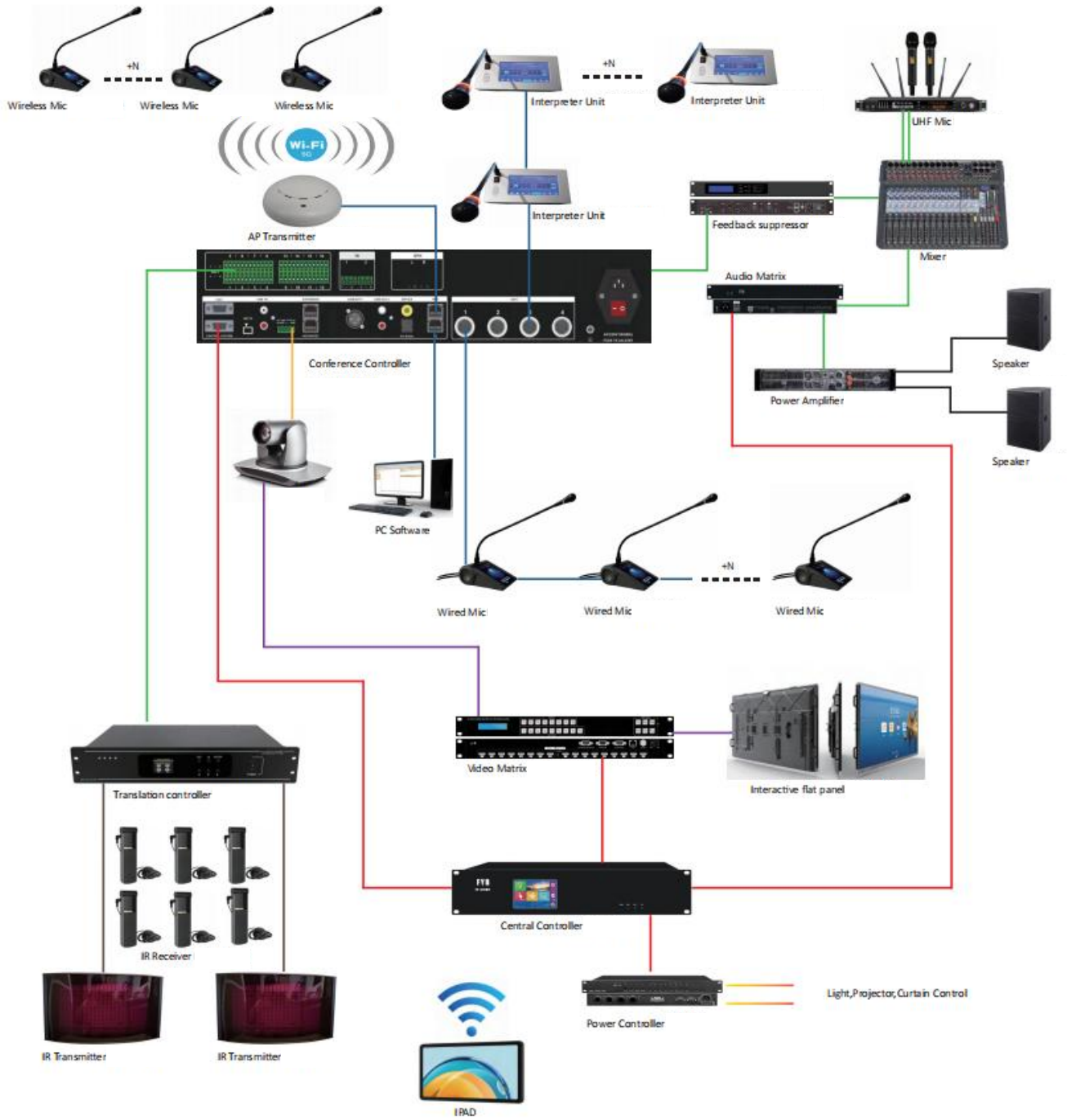
Battery life and usage instructions:

1. *The battery warranty period is one year from the date of shipment. The battery must be charged and activated at least once every three months. The company is not responsible for any damage to the battery performance due to long periods of idle time.*
2. *If the battery defect is not caused by abuse or misuse by the customer, the company will be responsible for returning or replacing the battery within the warranty period.*

Technical Parameters:

Microphone Type	Cardioid directional electret
Frequency response	80Hz~16kHz
Sensitivity	-41±1.5dB (0dB=1V/Pa,at 1KHz)
MaxSPL	100dB
SNR	>80dB(A)
Crosstalk	>70dB
Dynamic Range	>80dB
THD	<0.1%
Max power consumption	2.5 W
Power Supply	Battery powered
Color	Black
Voting Function	Five-key election, three-key voting
Sign in	Touch button to sign in
Screen	5-inch color screen
Installation	Desktop
Wireless frequency range	5.15GHz~5.85GHz
Battery capacity	5200mAh or 10400mAh
Size(L×W×H)	166×109×128 mm
N.Weight	0.75kg
Mic Length	215mm
Standby mode time	24 hours
Speaking mode	15 hours

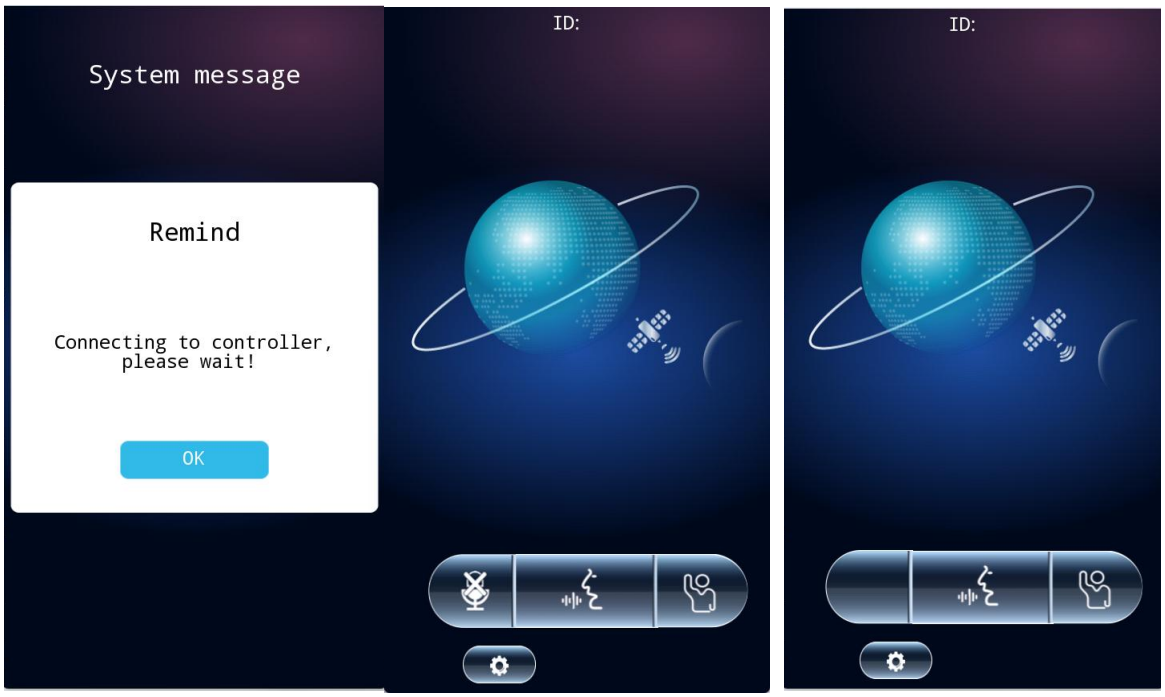
3、System connection diagram



4、Operation instructions

4.1. Start up

Turn on the controller and start the microphone. After connecting to the host network, enter the home page. The interface is as follows:



4.2. Introduction to home page

The Chairman unit touch screen can be used to turn on or off the microphone, and to turn off all delegate microphones. The Delegate unit touch screen can be used to turn on or off the microphone.

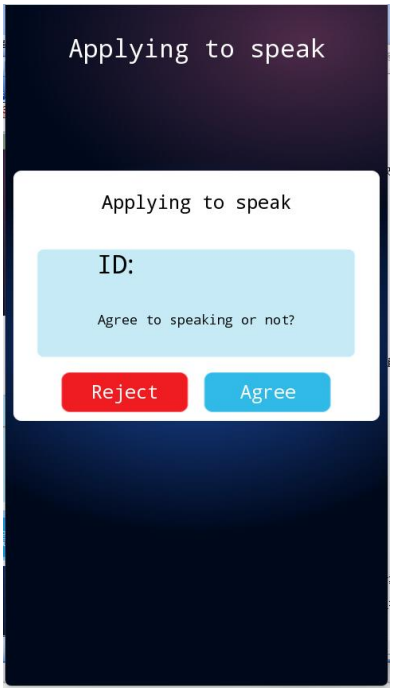
4.3. Meeting Management

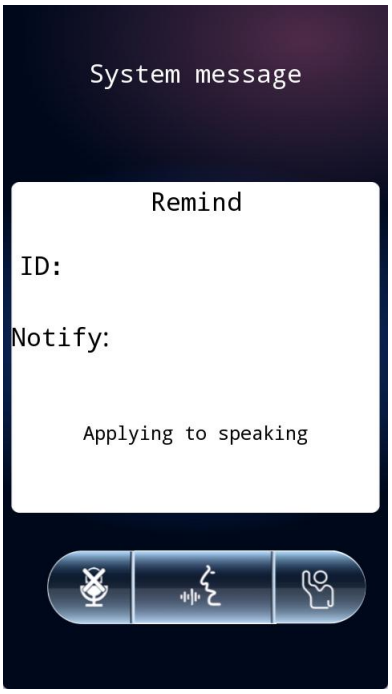
The microphone switch of the unit is controlled by the conference management, and its permissions are configured by the conference host. For the logic of use, refer to the conference mode description of the host. Press the MIC switch button to turn the microphone on and off, and the unit displays as follows:





In APPLY mode, the display is as follows:

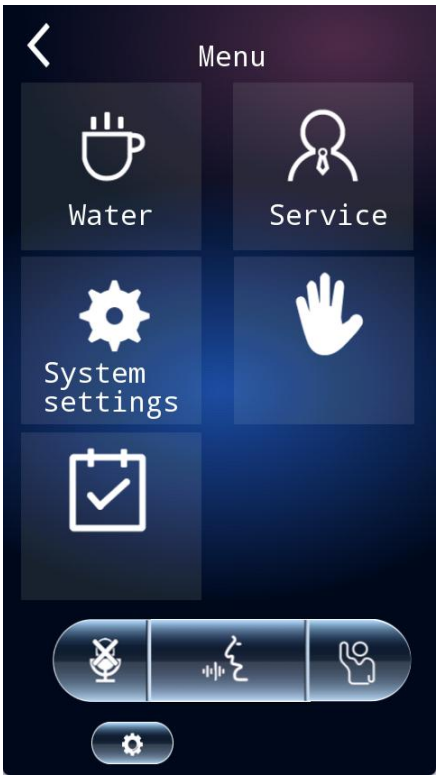


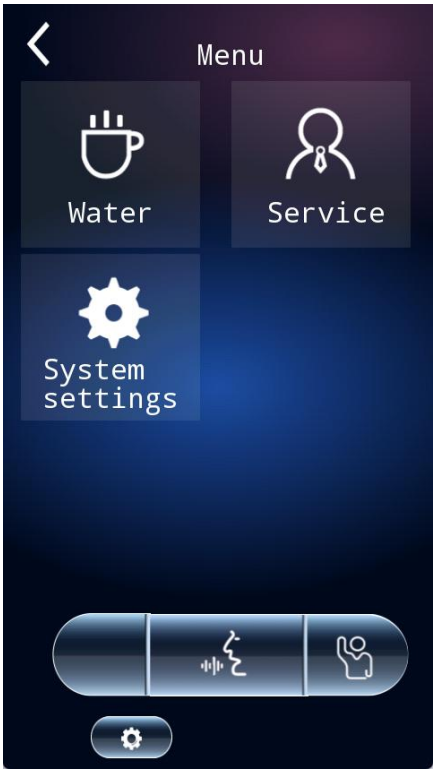


Press the Chairman unit priority button to turn off the microphones of all delegate units and turn on the microphone of this chairman unit.

4.4. Menu Page

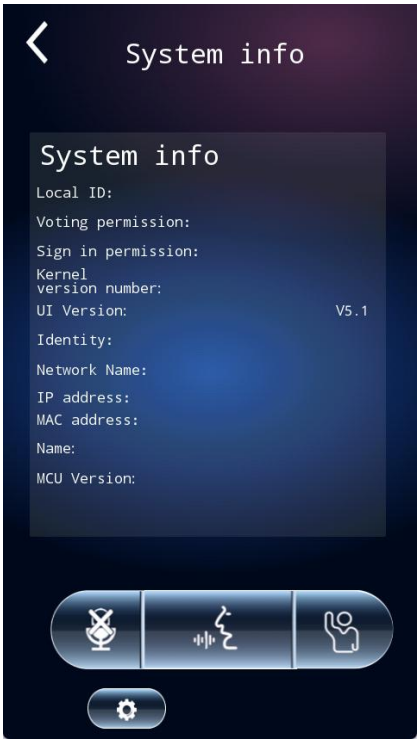
Enter the menu page, as shown in the figure below, there are system settings, tea service, and service.



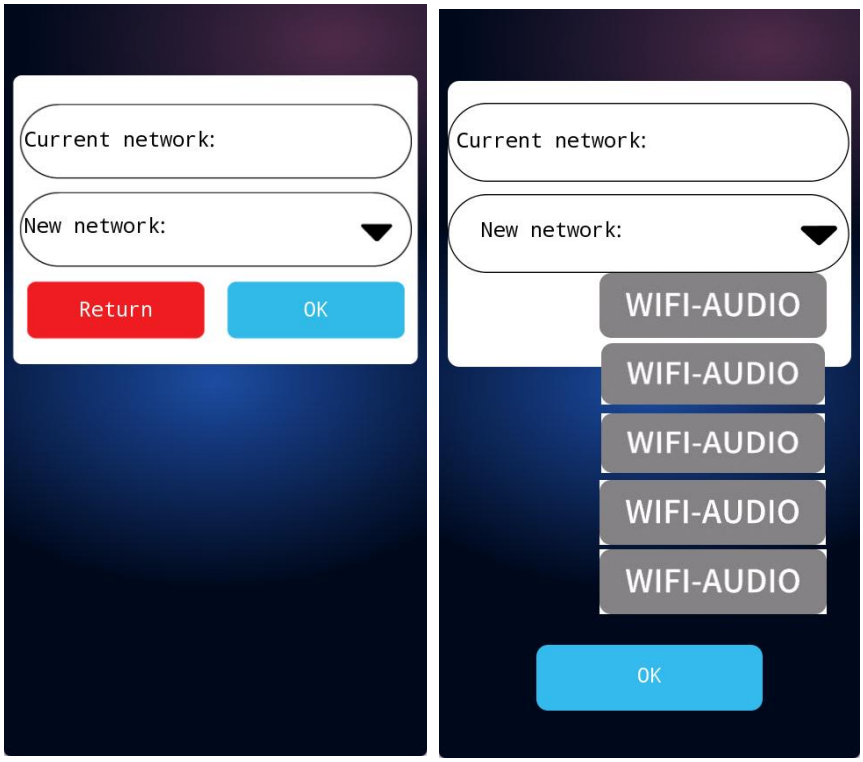


4.5. System Settings

4.5.1 Enter the system settings page, as shown in the figure below, which includes system status query, local ID display, voting rights, sign-in rights, version number, and AP connection selection.

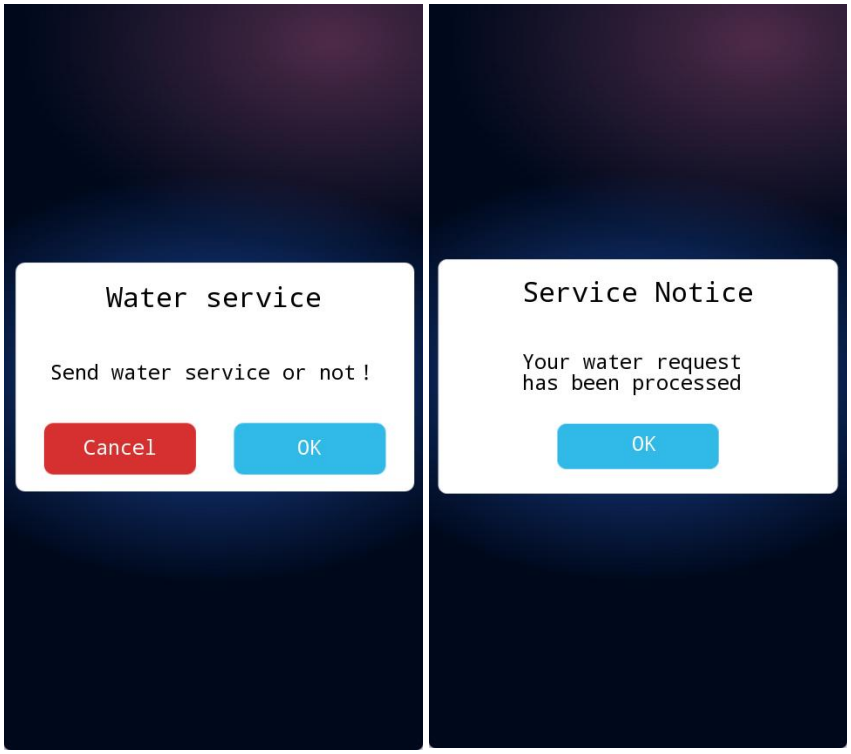


4.5.2 After clicking "System Information" 5 times, click the blue rectangle behind "Network Name" to select AP connection, as shown below:



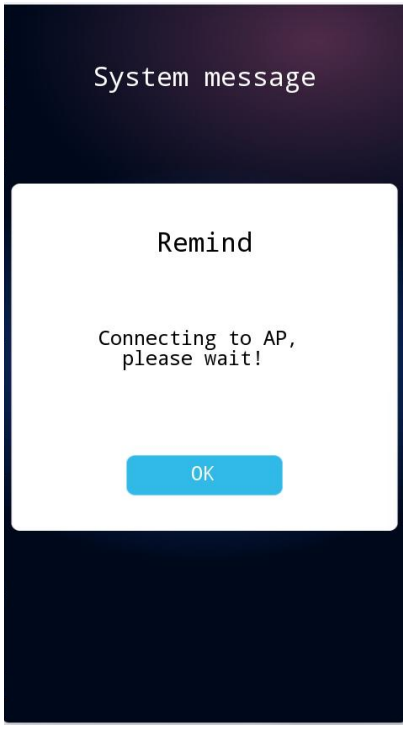
4.6. Service Application

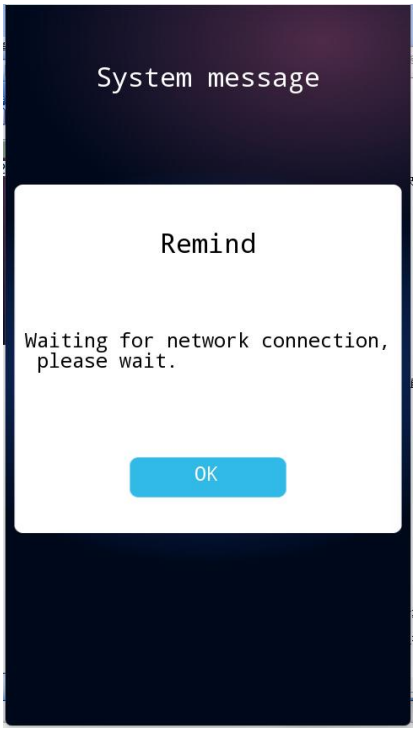
Participants can send "tea application" and "manual service application" to the background according to actual needs. Click the service item on the menu page to enter the application sending page. At this time, you can choose the application item you want to send. After sending the application, you can see the corresponding prompt on the PC side, and the unit will also have a corresponding prompt.



4.7 Wireless AP connection, network connection

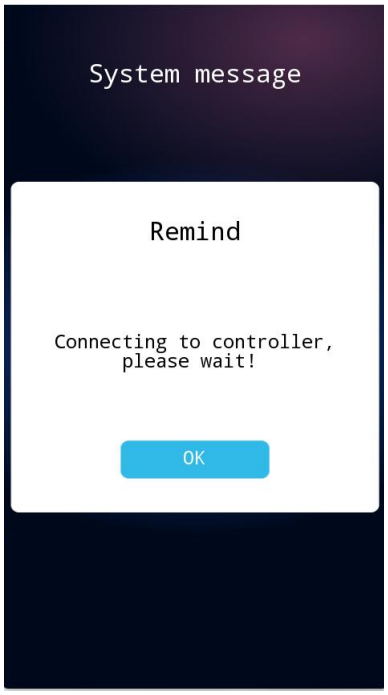
Turn off the wireless AP power for about 10 seconds, and the wireless microphone will pop up the following dialog box. If the wireless AP works normally after powering on again, the interface will return to the main page.





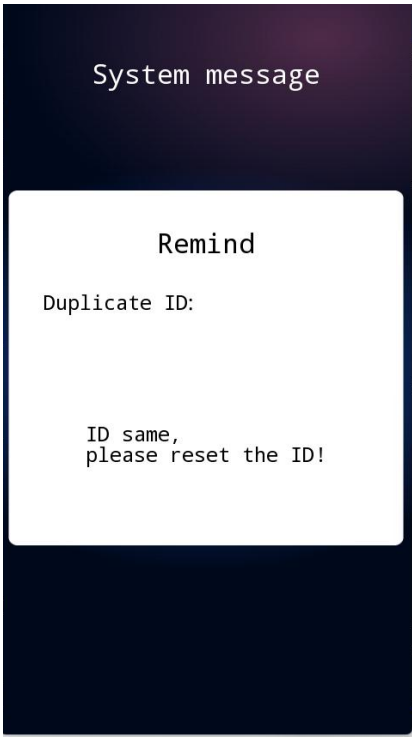
4.8. Controller connection

After unplugging the network cable or turning off the host power for about 60 seconds, the wireless microphone will pop up the following dialog box. If the host is powered on again and works normally, the interface will return to the main page.



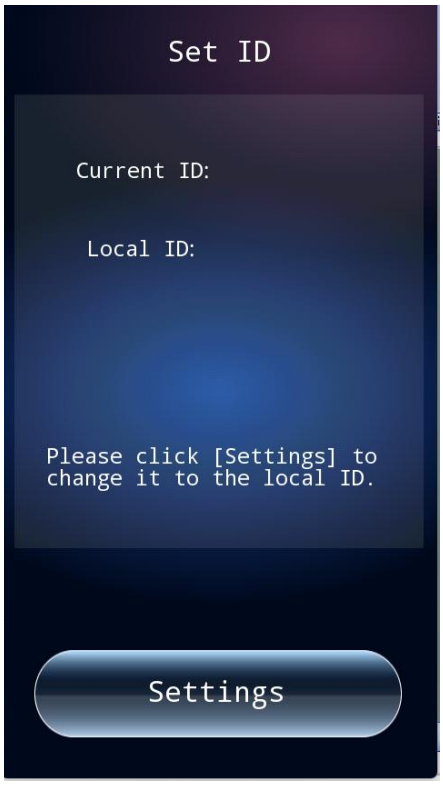
4.9. Duplicate ID Detection

If the ID of the unit connected to the host is the same, the following display will appear. In this case, you need to press the ID button on the host to re-encode the ID.



4.10. ID Numering Function

After the contgroller presses the ID button, it enters the ID mode. At this time, pressing the setup button or the microphone button can set the ID.



4.11. Timed speaking and speaking time

This function needs to be switched by the conference PC software. For details, please refer to the PC user manual. This function is for turning the microphone on and off. When the scheduled speech is made, the PC sends the scheduled speech time, and the unit will count down to display the remaining speaking time. When the time is up, the microphone will be automatically turned off.

During speak timing, the PC specifies the unit to start the speech timing, and the unit will count and display the elapsed speaking time.

4.12. Power plug-in, battery level, WIFI signal strength, charging mode indication

WIFI signal strength, 4 white bars in total, gray if no signal: 

Battery level, 4 bars: 

Fast charge mode indication： 

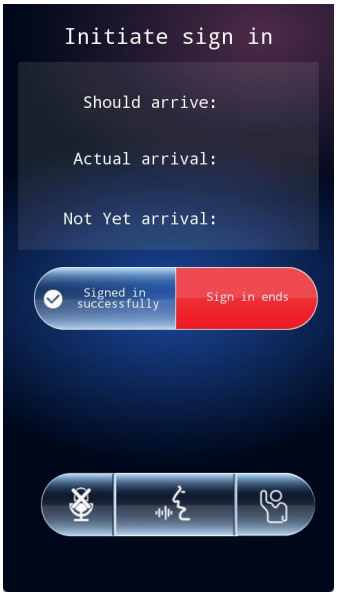
Normal charging instructions: 

4.13. Sign in

Wired chairman machine or PC software initiates sign-in, the corresponding light is on and the following is displayed. If it still stays on the main interface, it means that the unit is prohibited from signing in.



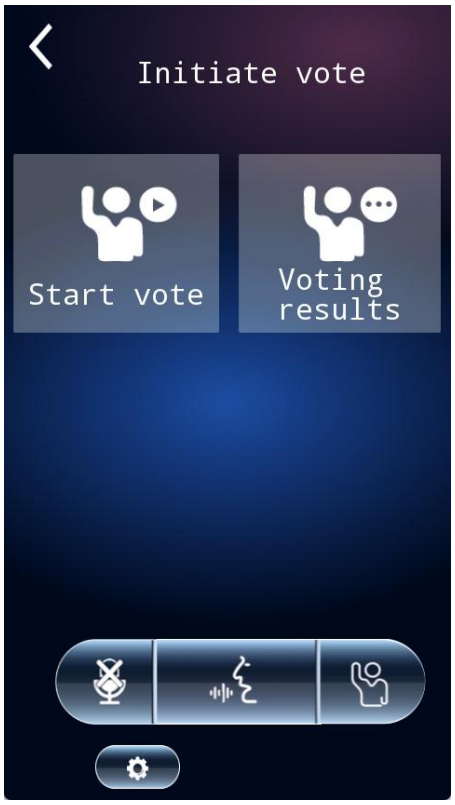
Press the sign-in button on the screen to sign in. After signing in, the following will be displayed:

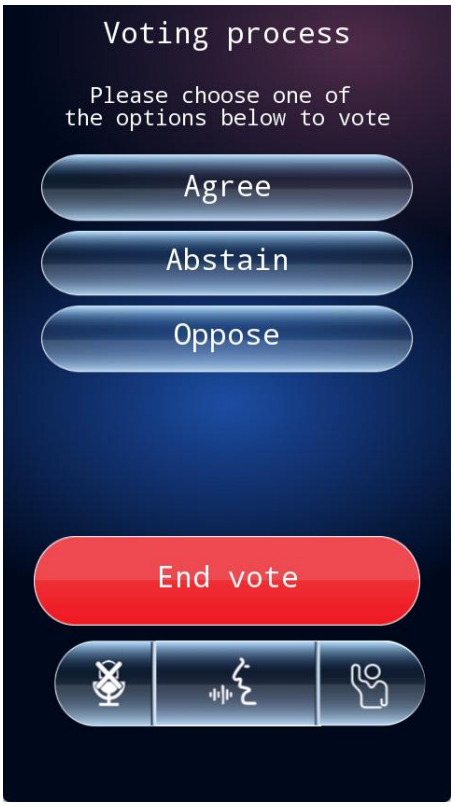


4.14. Voting

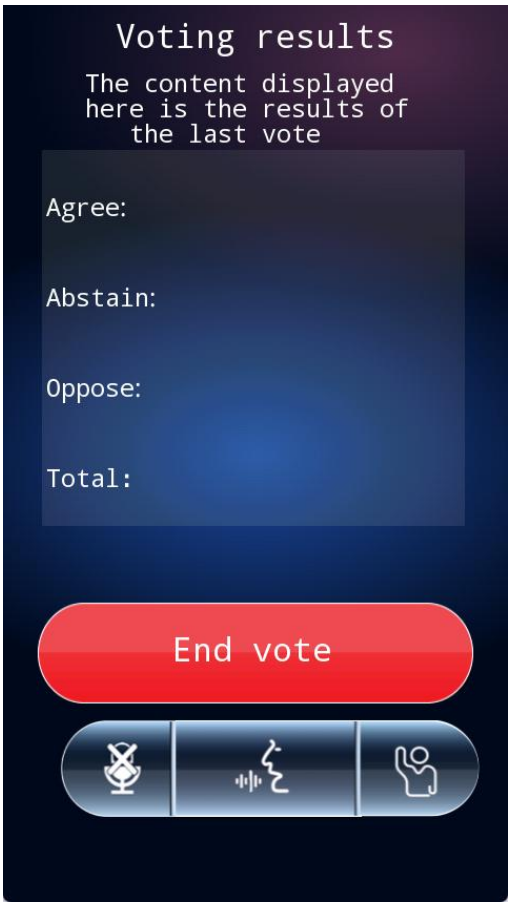
The wired chairman machine can initiate a 3-key vote for fixed options; the PC software can initiate a 3-key vote for fixed options, a 5-key election for fixed options, and a 5-key rating for fixed options. The display is as follows:

3-key voting process for fixed options:

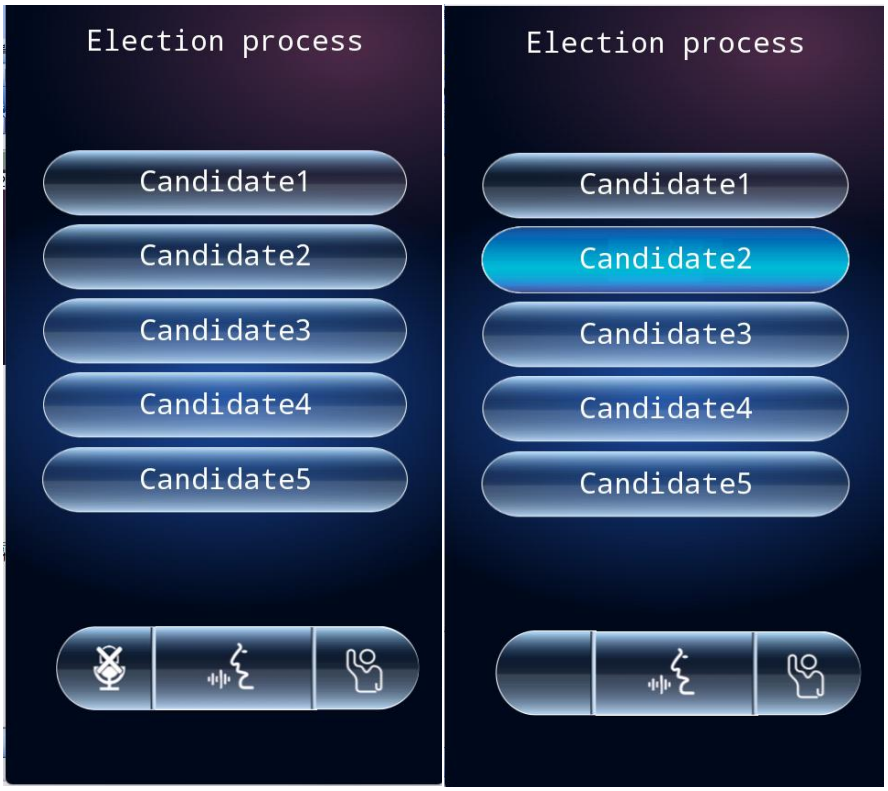




3-key voting for fixed options, pressing the button displays the following:



5-key election process for fixed options, 5-key election for fixed options, press the button to display accordingly:

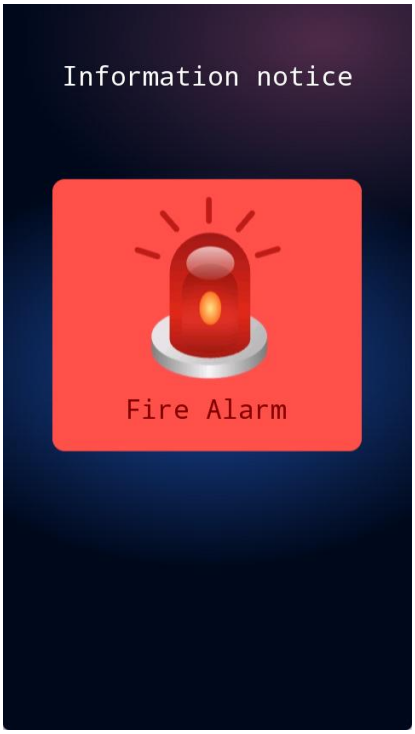


5-key rating process, 5-key rating of fixed options, pressing the button displays accordingly:



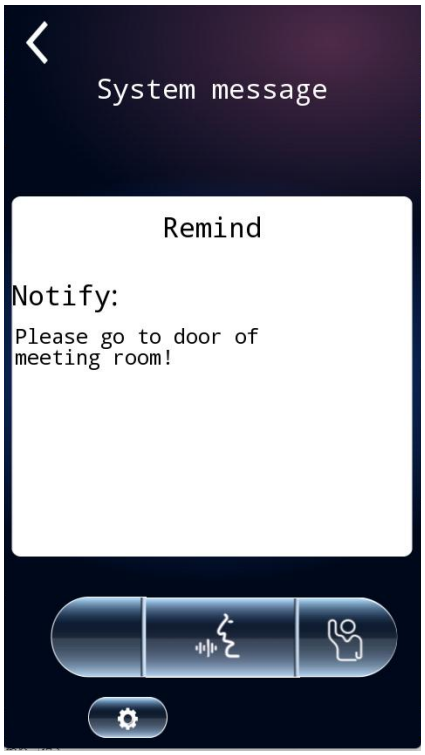
4.15. Fire Alarm

When the controller sends out a fire alarm message, the unit screen will display a "fire warning" prompt, and the red light on the microphone will flash until the host cancels the fire alarm and the unit returns to the state before the alarm. In the fire alarm, the buttons are invalid.



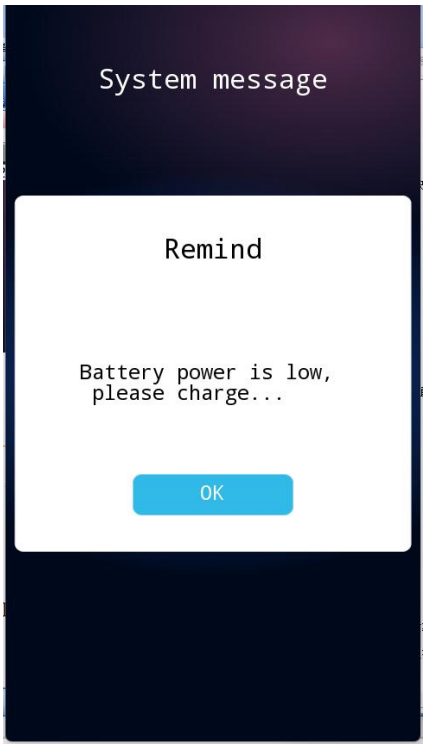
4.16. SMS

This function needs to be switched by the conference PC software control. For details, please refer to the PC user manual. Its function is that the PC can send/broadcast messages to the unit display screen to remind the unit user. The example is as follows:



4.17. Automatic shutdown function when power is low

When the battery is too low, the wireless unit will automatically shut down after showing the following picture.



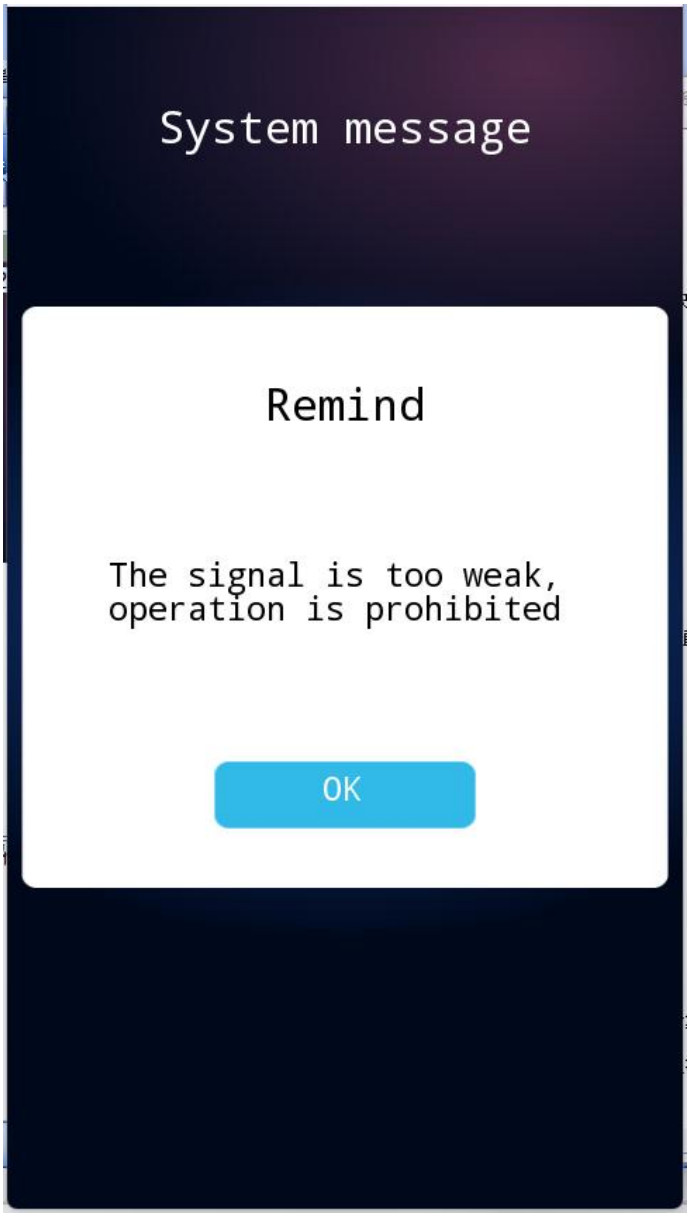
After shutting down, you need to charge to a certain voltage or replace the battery with a certain amount of power before you can turn it on. When the power is too low, the screen will not light up.

4.18. Power button function

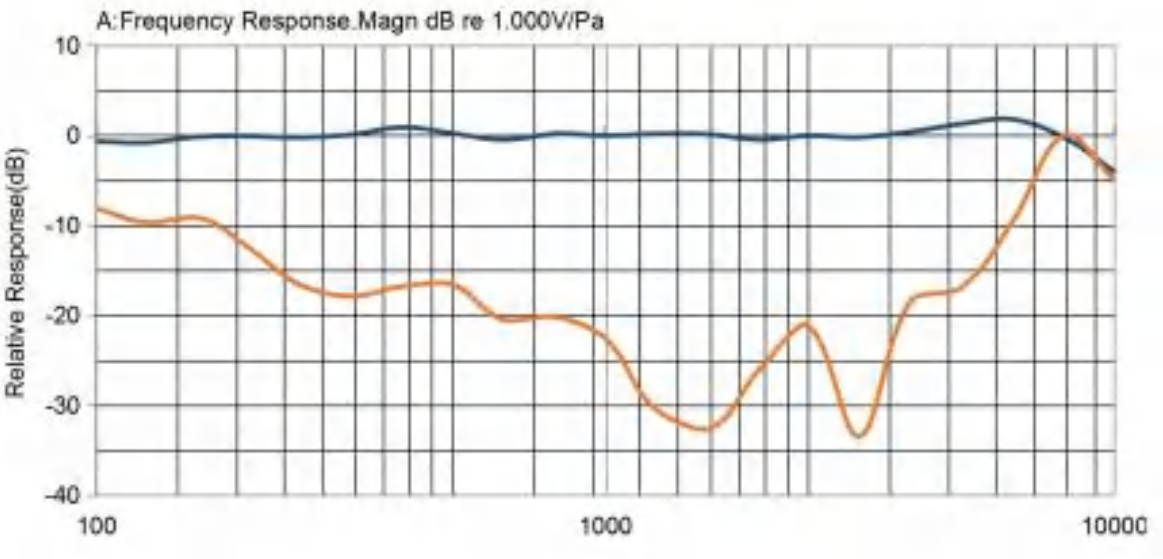
In the off state, short press the button to turn on the system. In the on state, long press the button for 3s to turn off the system.

4.19. Low signal strength indicator

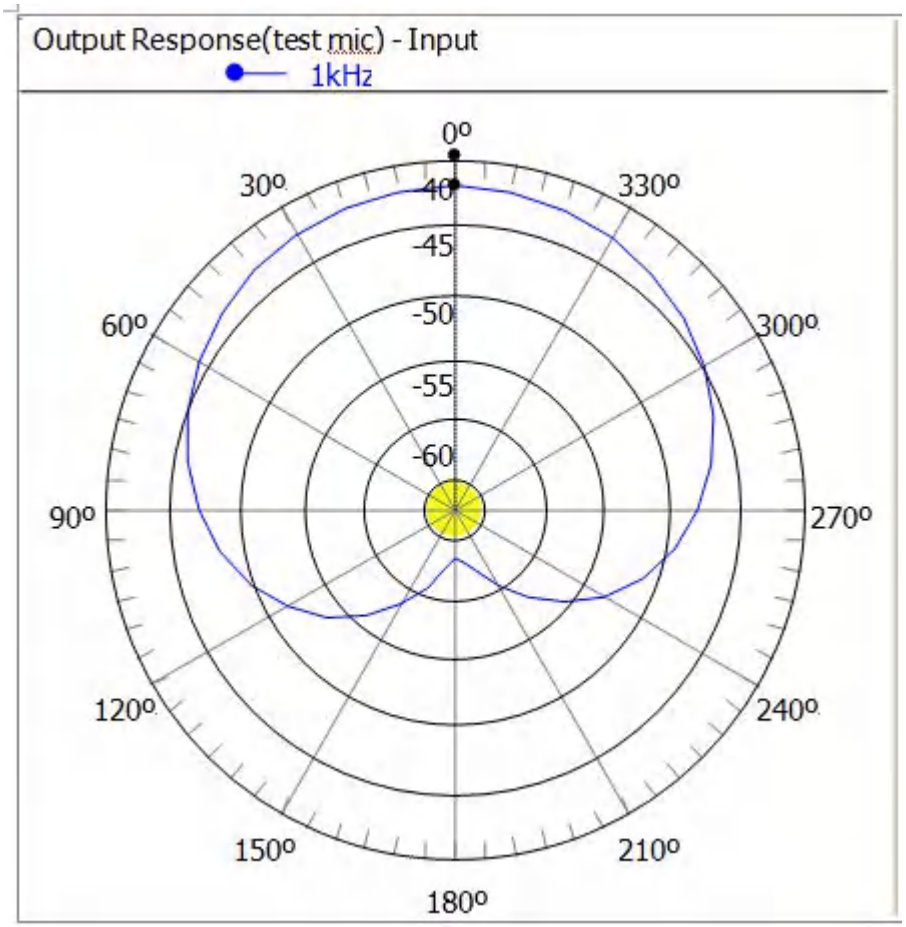
When the signal strength is too low and the connection with the AP is not disconnected, the following interface appears. At this time, the microphone and other functions cannot be operated. The user needs to move closer to the AP position and make the signal become >= 1 grid before normal operation can be restored.



Microphone core frequency response curve:



Microphone core cardioid polar pattern:





CAUTION: Do not open the equipment cover arbitrarily, so as not to electric shock. Please contact the professionals to maintian if necessary.

The products are constantly improving, subject to change without prior notice.