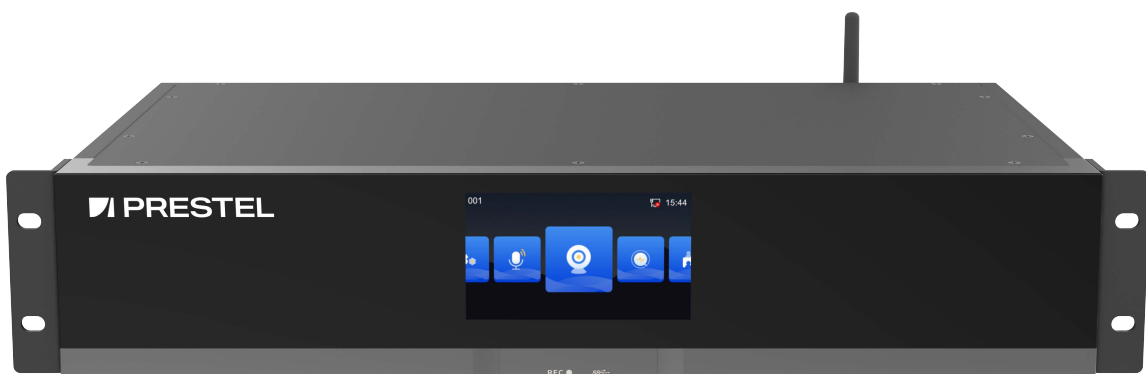




## Prestel NCS-CU1

IP Network Conference System  
Central Unit



**USER MANUAL**

# Table of Contents:

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- 1. Important Safety Precaution
- 2. Product Overview
  - 2.1 Basic Introduction
  - 2.2 Hardware Interface Description
- 3. Quick Operation Guide
  - 3.1 Network Settings
  - 3.2 User-Defined Terminal Parameter Settings
  - 3.3 Basic Function
  - 3.4 Troubleshooting

# 1. Important Safety Precaution

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Please read this User Manual carefully before using this product and follow all the safety precautions mentioned herein.

## **During Installation:**

### (1) Avoid humidity:

Please do not expose the device to rainy environment or other humid environment, otherwise it may lead to fire or electric shock.

### (2) Use correct power supply:

Please use the specified power adapter for the device, using high voltage power supply may lead to fire or electric shock.

### (3) Protect the electric wire:

Do not scratch, cut or twist the power cord, keep the power cord away from any heating device, do not place heavy objects on top of the power cord, otherwise it may lead to fire or electric shock.

## **During Use:**

### (1) If anything goes wrong:

During use of this device, if any of these anomalies mentioned below happens, please cut off the electricity immediately, otherwise it may lead to fire or electric shock.

- smoke or strange smell coming out of the device.
- water or other foreign object gets into the device.
- damage on the product shell.
- damage of the power cord (cable core exposed or broken).
- malfunction of the device (no network connection or no sound).

### (2) Do not open the product shell:

There are high voltage parts inside of the product shell, opening the product shell without permission may lead to fire or electric shock.

### (3) Do not touch the device when it thunders:

To avoid electric shock, please do not touch the device or power plugs when it thunders.

### (4) Do not place liquid containers on top of the device:

If accidentally knock over the liquid container and let any liquid get into the device, it may lead to fire or electric shock.

### (5) Cautions when the device is not in use:

If the device is not in use for 10 days or longer, please cut off the electricity and unplug the power plug from the power socket, otherwise it may lead to fire or electric shock.

## 2. Product Overview

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Here is what you can find in this section:

- **2.1 Basic Introduction**
- **2.2 Hardware Interface Description**

## 2.1 Basic Introduction

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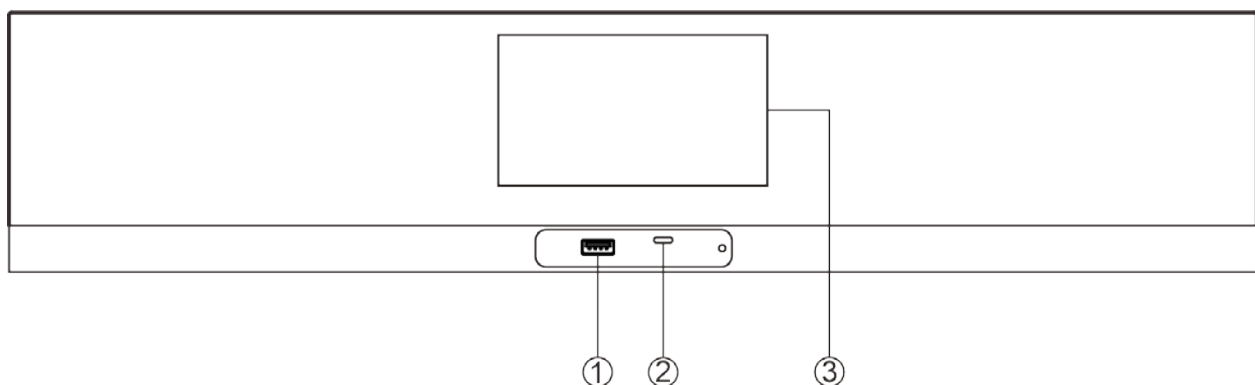
- Support ring network digital transmission and hand in hand cascade, support up to 4 independent ring network to meet different networking needs.
- 48KHz digital audio sampling lossless transmission, <10ms transmission delay, audio quality is not affected by the length of the network cable.
- The input volume, AGC, EQ and other audio parameters of each speaking unit can be adjusted separately, or uniformly.
- Support PC, mobile phone, tablet and other devices wireless access device hotspot, real-time adjustment of the parameters through the web page and UI interface.
- Support U disk real-time recording function, support 64G FAT32 format U disk for the maximum.
- Conference unit supports hot plug and play, plug and play without setting.
- Support loop monitor the front-end devices; The ring network supports power-on self-test, automatic diagnosis, and fault cause prompt.

## 2.2 Hardware Interface Description

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### Interface Description

#### [Front panel]

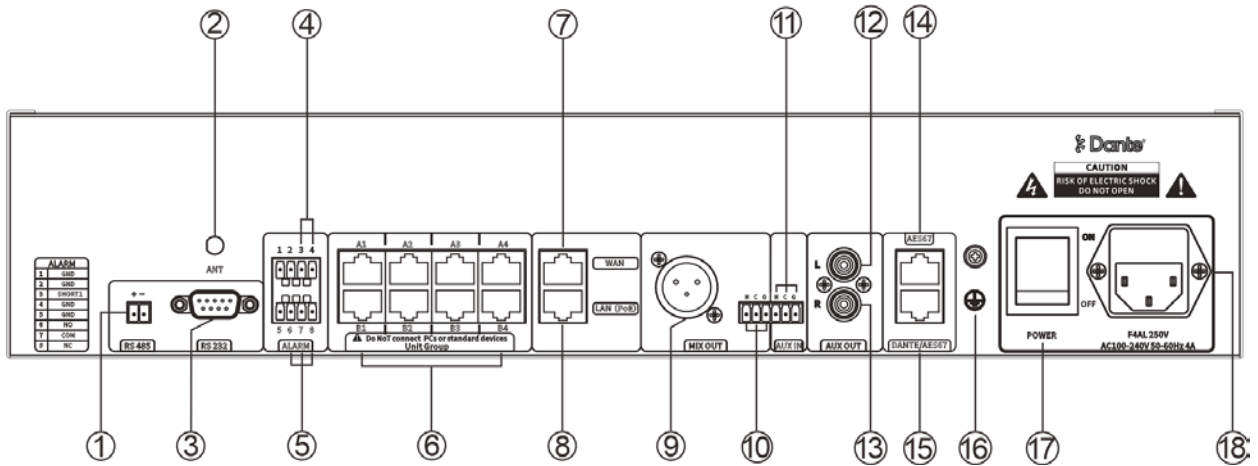


①USB Interface: Insert a USB flash drive for audio recording purposes.

②USB Sound Card: Receives audio signals from the computer, or outputs the audio of the host.

③Touch Screen: Displays device status information.

**[Rear panel]**



- ①RS485 interface
- ②ANT: 2.4 antenna interface
- ③RS232 interface
- ④Short-Circuit Input Interface:
- 3: SHORT 1
- 4: GND
- ⑤ShortCircuit Output Interface:
- 6: NO
- 7: COM
- 8: NC
- ⑥A1-B4:For Connecting Microphones
- ⑦WAN: RJ45 Network Interface (POE Not Supported)
- ⑧LAN: RJ45 Network Interface (POE Supported)
- ⑨MIX OUT: XLR Audio Balanced Output Port.
- ⑩MIX OUT-HCG: Phoenix Audio Balanced Output Port.
- ⑪AUX IN-HCG: Phoenix Audio Balanced Input Port.
- ⑫Stereo Line Output (Left Channel)- L
- ⑬Stereo Line Output (Right Channel)- R
- ⑭AES67 Interface: Reserved
- ⑮DANTE/AES67 Interface
- ⑯Ground Terminal: Safety ground point.
- ⑰POWER: Power Switch.
- ⑱Power Socket: For Connection to Mains Power.

# 3. Quick Operation Guide

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Here is what you can find in this section:

- **3.1 Network Settings**
- **3.2 User-Defined Terminal Parameter Settings**
- **3.3 Basic Function**
- **3.4 Troubleshooting**

## 3.1 Network Settings

---

After the IP network conference host is properly wired, and the power is switched on, the network parameters of the terminal need to be changed according to the live environment. There are two methods:

### 3.1.2 Using intercom built-in WEB page

Use a web browser and navigate to the Web page of the IP network conference host. The default IP address is <http://192.168.1.101>. configuring the network parameters of the terminal according to the live environment Click "save" after modified.

For specific operations, please refer to the user-defined terminal parameters.

### 3.1.1 Using the IP Device Configuration Tool

(1) Run "IP DevConfig Tool", after the tool is started, the interface will display the IP terminal that has been scanned, or you can click the "Quick scan" button to scan the terminal again.

(2) Configure the terminal's IP network information.

**Method 1:** Check the designated terminal and click "Terminal Configuration"- "Parameter Configuration" to configure IP network information for the terminal.

**Method 2:** If the scanning tool does not scan the terminal, you can click "Advanced" to perform mandatory IP configuration. This method will force all terminals in the network to be configured to the same IP address and other information, so when using this method, please ensure that only one target terminal is connected in connected to the network.

For specific operation steps, please refer to the User Manual of "IP Device Configuration Tool".

#### Remark:

1. If you use Windows 7 system to operate, please use the administrator mode to run the IP DevConfig Tool, and turn off the firewall and related software;
2. If the terminal is not scanned, the mandatory configuration method can be used. At this time, the IP DevConfig Tool can only configure the network parameters of one terminal at a time. When using this method to configure terminal network parameters, please make sure that one computer corresponds to only one target terminal.
3. If you need an IP DevConfig Tool, please contact our company's after-sales service.

## 3.2 User-Defined Terminal Parameter Settings

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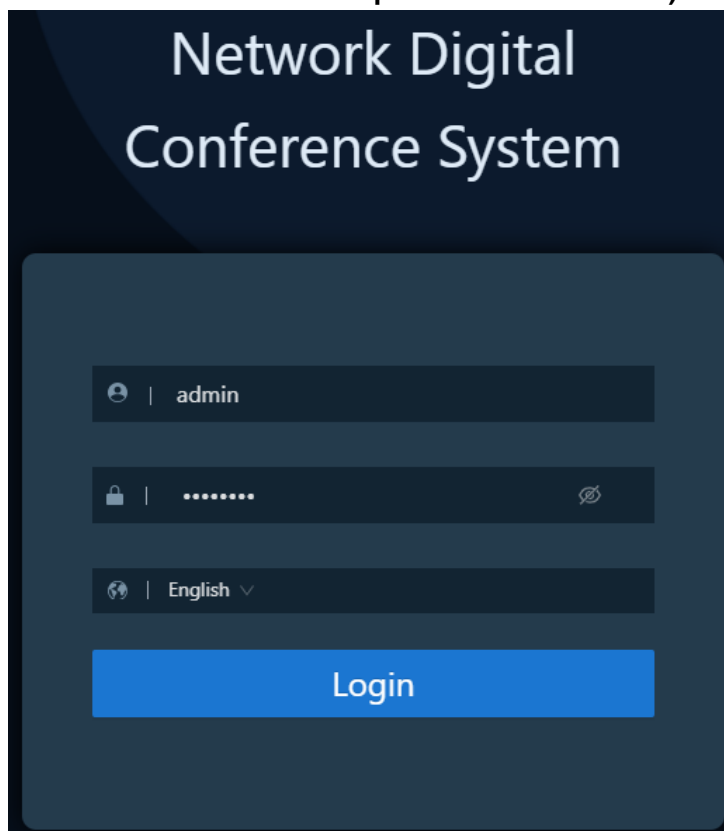
### Login Webpage

(1) Please input the IP address of the IP network conference host into the address column of the browser (the factory default IP address is 192.168.1.101), then enter.

**(Note: It is advised to use win10 system.)**

(2) Enter the username and password to log in.

**(Note: Default username is admin and default password is Rdc070#\*)**



The image shows a login webpage for the 'Network Digital Conference System'. The page has a dark blue background with white text. At the top, the title 'Network Digital Conference System' is displayed in a large, white, sans-serif font. Below the title, there is a light blue rectangular area containing the login form. The form consists of three input fields and a 'Login' button. The first field is for the username, with a person icon on the left and the text 'admin' entered. The second field is for the password, with a lock icon on the left, a series of dots for the password, and an eye icon on the right to toggle visibility. The third field is for the language, with a globe icon on the left and the text 'English' followed by a downward arrow. Below these fields is a prominent blue button with the word 'Login' in white text.

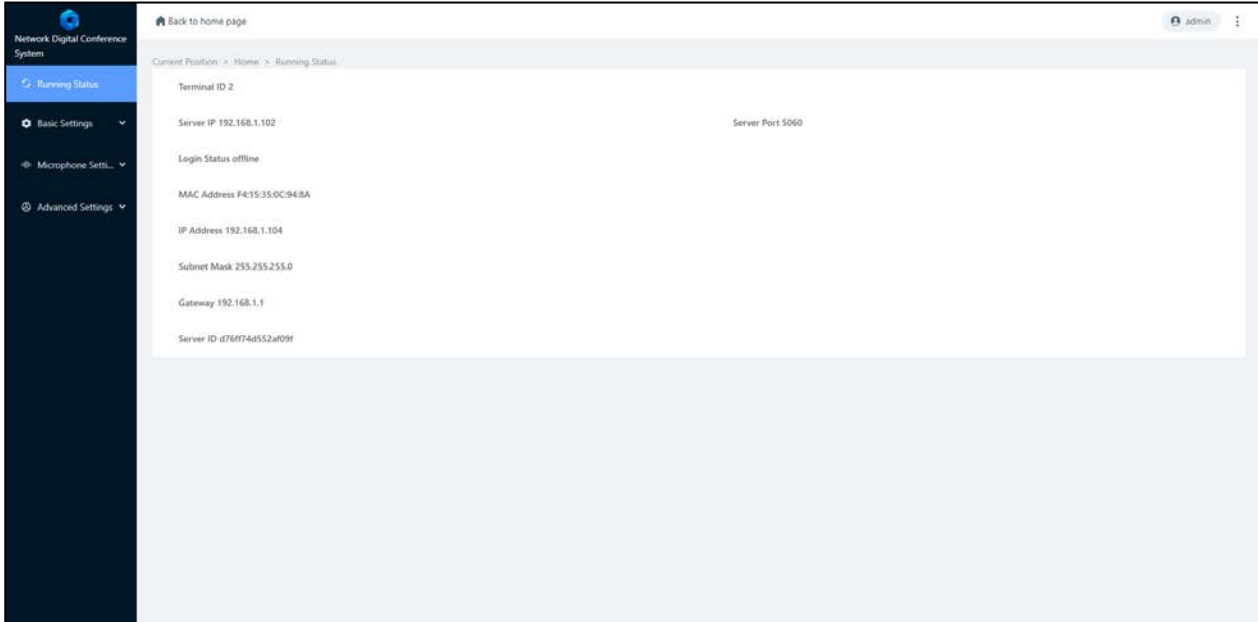
(3) Press login to enter the IP network conference host web page.

**(Note: If the relevant parameter modification in the web page does not take effect after saving, please clear the cache and set them again.)**

## Running Status

After login to the web page, click “Running Status”, it will show the information of: Terminal ID, server IP, server port, server ID, device login status, MAC address, terminal IP address, default gateway and other information.

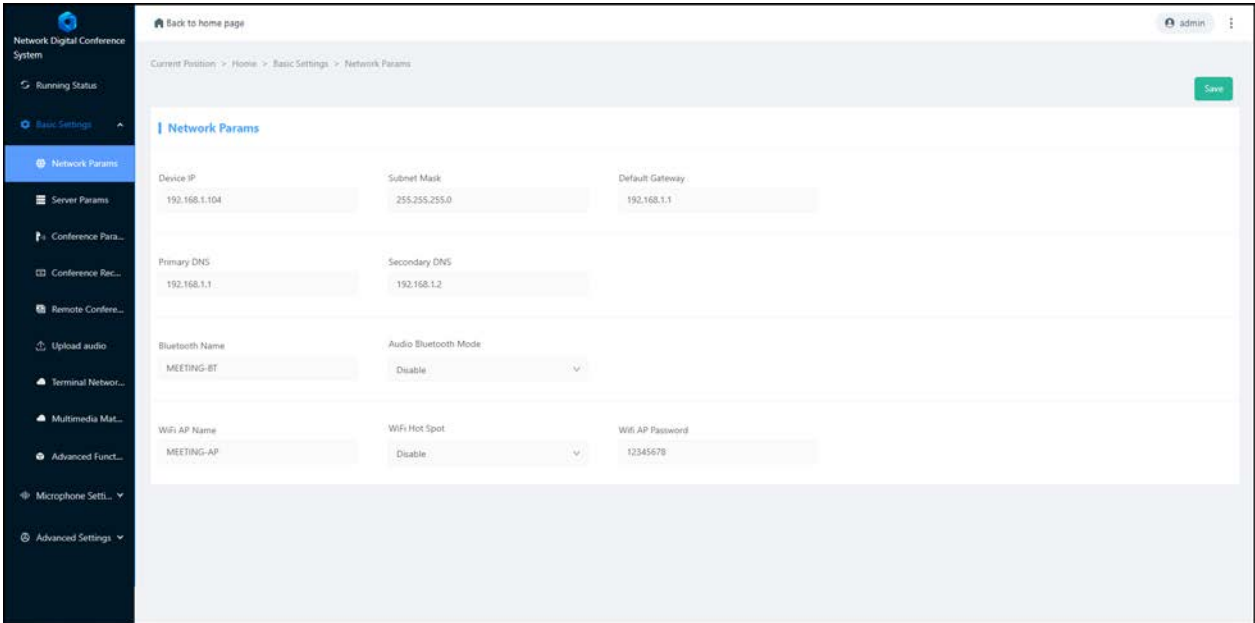
**Note: The server ID is used to bind IP network conference host on the Conference Control Management Software.**



# Basic Settings

## Network Params

Please set the network parameters of the terminal according to the environment. Click [save] after setting, the parameters will take effect after reboot.

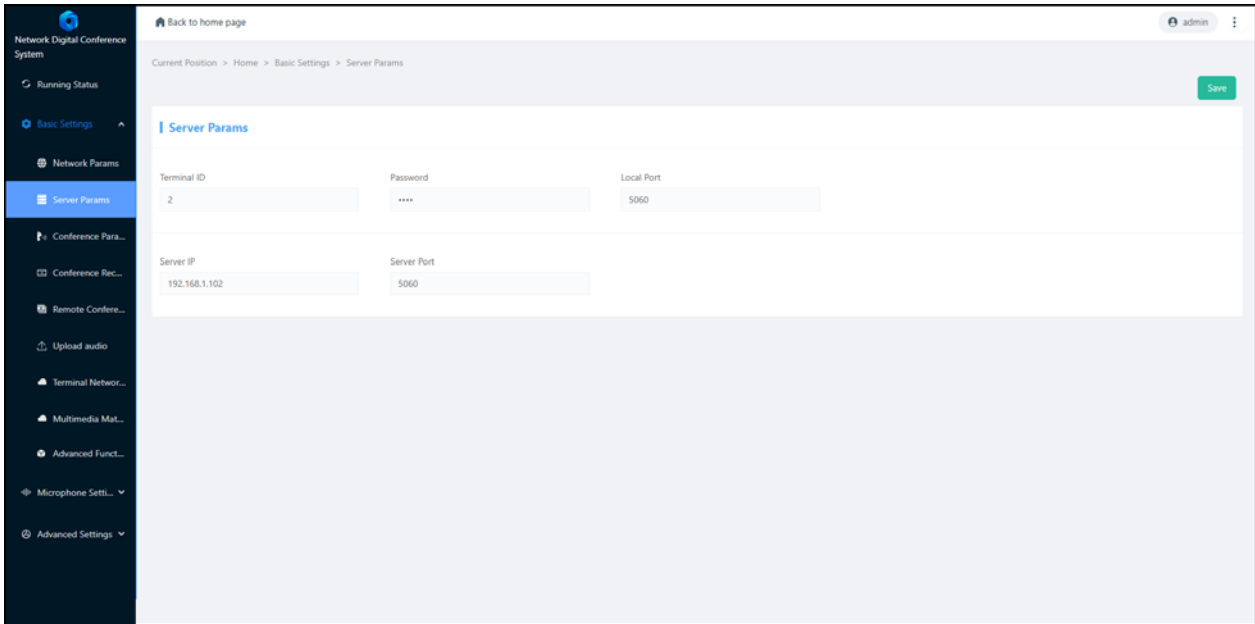


The relevant settings of network parameters are as follows:

Device IP	The IP address of the device, the factory default IP is 192.168.1.101, which cannot be duplicated with other terminals.
Subnet Mask	The subnet mask of the LAN network.
Default Gateway	The gateway of the network.
Primary DNS	The IP address of the preferred DNS server (domain name resolver) for the network.
Secondary DNS	The IP address of the alternate DNS server (domain name resolver) for the network.
Bluetooth Name	Set terminal's Bluetooth name.
Audio Bluetooth Mode	Set whether to enable Bluetooth function.
Bluetooth Password	Set terminal's Bluetooth password. The default Bluetooth password is "0000".
Wifi Ap Name	Set terminal's Wifi name
Wifi Hot Spot	Set whether to enable Wifi hot spot function.
Wifi AP password	Set terminal's Wifi password, the default Wifi password is "12345678".

## Server Params

Set the server related parameters of the terminal login, click [Save] after the modification, and the parameter modification will take effect after the restart.

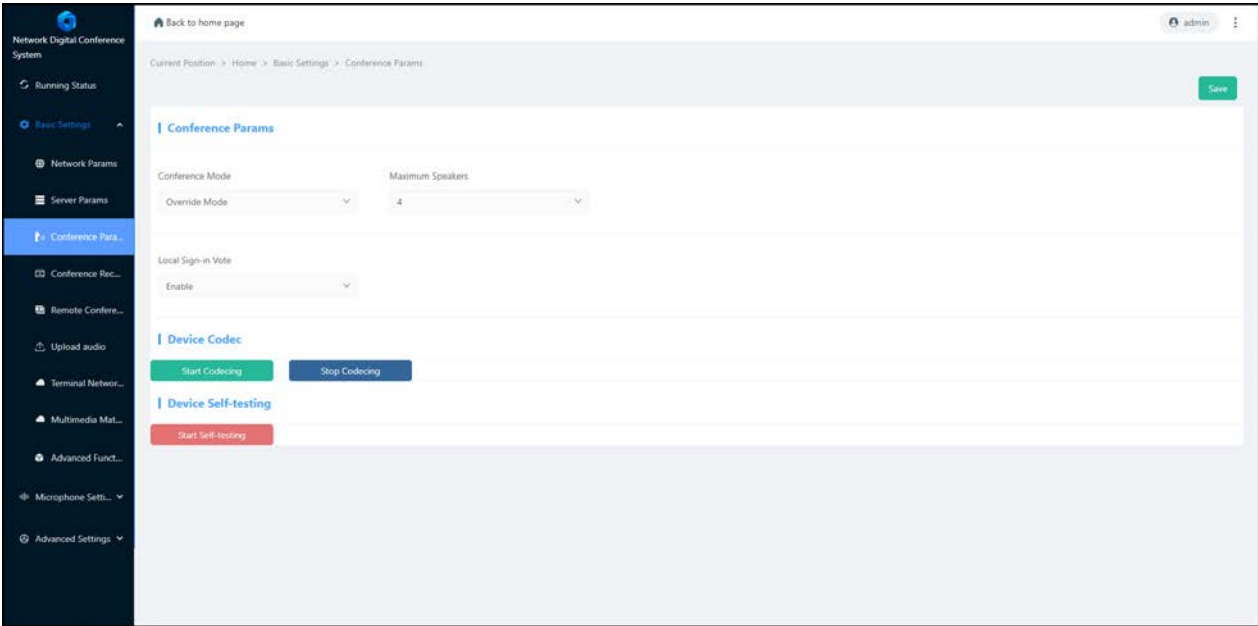


The relevant settings of server parameters are as follows:

Terminal ID	Unique number to identify the terminal and cannot be duplicated with terminals or other terminals. The default value is 1.
Password	The password for terminal to login to SIP server.
Local Port	Please configure the local port according to the actual situation; the default is 5060.
Server IP, Port	IP address of the SIP server that the IP network conference host logs into. Please enter the correct IP address of the SIP server. The default is 192.168.1.13. The port number cannot be changed except in special cases. (Default is 5060)

## Conference Params

Set terminal conference parameters, click on [save] after setting, the parameters take effect in time.



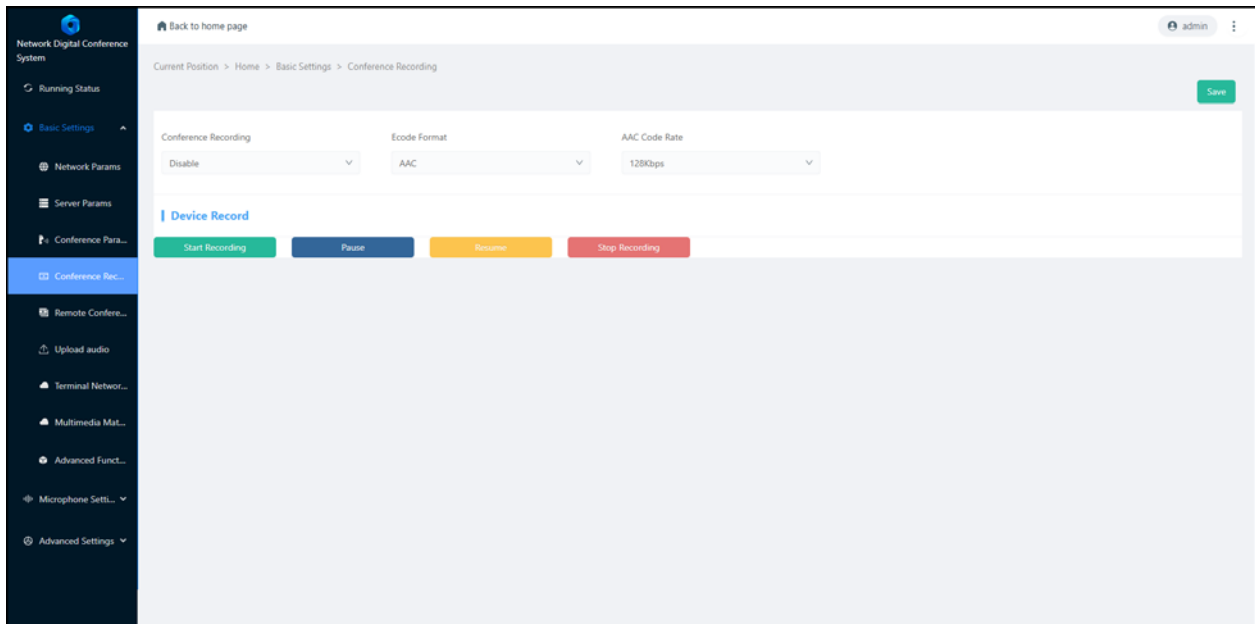
The relevant settings are as follows:

<p>Conference Mode Maximum speakers</p>	<p>Conference Mode: “Override Mode”, “Apply Mode”, “Chairman Mode”, “Limited-Speaker Mode” , “Time-limited Mode”, “Voice-activated Mode”are optional.</p> <p>Maximum speakers: Set the maximum number of speakers for a Conference.</p> <p><b>Override Mode:</b> When the number of speakers has reached to the maximum number of speakers, there are unit seats who want to join the conference, then it needs unit seats to exit the conference. In fifo conference mode, the first unit seat allowed to speak will be kicked out.</p> <p><b>(Note: The "maximum number of speakers" in this mode includes the chairman unit.)</b></p> <p><b>Apply Mode:</b> in this mode, if a "represent" wants to join the conference, it needs the approval of the “chairman”. Only one "represent" can speak at a time, other "represent"s who apply for speak will in queue</p> <p>When the number of speakers has reached to the maximum number of speakers, it needs speakers to press the speaker button to exit the conference, and the next unit seat can speak.</p> <p><b>(Note: The "maximum number of speakers" in this mode includes the chairman unit.)</b></p> <p><b>Chairman Mode:</b> in this mode, only chairman units can speak.</p> <p><b>(Note: The "Maximum number of speakers" is ineffective in this mode.)</b></p> <p><b>Limited-Speaker Mode:</b> When the number of speakers has</p>
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	<p>reached to the maximum number of speakers, there is a “chairman” who wants to speak, it needs speakers to exit the conference, In this mode, if a “chairman” wants to speak, the "represent" who allows to speak first will be kicked out of speak first.</p> <p><b>(Note: The "maximum number of speakers" in this mode includes the chairman unit.)</b></p> <p><b>Time-limited Mode:</b> when select “Time-limited mode”, you need to set“Maximum speaker time”, when a “represent” start to speak , it start the timer, and other “represent” can’t speak. For “chairman”, they can press speak button to speak at any time.</p> <p><b>(Note: The "maximum number of speakers" in this mode is ineffective. When speakers of chairman reach to 9,“Override mode” will be followed among chairman. )</b></p> <p><b>Voice-activated Mode:</b> Users can customize the mute timeout(e.g., 15 seconds) and voice activation threshold (e.g., -15dB) for automatic microphone input monitoring: the microphone will be muted automatically when the detected sound pressure level remains below -15dB for 15 consecutive seconds, and unmuted automatically once the volume exceeds -15dB. This enables fully automatic speaking management without the need for manual key presses.</p> <p><b>(Note: The "maximum number of speakers" in this mode includes the chairman unit.)</b></p>
Local Sign-in vote	Set whether to enable local sign-in and vote function.
Device Codec	Click on “Start(codecing)” button, you can number microphone manually, after it finished, click on“Stop(codecing)”button.
Device Self-testing	Click on “Start Self-testing” button, and the conference microphones in the loop network will restart to perform a self-test.

## Conference Recording



Set terminal conference recording parameters, click on [save] after setting, the parameters take effect in time.



The relevant settings are as follows:

Conference Recording	Set whether to enable conference audio record function.
Ecode Format	Set the audio encoding format of conference audio recording, AAC and PCM are optional.
AAC Code Rate	Set AAC code rate, 64Kbps ~ 192Kbps are optional.
Device Record	Click on “Start Recording” button to start recording; Click on “Pause” button to pause recording; Click on “Resume” button to resume recording; Click on “Stop Recording” button to stop recording.

## Remote Conference

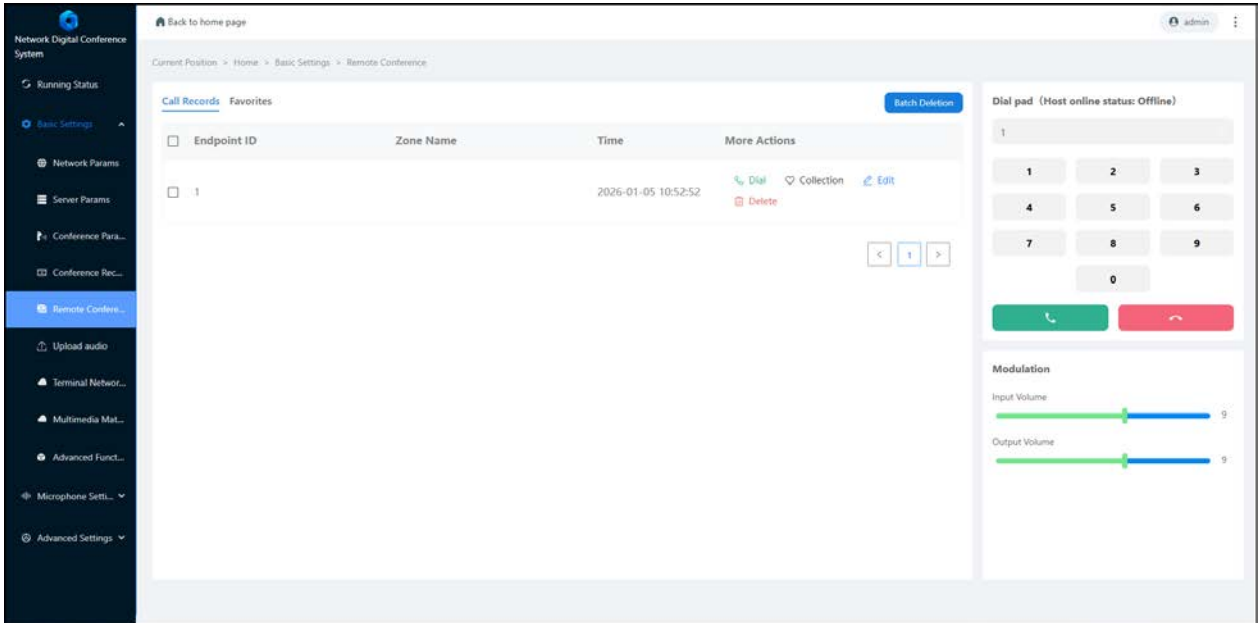
After entering in the target conference ID in dial pad, and then click on  button to start a remote Conference with the terminal. Click on  button to end the remote Conference.

**Input Volume:** Set conference input audio volume.

**Output Volume:** Set conference output audio volume.

**Call Records:** You can View conference records on this page.

**Favorites:** Click on “Collection” button on “more action” column of conference records. You can save terminal to favorites page to make convenient call.

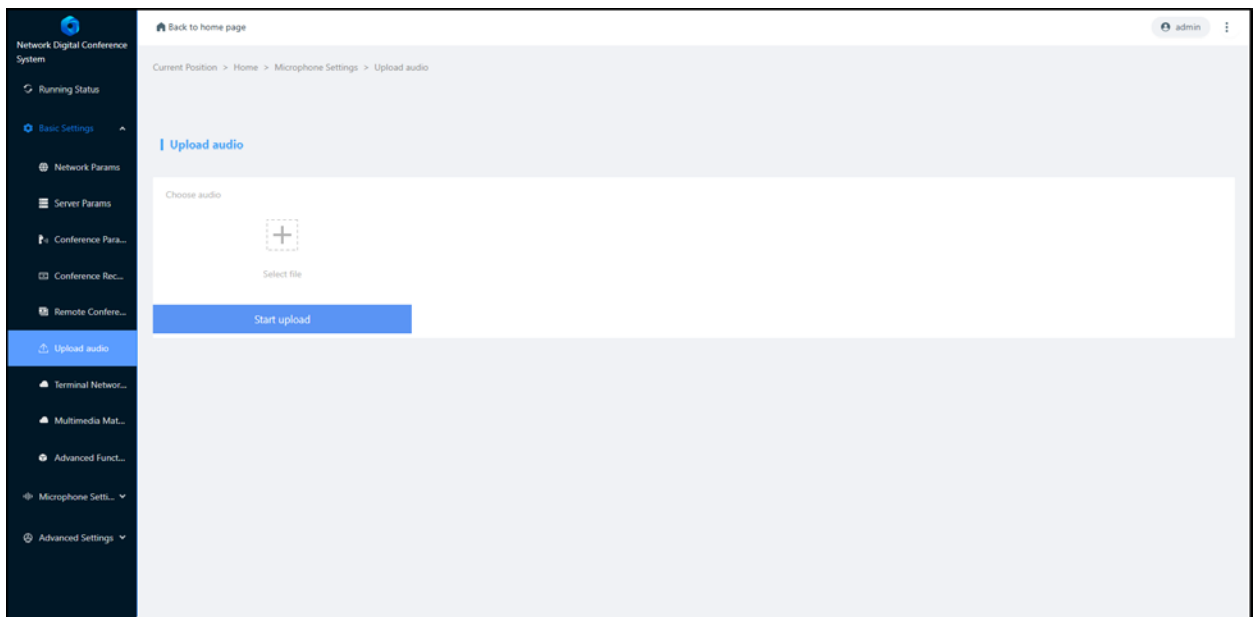


## Upload audio

Fire alarm audio files can be uploaded here.

When the alarm input port of the IP network conference host is triggered, the fire alarm audio will play automatically, and an alarm prompt will pop up on the microphone interface simultaneously.

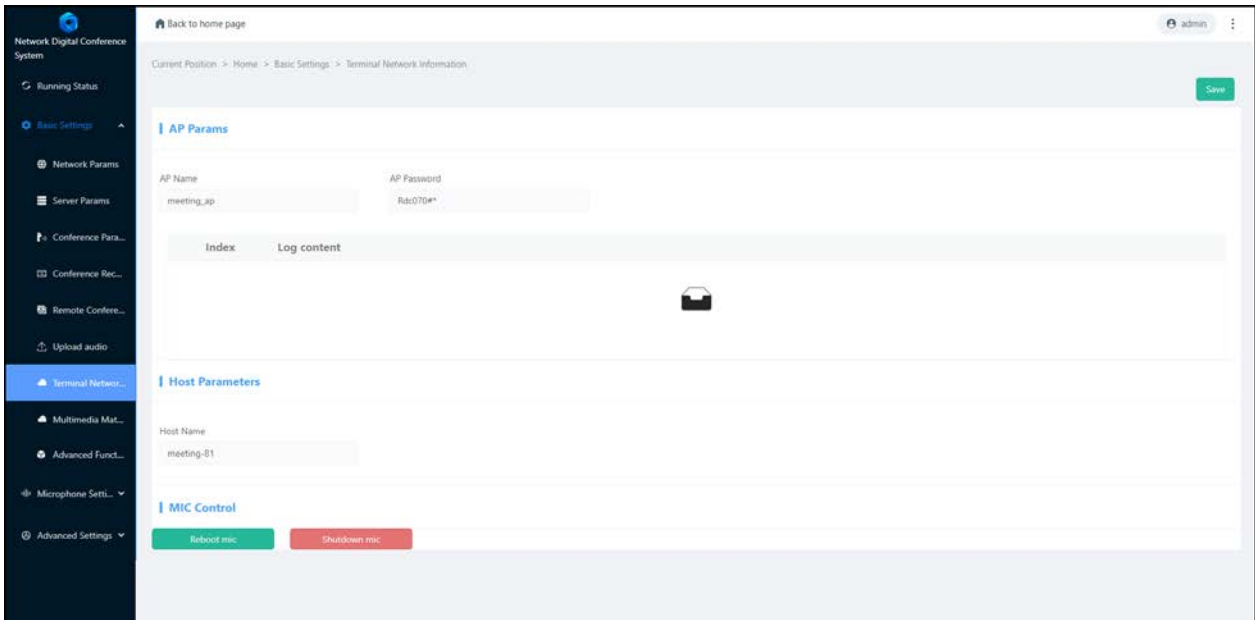
**Note: This function is only supported by the latest version of the microphone firmware.**



## Terminal Network

You can modify the wifi parameters of the wireless microphone. After the microphone is online, click on [Save] to deliver parameters, and the microphone will restart to take effect.

**Note: After modifying the wireless parameters of the wireless microphone, the wireless access point should be modified to the corresponding parameters simultaneously, otherwise, the wireless microphone cannot connect to the corresponding WIFI and cannot be connected to the IP network conference host.**



The relevant settings are as follows:

AP name	Modify the wifi name of the WIFI that wireless microphone connected.
AP password	Modify the wifi password of the WIFI that wireless microphone connected.
Host name	Set the name of the IP network conference host .
MIC control	Click on “Reboot Mic” button to reboot microphones connected to the IP network conference host . Click on “Shutdown Mic” button to make microphones connected to the IP network conference host shutdown.

## Multimedia Matrix

Configure the audio input/output matrix.

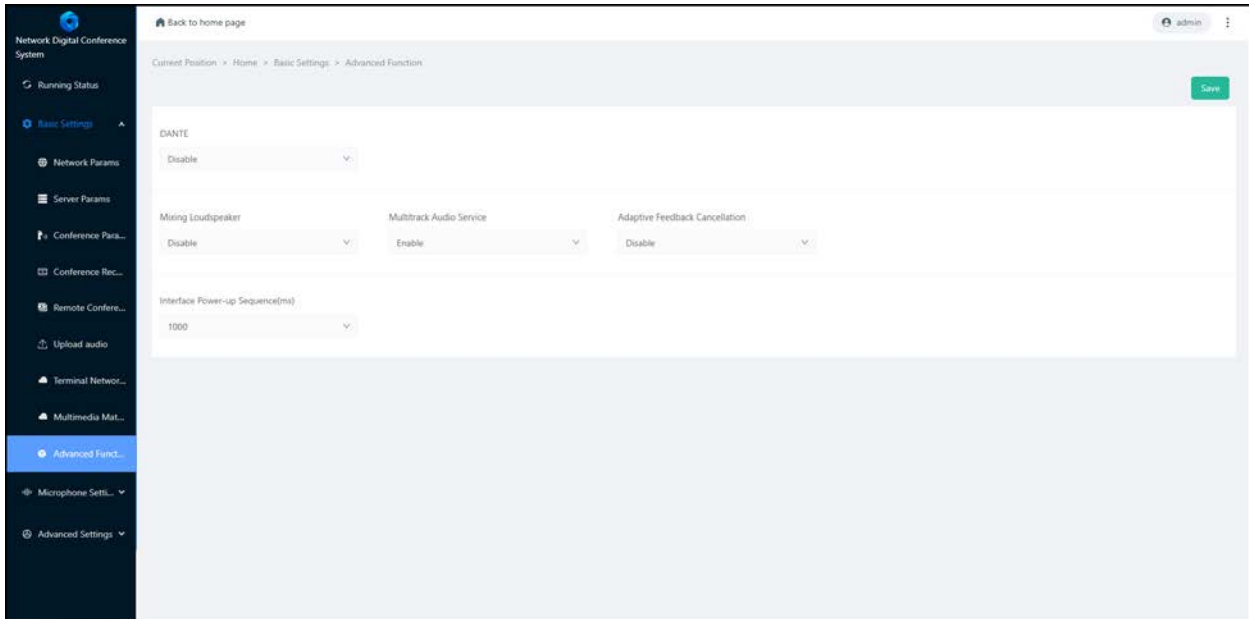
Correspondences between the device's line inputs, USB inputs, Bluetooth inputs, intercom inputs, wireless microphone inputs, wired microphone inputs, Dante Input-1, Dante Input-2, and the device's line output left/right channels, Bluetooth outputs, broadcast/intercom outputs, Dante Output-1, Dante Output-2 can be set via click selection.

The screenshot displays the 'Multimedia Matrix' configuration page. The left sidebar contains navigation options: Running Status, Basic Settings (selected), Network Params, Server Params, Conference Para..., Conference Rec..., Remote Confere..., Upload audio, Terminal Networ..., Multimedia Mat. (highlighted), Advanced Funct..., Microphone Setti..., and Advanced Settings. The main content area shows the 'Multimedia Matrix' with a grid of connections. The 'Input' header is set to '1-8'. The grid has the following structure:

Output	AUX IN	USB IN	BT IN	XCUA IN	WIFI MIC	WIRED MIC	Dante RX-1	Dante RX-2
AUX OUT_L	Selected							
AUX OUT_R	Selected							
BT OUTPUT			Selected					
XCUA			Selected					
Dante TX-1					Selected			
Dante TX-2					Selected			

## Advanced Function

Set terminal advanced function parameters, click on [save] after setting, the parameters will take effect after reboot.



The relevant settings are as follows:

DANTE	Configure whether to enable the Dante interface function. It is disabled by default.
Mixing Loudspeaker	Set whether to enable the speaker function of microphones. After enabling it, the 3.5mm headphone port and the speaker of the wired microphone can output the sound of the microphone in the ring network <b>Note: This feature is only effect in certain models, and the speaker can output sound only when the microphone is not speaking.</b>
Multitrack Audio Service	Reserved.
Adaptive Feedback Cancellation	Configure whether to enable the Adaptive Feedback Cancellation (AFC) function. Once enabled, the algorithm can be leveraged to accurately eliminate interference such as howling and echo caused by positive feedback loops.
Interface Power-up Sequence(ms)	Configure the loop activation interval of microphones.

# Microphone Settings

## Terminal Status

Terminal status interface displays the input volume, status, attribute of units that connected to the IP network conference host, and support to add, modify, delete unit seat.

After units connected, click "Generate all seats" to add unit seat.


### List View:

Microphone number	Seating	Zone Name	Input Volume	Status	Attribute	S/N	Model	Ring number	Wireless	More Actions
1	5	Seat	0dB	Offline	Chairman	350DC716	-	0	No	[Microphone] [Volume] [Edit] [Delete]
2	1	Seat	0dB	Offline	Delegate	350DD1D9	-	0	No	[Microphone] [Volume] [Edit] [Delete]
3	3	Seat	0dB	Offline	Delegate	350EADF4	-	0	No	[Microphone] [Volume] [Edit] [Delete]
4	6	Seat	0dB	Offline	Chairman	35F8038B	-	0	No	[Microphone] [Volume] [Edit] [Delete]
5	2	Seat	0dB	Offline	Delegate	35F8038E	-	0	No	[Microphone] [Volume] [Edit] [Delete]
6	7	Seat	0dB	Offline	Chairman	35F8039C	-	0	No	[Microphone] [Volume] [Edit] [Delete]
7	4	Seat	0dB	Offline	Delegate	35F803A4	-	0	No	[Microphone] [Volume] [Edit] [Delete]

### Network View:

1 Delegate NO.1

2 Delegate NO.2

Click on  button can control microphone speak.

Click the "Modify"  button to modify the information of the unit seat.

**Zone Name:** You can customize the name of the unit seat.

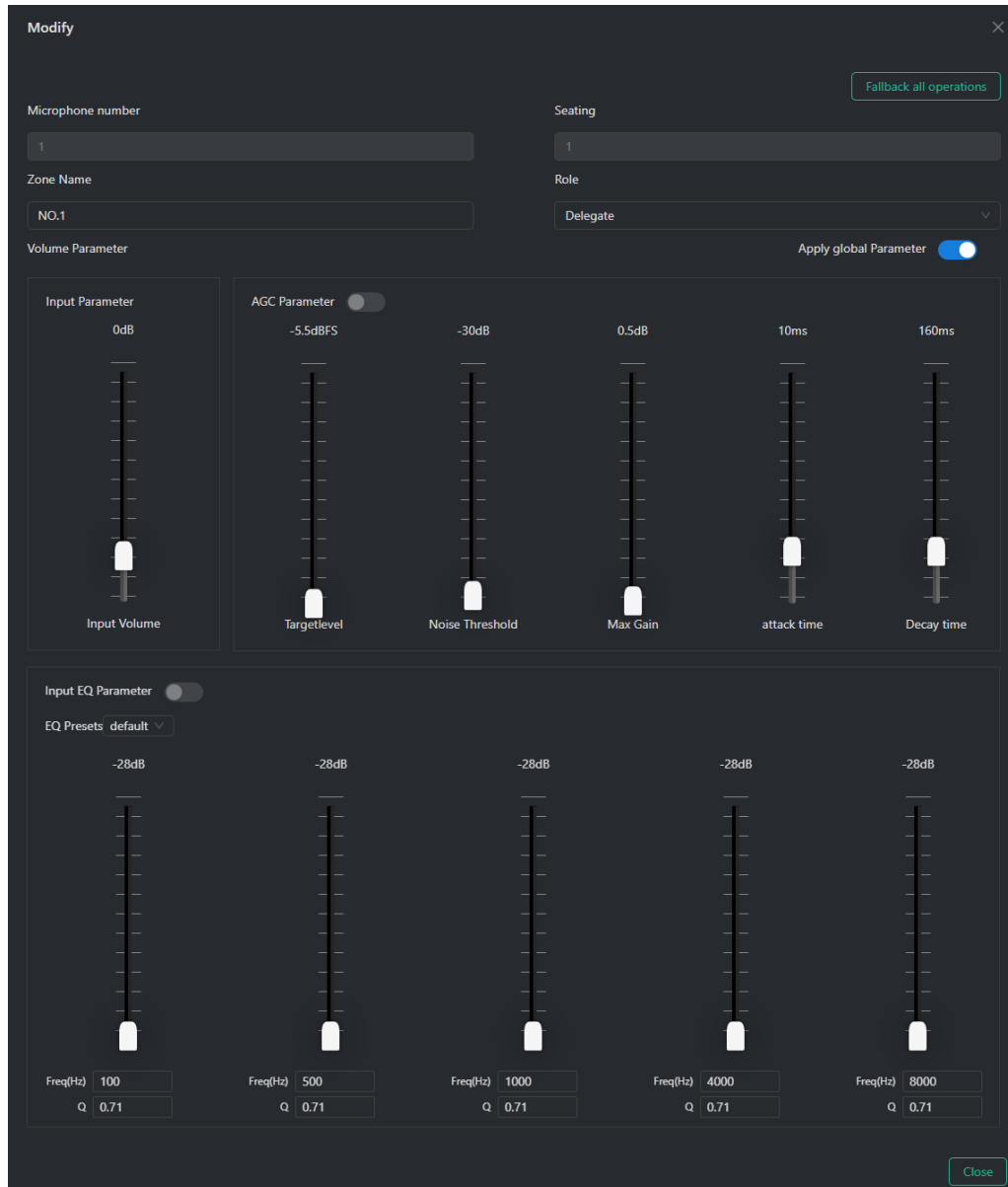
**Role:** "Host", "Chairman" ,"Represent" are optional. (Note: only "Represent" is optional for delegate units. "Host", "Chairman" and "Represent" are optional for chairman units.)

**Input parameters:** Set the unit seat input volume.

**AGC parameters:** The AGC parameters can be customized, no need to modified if there is no special situations.

**Input EQ parameter:** it can adjust the sound effect of the unit.

**Note:** EQ value must be adjusted by personnel with relevant professional knowledge, non-professional personnel please do not adjust it at will, otherwise it will lead to a poor sound quality.



Click on the “+” button beside wireless microphone, you can view the power, charging status, firmware version of wireless microphone, and also the wifi Ssid, password, wiifi signal strength, wifi channel of the AP that wireless microphone connected.

5	5	Seat5	0dB	Online	Delegate	350AC438	5252D	0	Yes				
Power:		Signal: 60		Charging:		Ssid: meeting_ap							
Psk: spon888888		IP Address:		Version: V1.0.4_20240226		Channel: 108							

## PTZ Settings

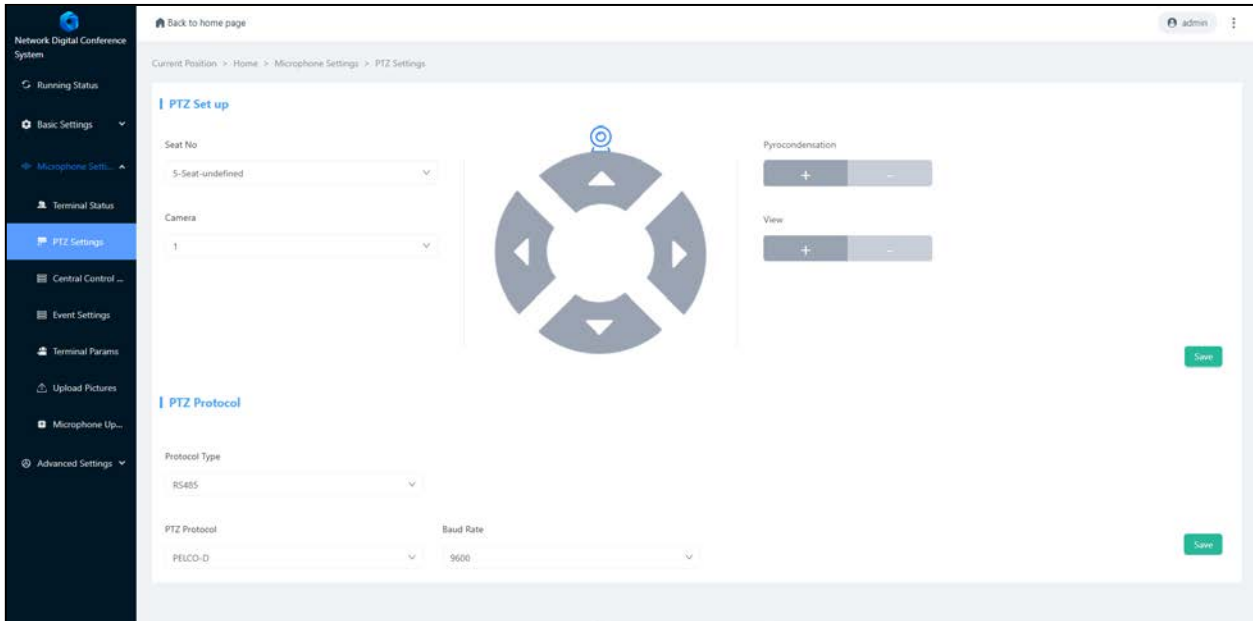
PTZ set up:

In this interface, the preset position of the camera connected to the IP network conference host and the unit seat can be set. After the unit seat is set, when the unit seat speaks, the camera will be turned to the unit seat and display the screen of the unit seat.

PTZ protocol:

Select the protocol type, protocol, and baud rate for the camera that the IP network conference host connected.

Protocol Type: RS232, RS485, TCP, UDP are optional.



## Central Control Settings

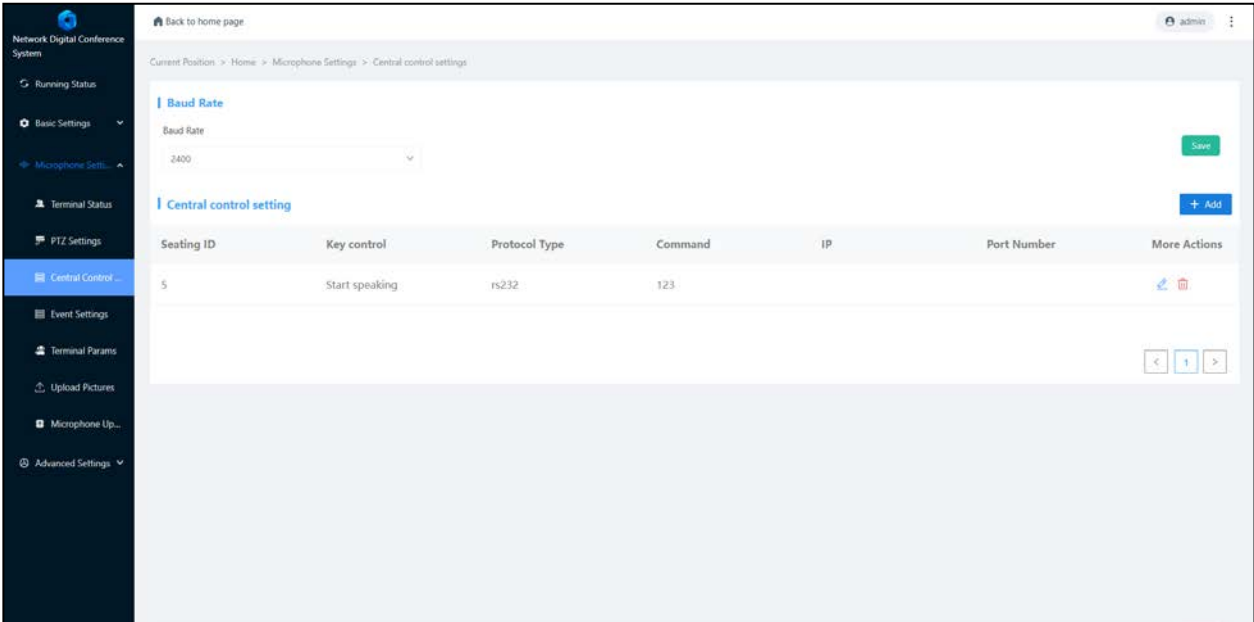
Conference start command and speak end command can be customized according to the matrix connected to the IP network conference host. It will take effect in time.

**Protocol type:** RS232, RS485, UDP, TCP are optional.

**Command:** It can transfer ASCII and hexadecimal codes. The hexadecimal format begins with \x.

**Baud rate:** Set the baud rate according to the baud rate of the matrix connected. **(Note: The baud rate only applies to RS232 and RS485 protocols)**

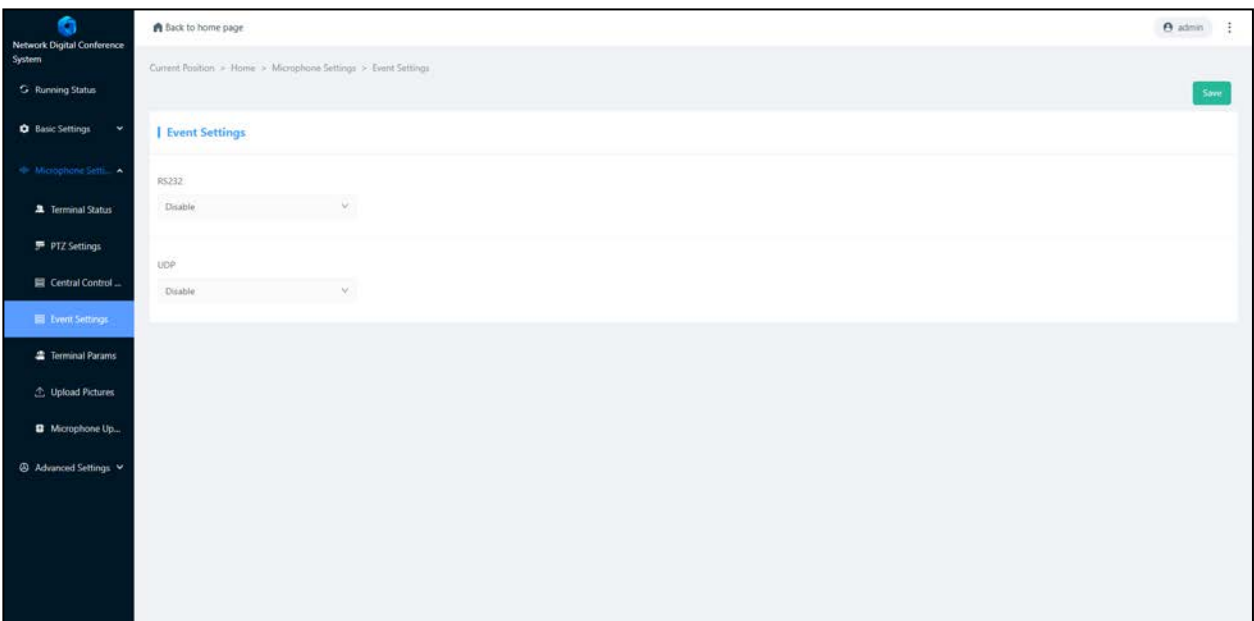
Click on [Save] after modified, the parameter modification takes effect in time.



## Event Settings

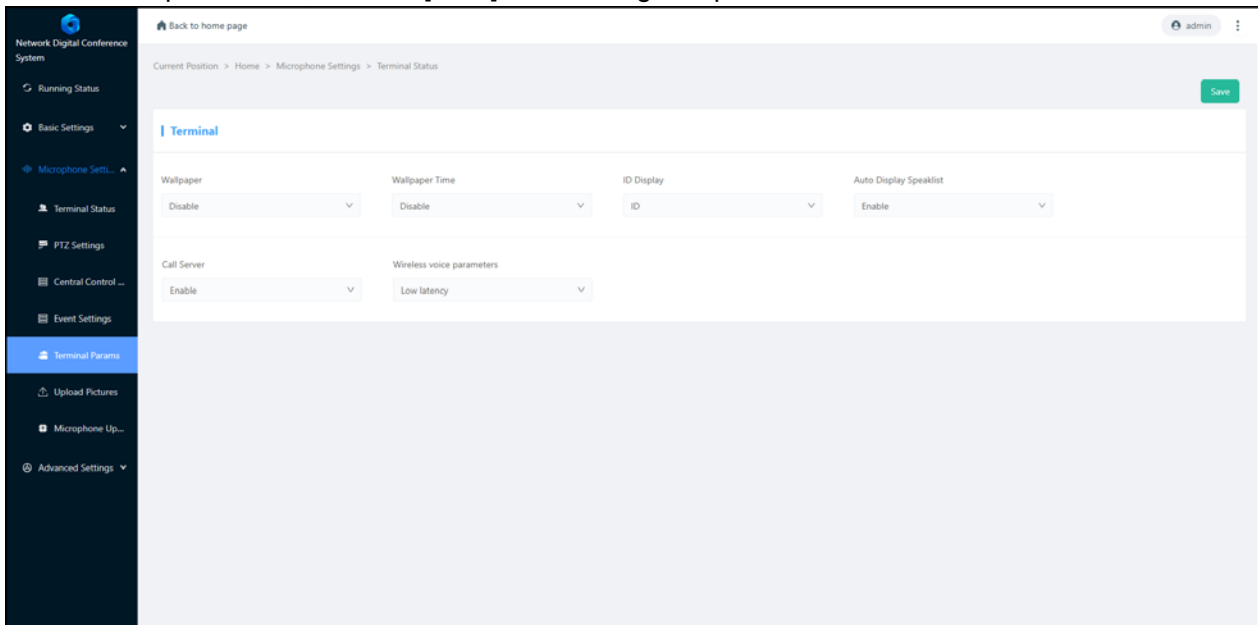
**RS232:** Configure whether to enable the RS232 interface function.

**UDP:** Configure whether to enable the UDP protocol function.



## Terminal Params

Set terminal parameters, click on [save] after setting, the parameters take effect in time.



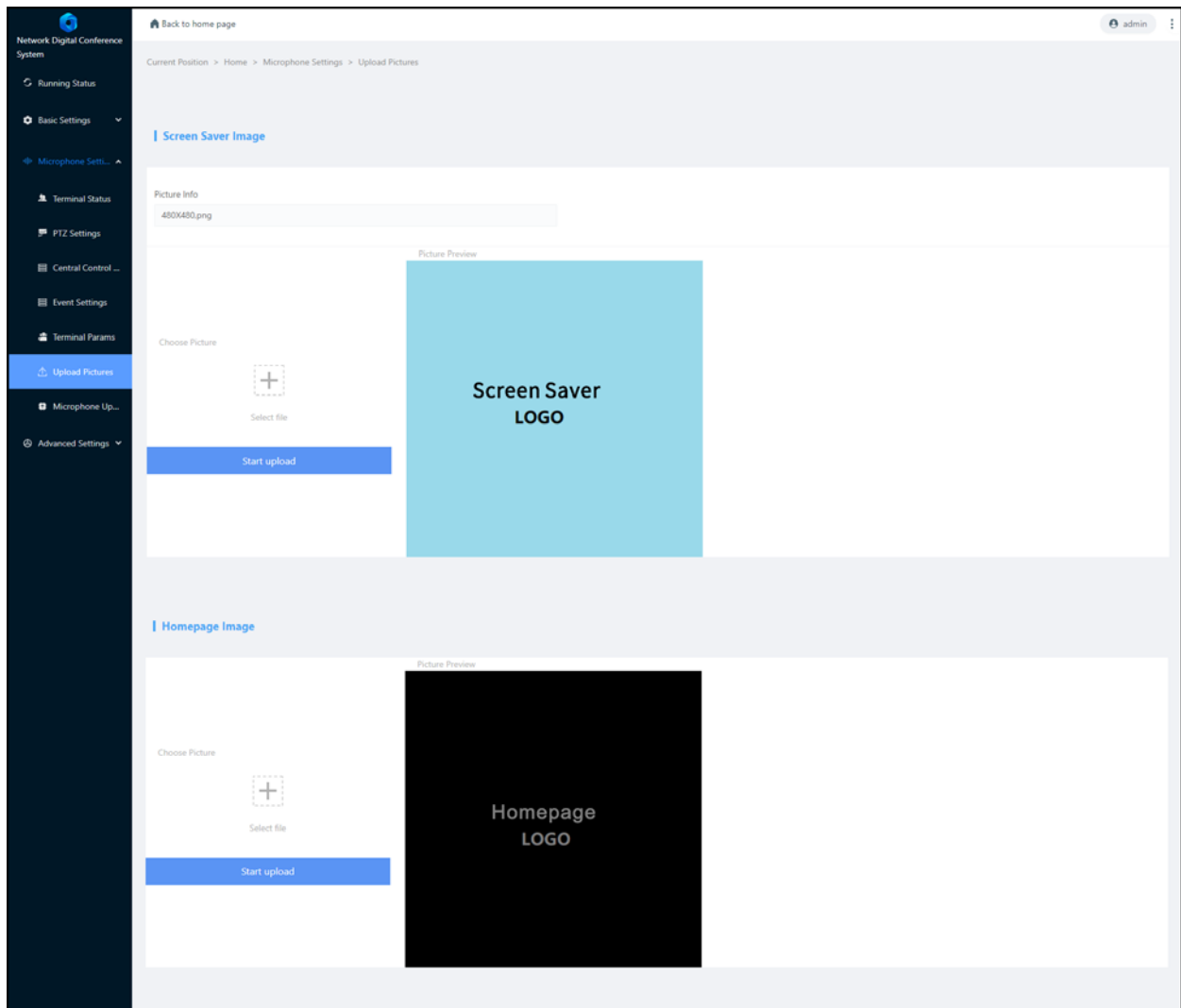
The relevant settings of terminal parameters are as follows:

Wallpaper	Set whether to enable the screensaver wallpaper.
Wallpaper Time	Sets whether to enable screensaver clock.
ID Display	Set the microphone ID or ICON is displayed in the speaker list.
Auto Display Speaklist	Set whether to automatically display speaker list after microphone has finished speak.
Call Server	Set whether to enable call server function,once enabled, the call server module will appear on the microphone interface.
Wireless voice parameters	Set wireless voice parameters, low latency, balanced,high quality are optional.

## Upload Pictures

**Screen Saver Image:** Upload the picture of microphone screen saver here.

**Homepage Image:** Upload the picture of microphone home screen here.

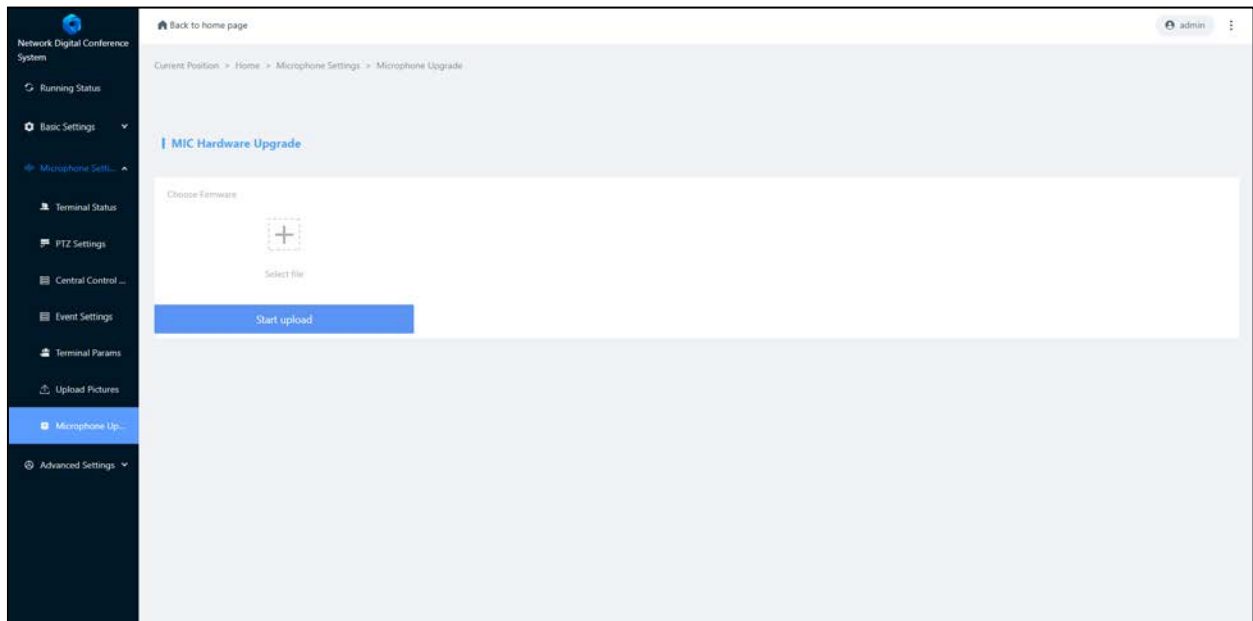


## Microphone Upgrade

You can upgrade the firmware version of microphones here.

Click on "+ Select File" button, select the firmware upgrade file provided by the manufacturer, and click the "Start Upload" button to start the upgrade.

**Note: Do not power off during the upgrade process, otherwise it may lead to the failure of the upgrade and the failure of the device. The upgrade process takes about 120s. After the upgrade, the device and web page will be restarted automatically. (Do not upgrade firmware unless you have a special need)**

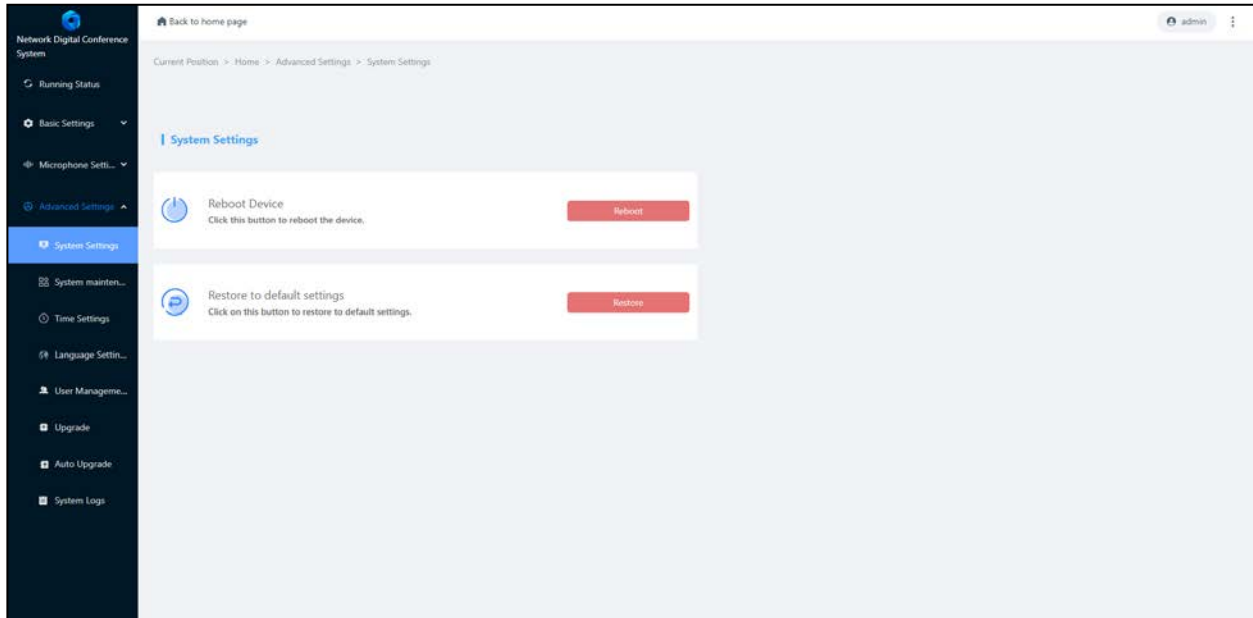


## Advanced Settings

### System Settings

**Reboot:** Click on this button will reboot the device.

**Restore:** Click on this button to restore all the parameters of the device to the factory Settings (please use it with caution)



### System maintenance

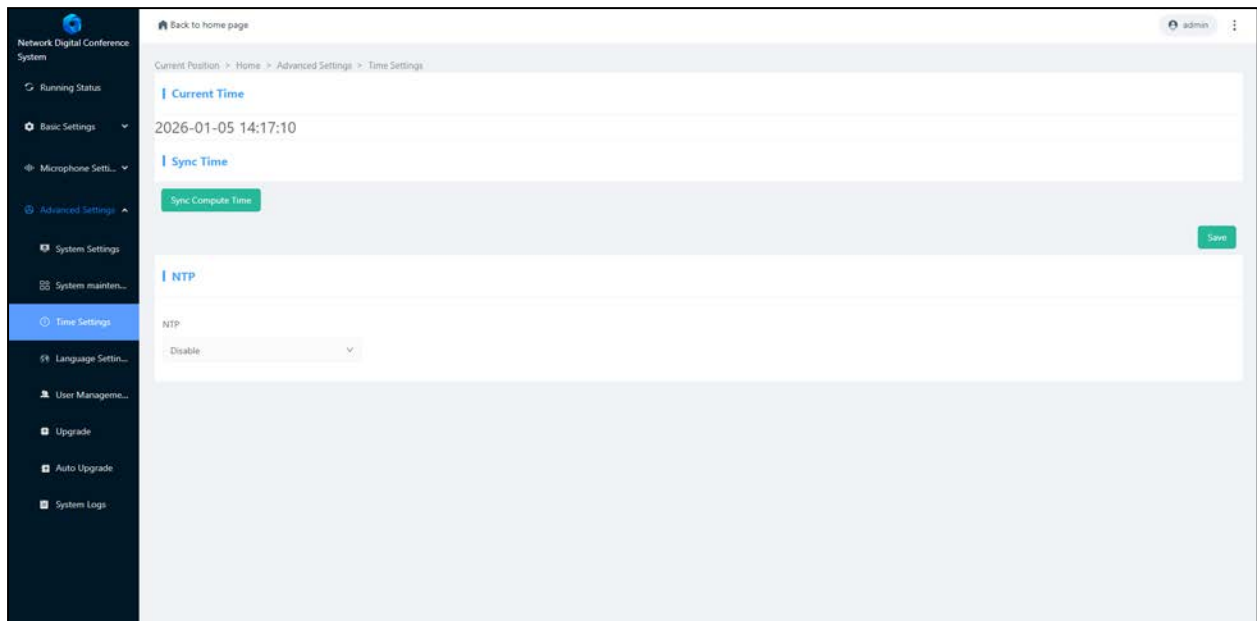
Configure the system maintenance time for the IP network conference host. Once the time is set, the IP network conference host will restart at the specified time.



## Time Settings

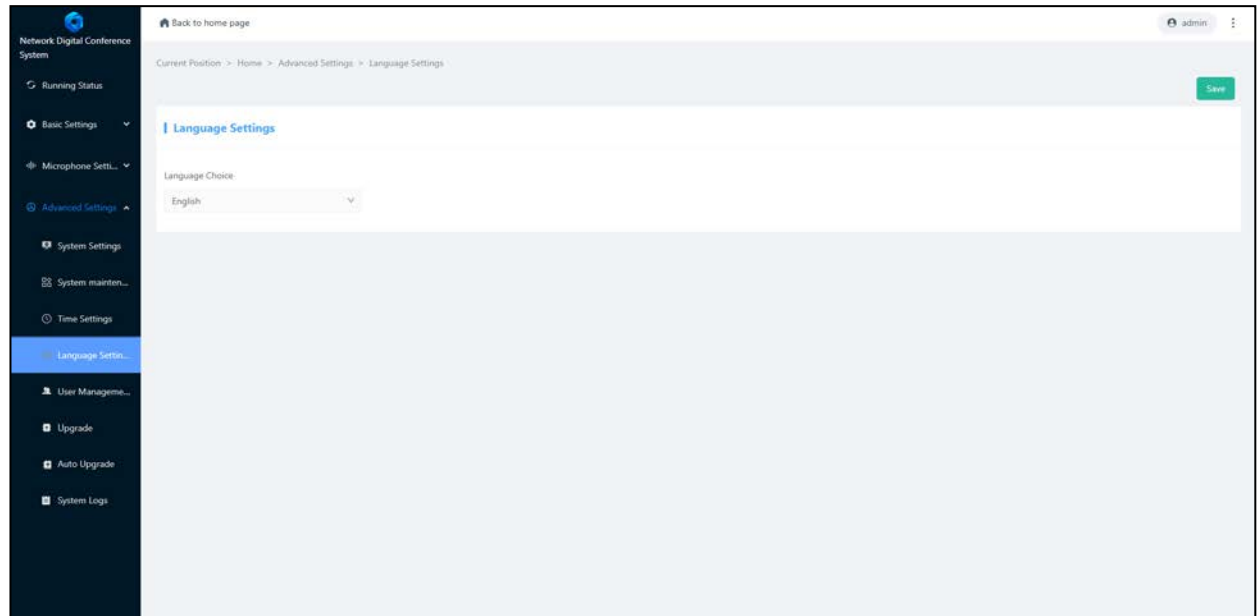
Click the "Sync Computer Time" button, the system will synchronize the computer time.

**NTP:** Set whether to enable the NTP time calibration function. After enabling it, set the NTP server address.



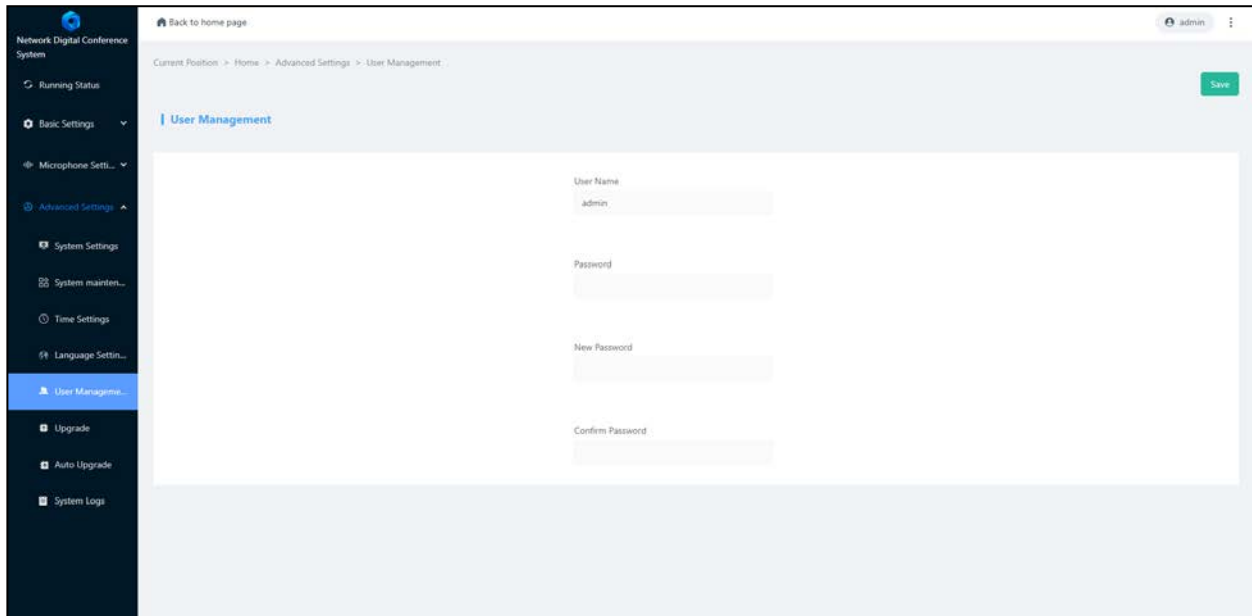
## Language Settings

You can set the display language here, it supports Chinese, English, Italian, Japanese etc. After save the setting, rebooting the web page to take effect.



## User Management

You can change the password for logging into the WEB page in here. After save the password change, rebooting the web page to take effect.



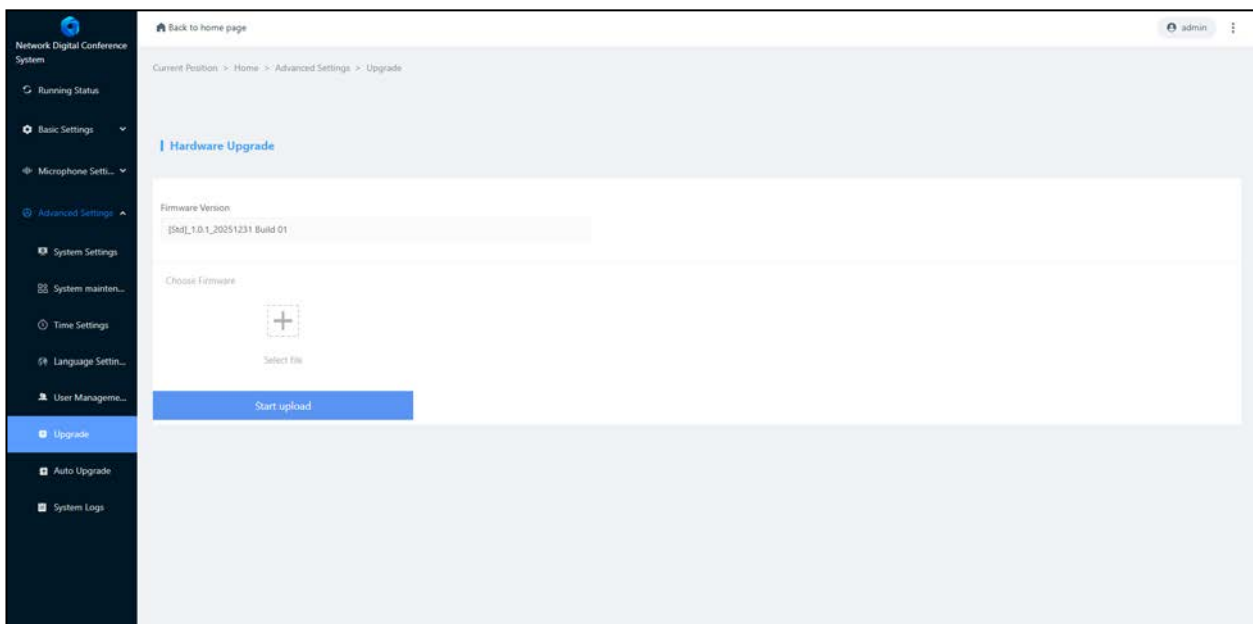
The screenshot displays the 'User Management' page of a 'Network Digital Conference System'. The interface includes a dark sidebar with navigation options such as 'Running Status', 'Basic Settings', 'Microphone Sett...', 'Advanced Settings', 'System Settings', 'System mainten...', 'Time Settings', 'Language Sett...', 'User Managemen...', 'Upgrade', 'Auto Upgrade', and 'System Logs'. The 'User Managemen...' option is currently selected. The main content area shows a form with the following fields: 'User Name' (containing 'admin'), 'Password', 'New Password', and 'Confirm Password'. A green 'Save' button is located in the top right corner of the form area. The breadcrumb trail at the top indicates the current position: 'Home > Advanced Settings > User Management'.

## Upgrade

You can upgrade the firmware version of the IP network conference host and microphones here.

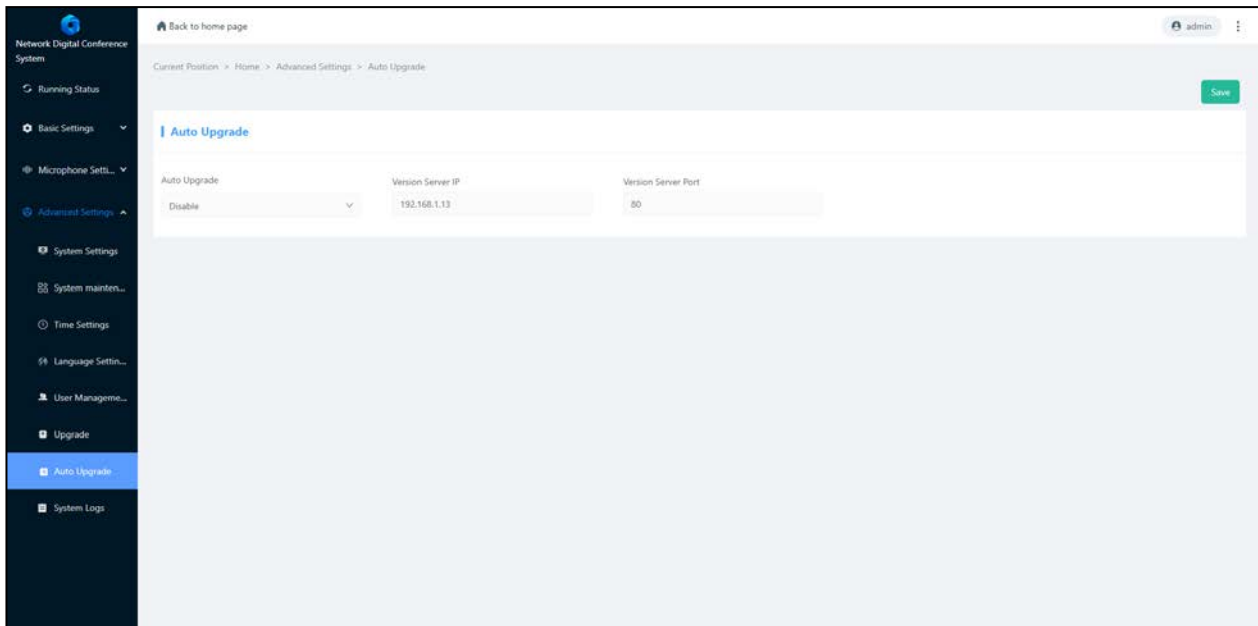
On the Upgrade Firmware page, click on "+ Select File" button, select the firmware upgrade file provided by the manufacturer, and click on the "Start Upload" button to start the upgrade.

**Note: Do not power off during the upgrade process, otherwise it may lead to the failure of the upgrade and the failure of the device. The upgrade process takes about 120s. After the upgrade, the device and web page will be restarted automatically. (Do not upgrade firmware unless you have a special need)**



## Auto Upgrade

Set the auto upgrade related parameters of the device, click [Save] after modified, and the parameter modification will take effect after restart.

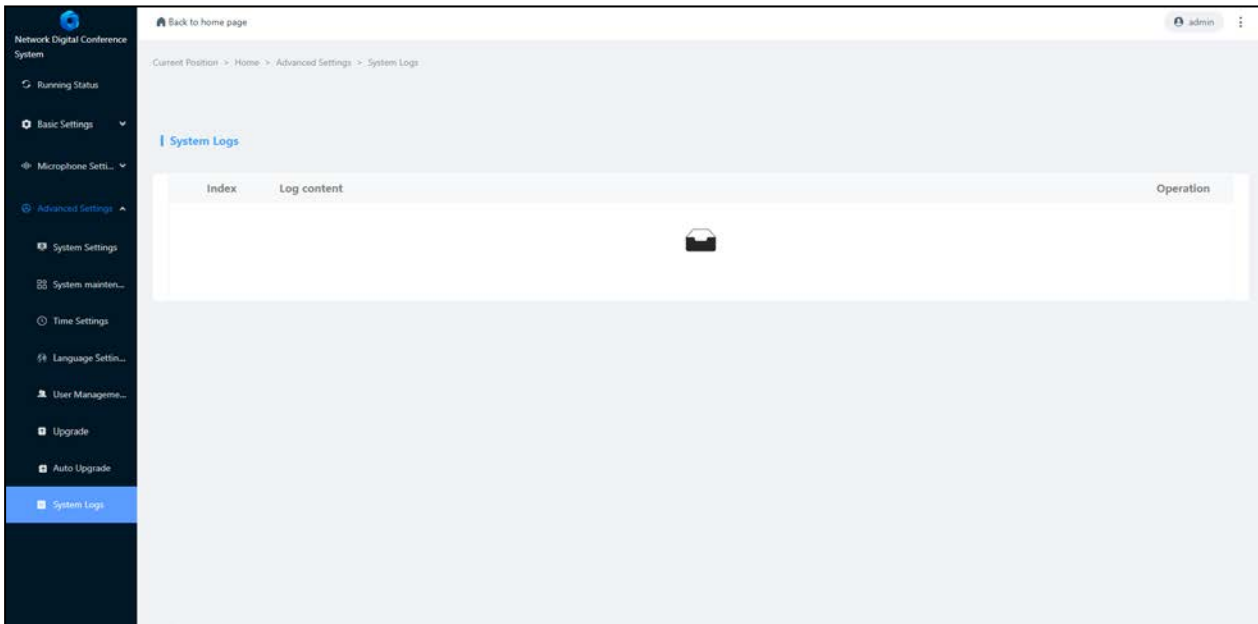


The relevant settings of auto upgrade are as follows:

Auto upgrade	Set whether to enable auto upgrade function. When enabled, the central unit will automatically get the latest firmware from the version server, and upgrade.
Version server IP, port	Fill in the IP address and port of the version server.

## System Logs

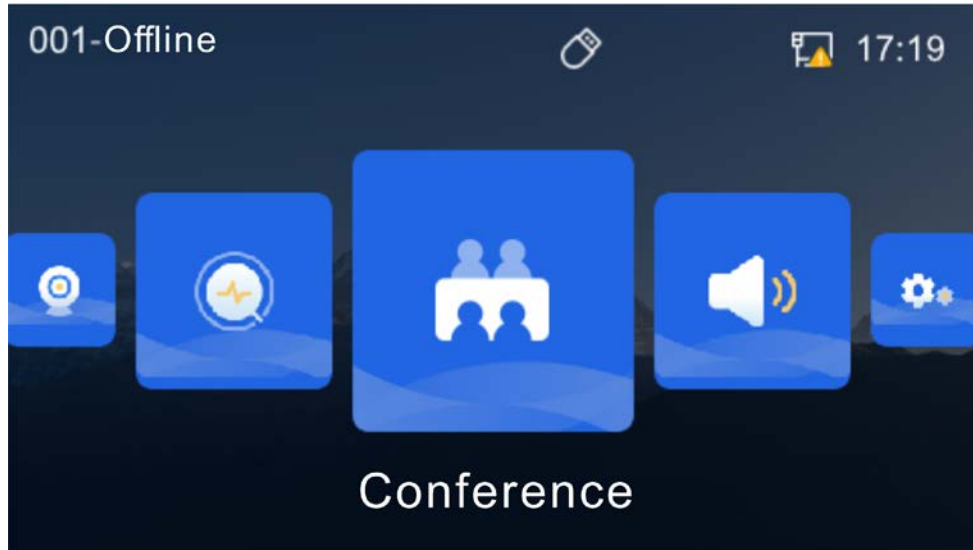
IP network conference host can automatically record the running process and generate logs, and support users to download system logs.



### 3.3 Basic Function

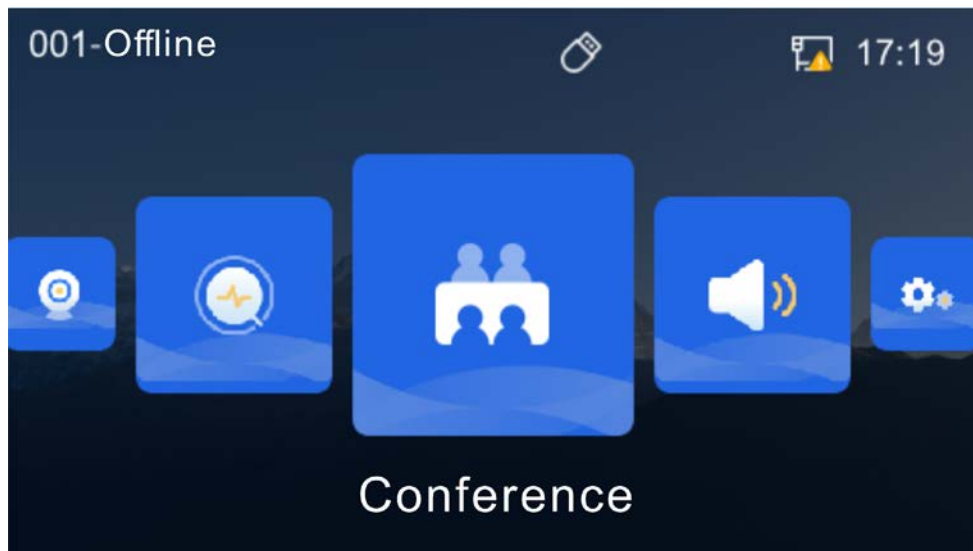
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On the device's touch screen, you can access and configure conference settings, detection settings, camera settings, volume settings, record settings, system settings and more by swiping left or right and tapping the corresponding icons.



#### Conference

On the device's touch screen, swipe the icons left or right to navigate to the Conference Settings icon, then tap it to configure parameters such as the conference mode and maximum number of speakers.



## Conference mode

**Override Mode:** When the number of speakers has reached to the maximum number of speakers, there are unit seats who want to join the conference, then it needs unit seats to exit the conference. In fifo conference mode, the first unit seat allowed to speak will be kicked out.

**(Note: The "Maximum Speakers" in this mode includes the chairman unit. The chairman unit is not subject to the "Maximum Speakers")**

**Apply Mode:** in this mode, if a "represent" wants to join the conference, it needs the approval of the "chairman". Only one "represent" can speak at a time, other "represent"s who apply for speak will in queue

When the number of speakers has reached to the maximum number of speakers, it needs speakers to press the speaker button to exit the conference, and the next unit seat can speak.

**(Note: The "maximum number of speakers" in this mode includes the chairman unit.)**

**Chairman Mode:** in this mode, only chairman units can speak.

**(Note: The "Maximum Speakers" is effective to chairman unit . Delegate unit has no authority to speak in this mode)**

**Limited-Speaker Mode:** When the number of speakers has reached to the maximum number of speakers, there is a "chairman" who wants to speak, the "represent" who allows to speak first will be kicked out of speak first. If the current speakers are all "chairman", the "Maximum Speakers" is ineffective.

**(Note: The "Maximum Speakers" in this mode includes the chairman unit. )**

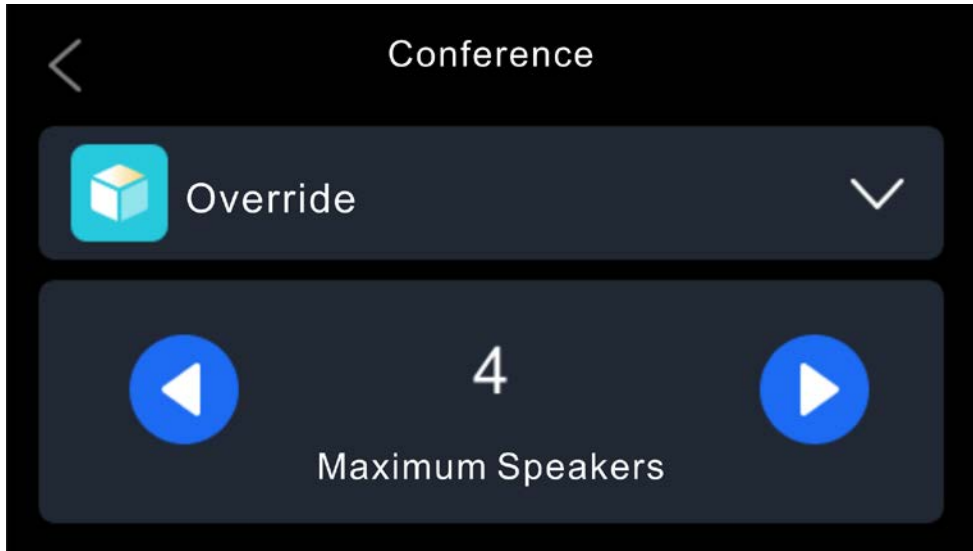
**Time-limited mode:** when select "Time-limited mode", you need to set "Maximum speaker time", when a "represent" start to speak , it start the timer, and other "represent" can't speak. For "chairman", they can press speak button to speak at any time.

**(Note: The "Maximum Speakers" in this mode is ineffective. When speakers of chairman reaches to 9, "Override mode" will be followed among chairman. )**

**Voice-activated Mode:** Users can customize the mute timeout(e.g., 15 seconds) and voice activation threshold (e.g., -15dB) for automatic microphone input monitoring: the microphone will be muted automatically when the detected sound pressure level remains below -15dB for 15 consecutive seconds, and unmuted automatically once the volume exceeds -15dB. This enables fully automatic speaking management without the need for manual key presses.

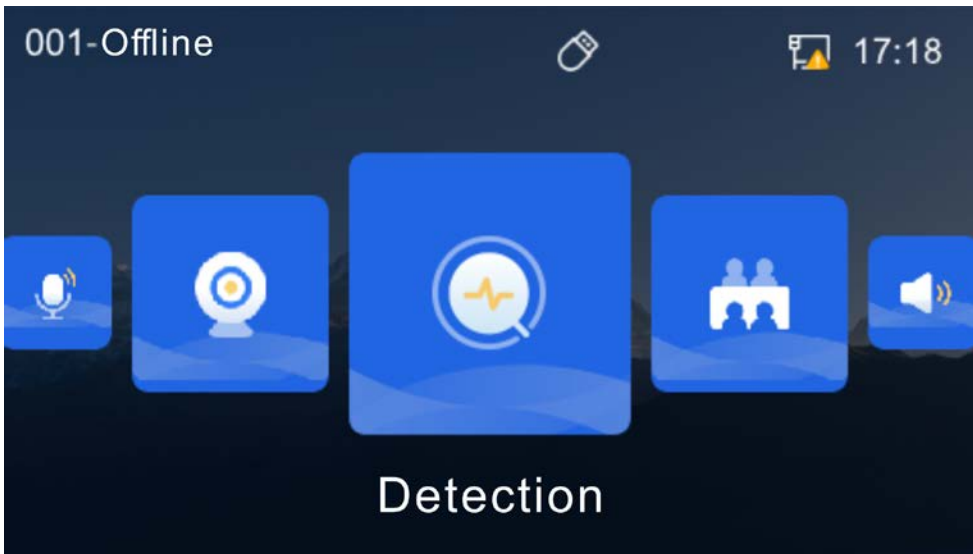
### Maximum number of speakers:

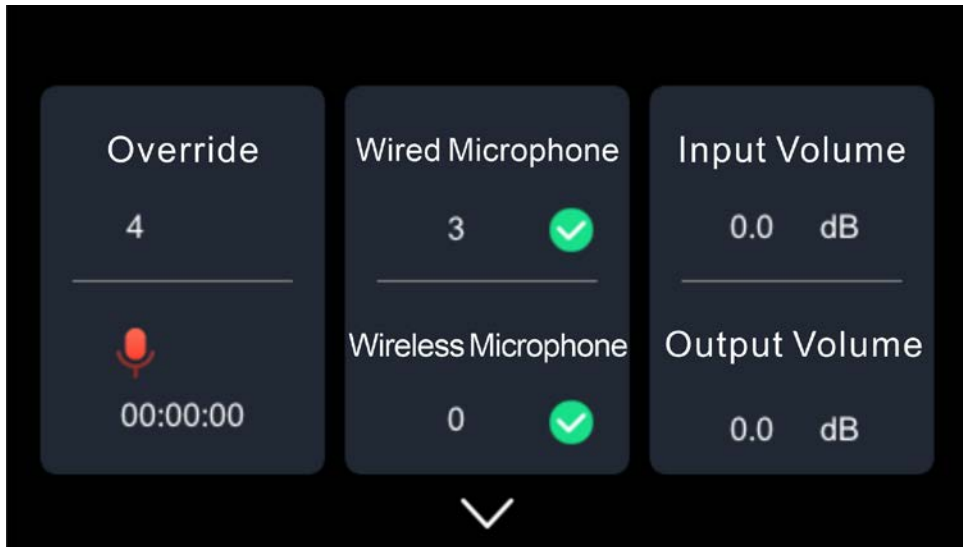
Set the maximum number of speakers for a Conference. **(Note:When all speakers are "chairman", the "Maximum speakers" limit is invalid in other conference modes except "Chairman Mode". In "Override Mode" and "Limited-Speaker mode" , when the number of speakers reaches to 10, the "First In First Out" will be implemented; in "Apply mode" and "Time-Limited mode" )**



**Detection**

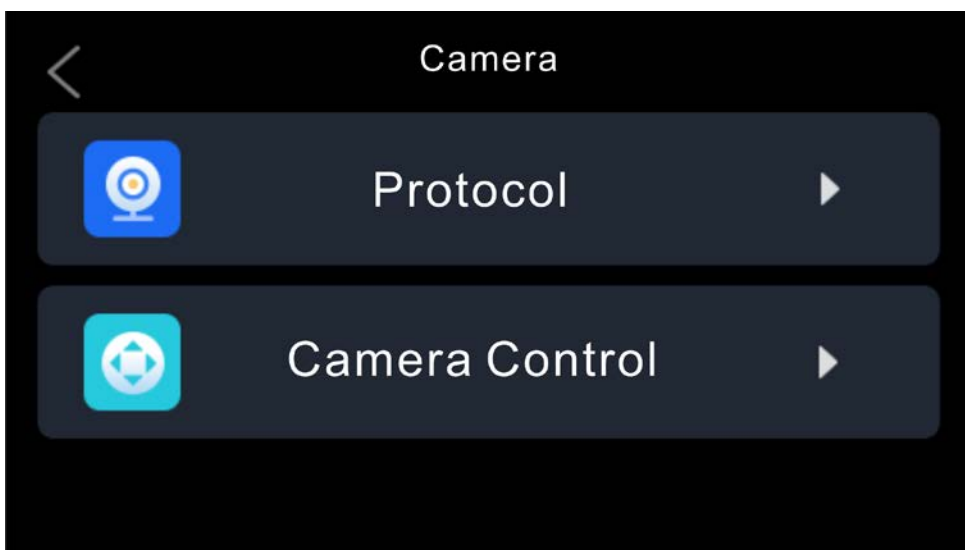
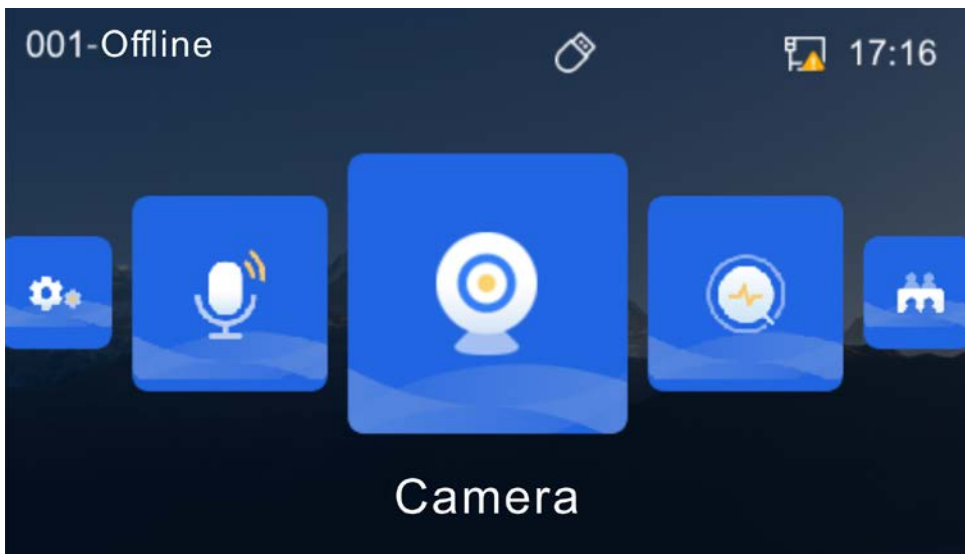
On the device's touch screen, swipe the icons left or right to navigate to the Detection Settings icon, then tap it to view in real time the current conference mode, the connection status of microphones connected to the IP network conference host, as well as the volume levels of the current inputs and outputs.





### Camera

On the device's touch screen, swipe the icons left or right to navigate to the Camera Settings icon, then tap it to configure the protocols of the cameras connected to the IP network conference host, as well as the preset positions for the cameras and microphone seats.



### Camera Protocol

Select the protocol and baud rate used by the cameras connected to the IP network conference host.



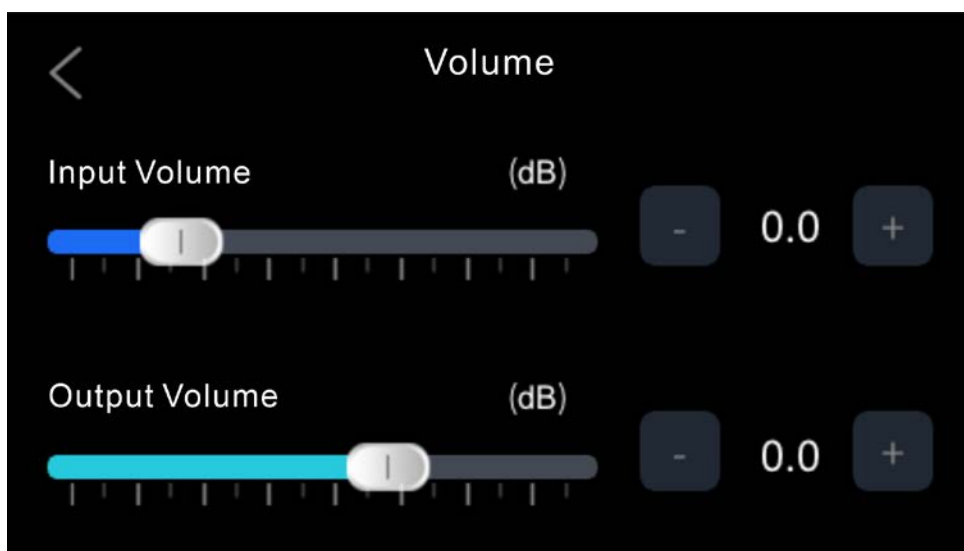
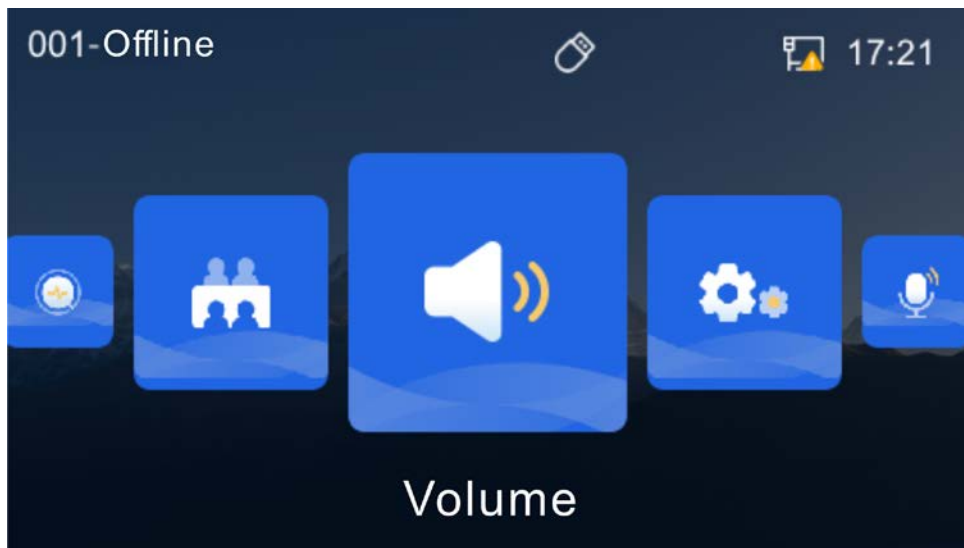
### Camera Control

On this interface, you can configure the preset positions for the cameras and microphone seats connected to the IP network conference host. Once configured, when a microphone seat is activated for speech, the camera will pan to the corresponding microphone seat and display its live view.



## Volume

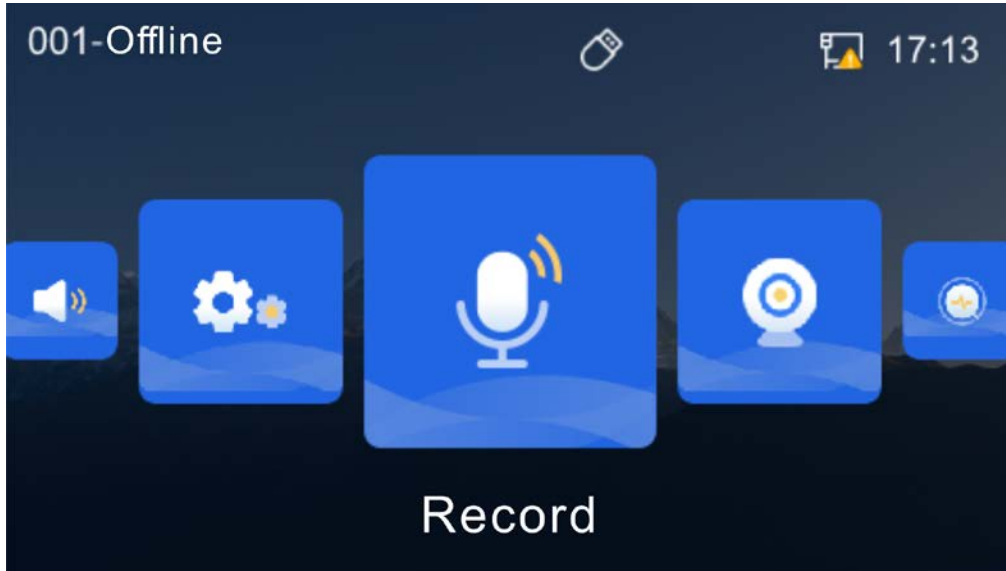
On the device's touch screen, swipe the icons left or right to navigate to the Volume Settings icon, then tap it to adjust the input and output volume levels of the microphone seats connected to the IP network conference host.



## Record

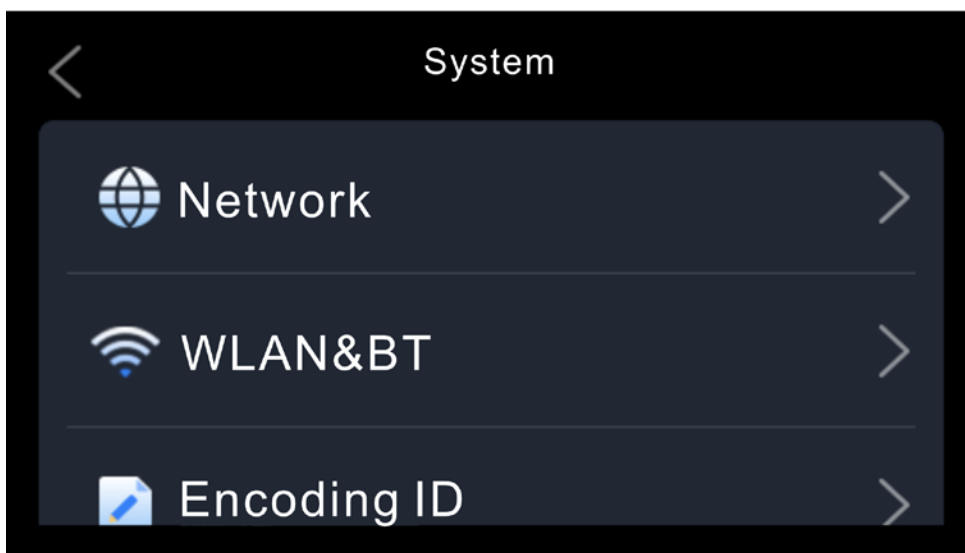
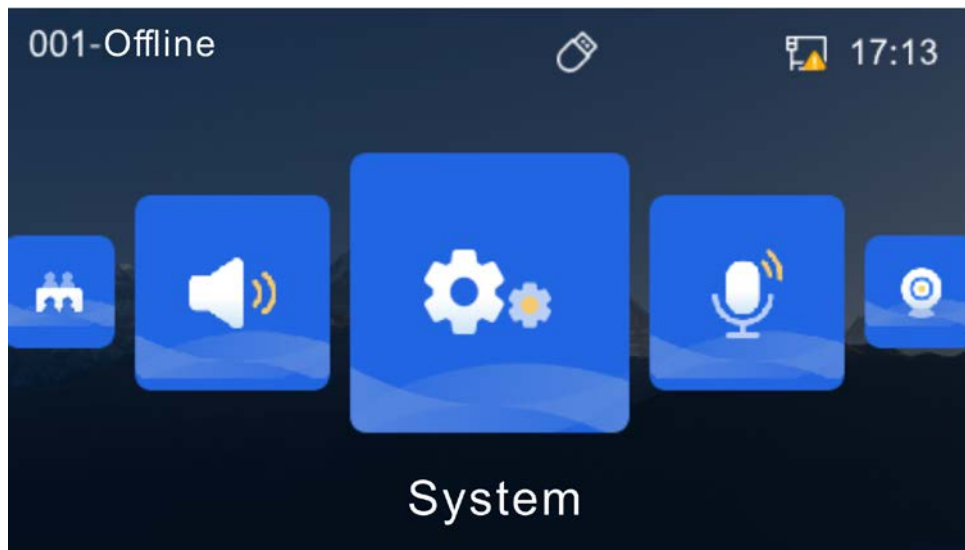
On the device touch screen, slide the icon left or right to locate "Recording Settings", then tap the "Recording Settings" icon. Insert a USB drive to record audio from microphone seats connected to the IP network conference host. Tap the "🗑️" icon to safely eject the USB drive.

**(Note: 1. The inserted USB flash drive must be in FAT 32 format; 2. It is recommended to remove the USB flash drive after the recording stops, otherwise it may cause damage to the USB flash drive.)**



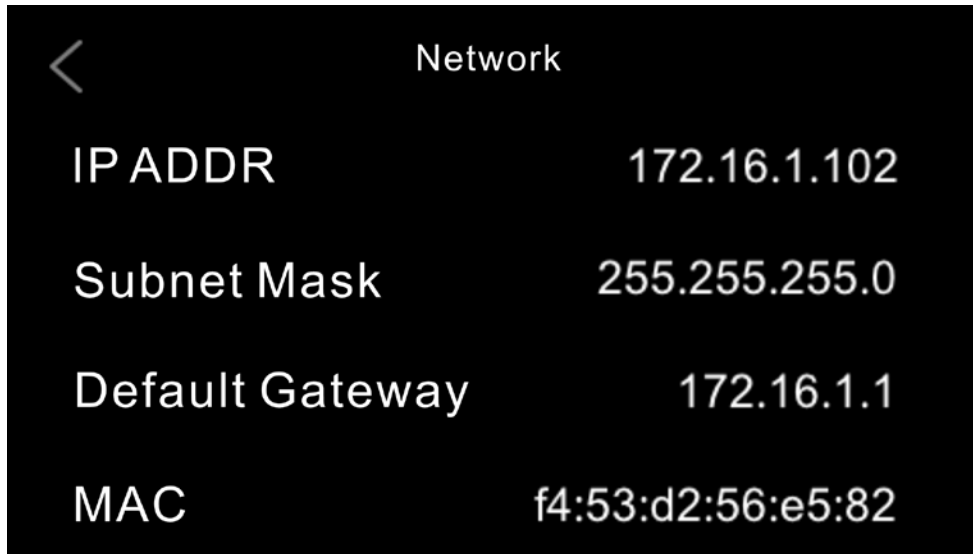
## System

On the device's touch screen, swipe the icons left or right to navigate to the System Settings icon, then tap it to view the network information of the IP network conference host and configure settings such as WLAN and Bluetooth.



## Network

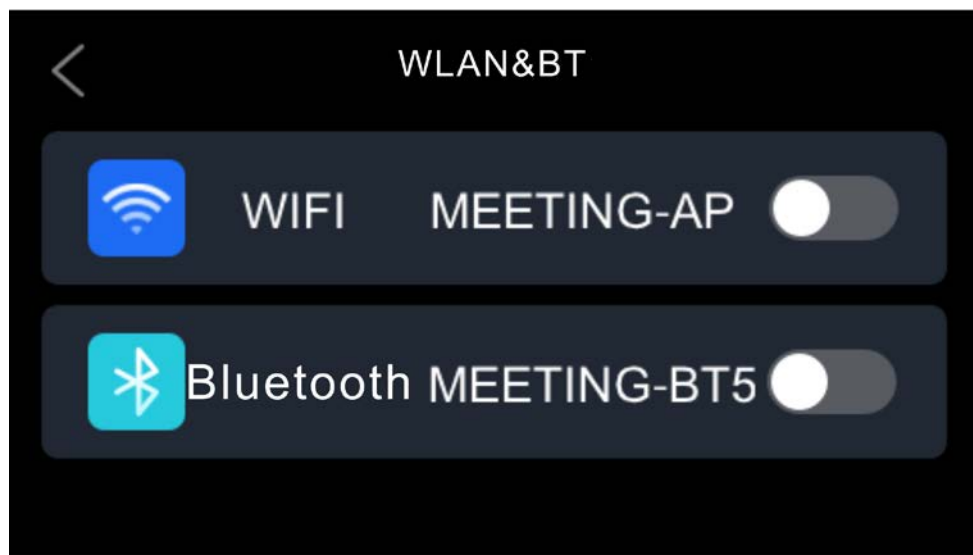
You can view the network information such as IP address, subnet mask and gateway of the IP network conference host.



## WLAN&BT

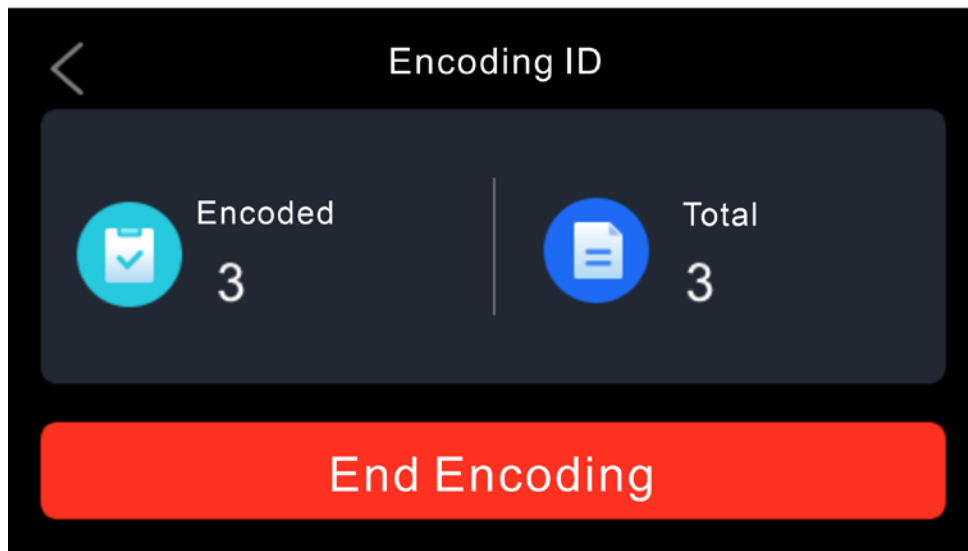
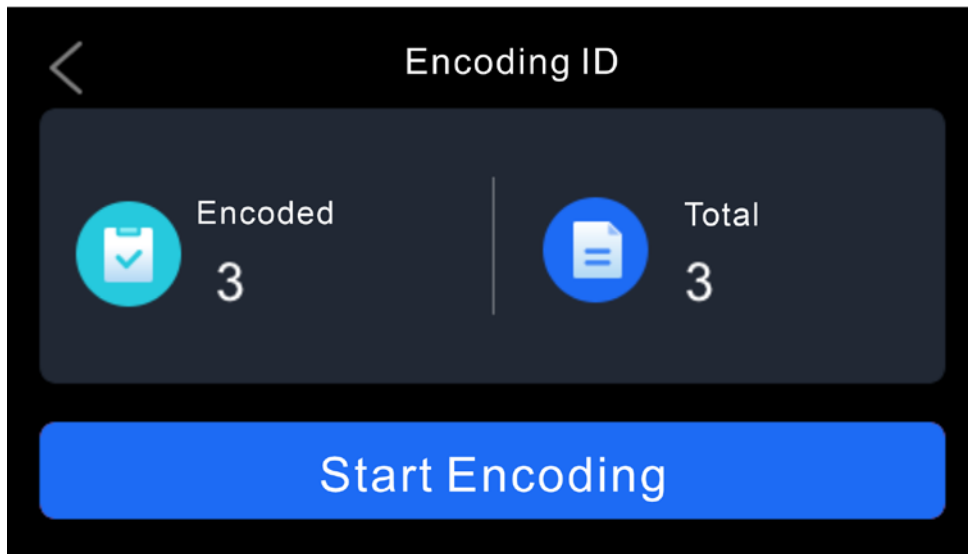
The WiFi and Bluetooth switches of the IP network conference host can be turned on or off on this interface. You need to set the WiFi and Bluetooth names of the IP network conference host via the web interface.

**(Note: The default WiFi password is "12345678", and the default Bluetooth password is "0000".)**



### Encoding ID

Click the "Start Encoding" button to manually assign numbers to the microphones. After encoding is completed, click "End Encoding".



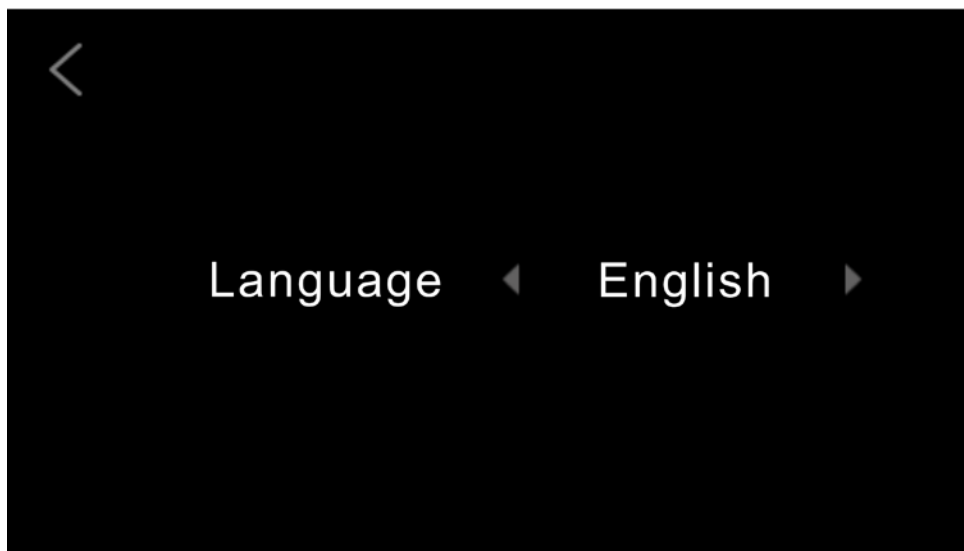
## Help Center

You can view the version information of the IP network conference host.



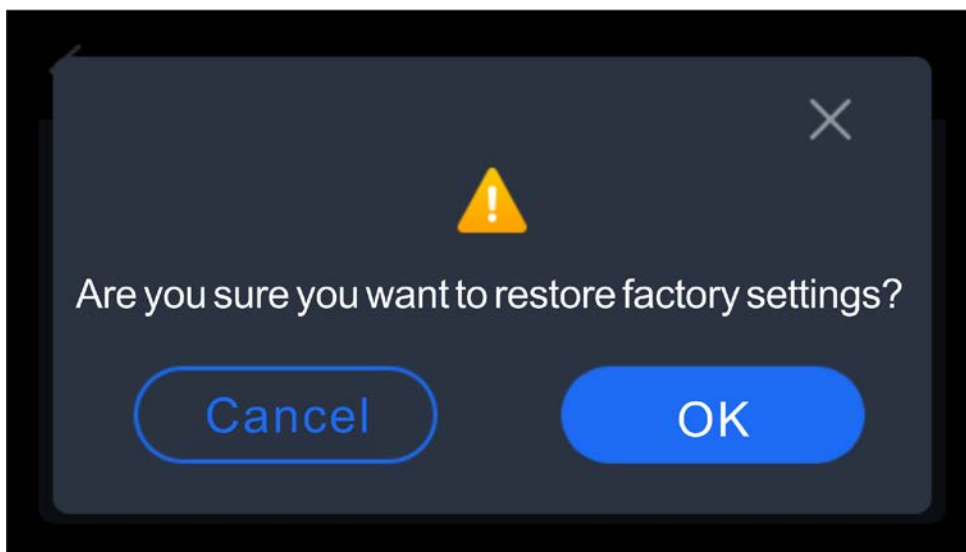
## Language

The display language of the device can be switched, supporting Simplified Chinese, Traditional Chinese, English, Russian, Japanese, and Italian, etc.



## Factory reset

Click on "OK" button to restore the device to its factory settings.



## Call Server

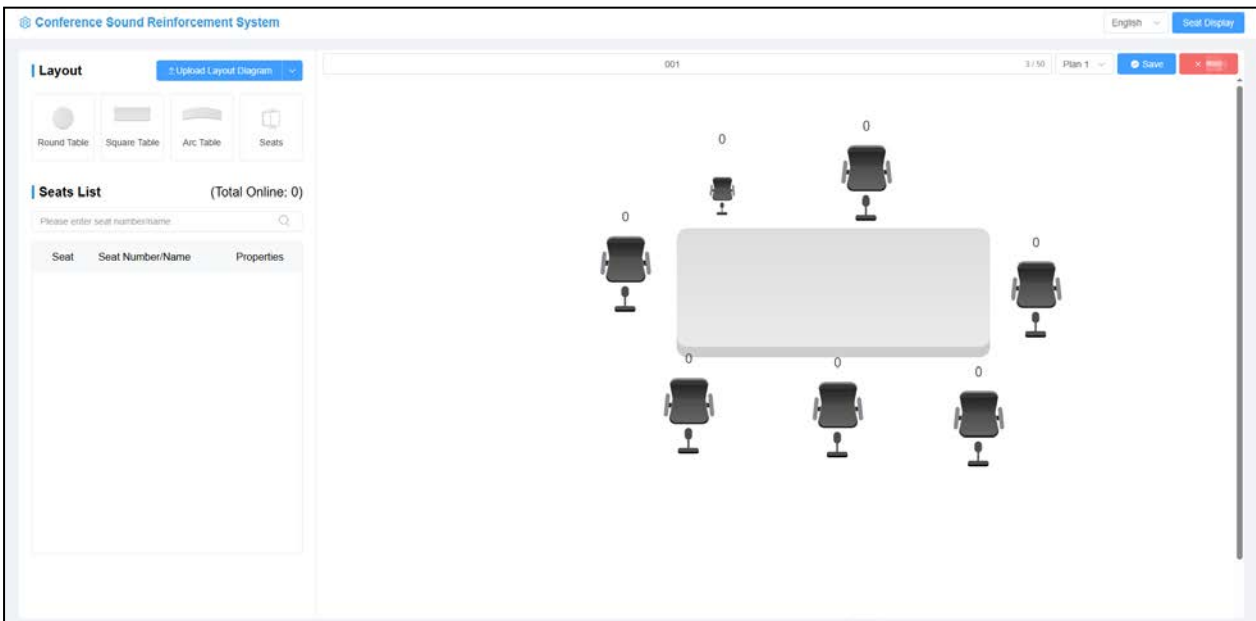
After enabling the "Call Server" under Microphone Settings > Terminal Params on the Web interface. Enter http://IP address of IP Network Conference Host/h/ in the browser address bar to access the Conference Sound Reinforcement System.

### Seat Editor

Click the switch button in the upper right corner of the interface to switch to Seat Editor mode, and the Seat Editor interface will be displayed.

On this interface, you can assign seats to the microphone units connected to the conference host.

- (1) Select a conference table in the "Layout" section; you can also set seats for the audience area.
- (2) Select microphone units from the "Seats List", drag them to the surrounding areas of the conference table, and assign seats to each microphone unit.
- (3) After completing the settings, click Save to store the configuration as a plan. You can also set up other plans.

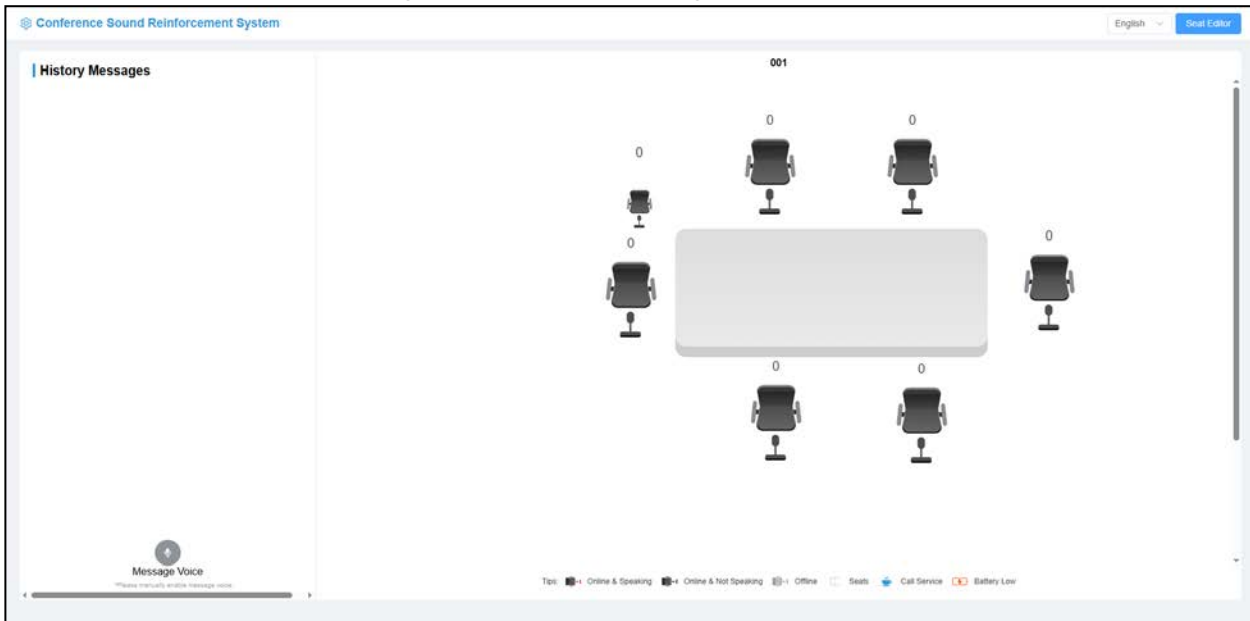


## Seat Display

Click the switch button in the upper right corner of the interface to switch to Seat Display mode, and the Seat Display Interface will be displayed.

After the "Call Server" is enabled on the host's Web interface, a Call Server Module will appear on the microphone interface. When a microphone unit clicks on the Call Server Module and selects a service, a message requesting the corresponding service from that unit will be displayed on this interface. Click the "Process" button, and the corresponding microphone interface will display "Processing". Conference service staff can then provide the requested items to the unit.

Conference administrators can also check the status of each unit according to the icon annotations on the interface, such as Online & Speaking, Online & Not Speaking, and Offline etc.



## 3.4 Troubleshooting

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### **System date back to initial value?**

The battery needs to be replaced, please contact a professional to replace battery.