



## Prestel VCS-G31

Split 4K UHD Video Conferencing Terminal



**ADMINISTRATOR GUIDE**

## **Limitation of Liability**

This guide does not contain any warranties or implied warranties of any kind. The contents of this guide may be updated at any time without notice.



**Warning**

Operating this equipment in a residential environment may cause radio interference.

# Catalogue

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# 1 Overview

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This guide can effectively guide you in configuring, conference control, management, routine maintenance, and exception handling for HD video conference terminals (hereafter referred to as terminals).

## 1.1 Administrator Definition

The terminal administrator refers to the management and maintenance personnel responsible for the regular operation of the terminal system in the enterprise. The main job responsibilities of the terminal administrator are as follows:

- Terminal configuration and management
- Terminal system routine maintenance
- Terminal system exception handling
- Ordinary user terminal usage question and answer

## 1.2 Administrator's Requirements

Mastering basic knowledge and collecting terminal environment and system information will help you manage and maintain your terminal.

### Basic Knowledge

- Windows operating system.
- GK (Gatekeeper) server, SIP (Session Initiation Protocol) server.
- Computer network knowledge such as Ethernet, TCP/IP, Client/Server.
- H.323 and SIP protocols.
- Familiar with electronic and electrical knowledge, with safe operating skills in electrical and electronic equipment.
- Familiar with common maintenance tools.
- Familiar with video conferencing system functions and services.

## Required Environmental and System Information Collection

| Category            | Preparation                               | Description                                                                                                                                                                    |
|---------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device Information  | Device Location                           | Record the detailed address of each device, ensuring quick identification based on descriptions.                                                                               |
|                     | Network Setup                             | Record the network topology and hardware connection diagram, which must be detailed for each device.                                                                           |
|                     | Device Information                        | List the device IP addresses, usernames, and passwords to log in during emergencies quickly. If passwords are inconvenient to list, they can be omitted but must be memorized. |
| Software and Tools  | Software Versions and Tools Preparation   | List the software versions corresponding to each device for reference when upgrading. Prepare the necessary tools for troubleshooting.                                         |
| Contact Information | Purchased Parts Service Information       | Record manufacturer's contact information, serial numbers, and the maintenance commitment terms.                                                                               |
|                     | Technical Support Contact Information     | Please keep a record of the technical support personnel list, their contact information, and responsibilities.                                                                 |
| Spare Parts         | Spare Parts                               | List the spare parts inventory and acquisition methods, including what service providers can provide spare parts and how to obtain them.                                       |
|                     | Utilizable Surplus or Temporary Equipment | For example, backup file servers, database servers, etc.                                                                                                                       |

## 1.3 Safety Precautions

You must carefully read and observe the safety precautions in daily operation and maintenance.

### Basic Requirements

- Kept dry during storage, transportation and use of equipment.
- In storing, transporting and using equipment, it is necessary to avoid violent collisions.
- Do not disassemble the device by yourself. If the device is faulty, please contact the manufacturer.
- No unit or individual may change the equipment's structural, safety and performance design without authorization.

- The person responsible for installing and maintaining the terminal equipment must master the correct operation methods and safety precautions before installing, operating, maintaining the equipment, removing the safety equipment and repairing the equipment.
- When using this device, you should follow relevant laws and regulations and respect the legal rights of others.

## **Environmental Requirements**

- Please install the equipment in strict accordance with the manufacturer's requirements.
- Place the equipment on a stable workbench. Hang the wall-mounted equipment in strict accordance with the manufacturer's requirements.
- Place the device in a ventilated, non-glare environment.
- Do not place the device and its accessories in an environment where the temperature is too low or too high.
- Do not place the device near water or in a damp area.
- Do not place anything on the device. It is recommended to leave more than 10cm of heat dissipation space around the device.
- Do not place the device near easily burnt objects, such as foam.
- Keep the equipment clean and avoid dust pollution.
- Keep away from heat sources or exposed sources of ignition, such as electric heaters and candles.
- Avoid appliances with strong magnetic or electric fields, such as microwave ovens, refrigerators, and mobile phones.

## **Usage Notice**

- Do not allow children to play with equipment and gadgets to avoid suffocation caused by playing with product packaging bags and to avoid dangers such as swallowing.
- Before touching the device and holding the card, circuit board, IC chip, etc., to prevent the human body from damaging the sensitive components, you must wear an anti-static wrist strap and ground the other end of the anti-static wrist strap.
- Please use the accessories that come with the product and the accessories recommended by the manufacturer, such as power adapters, batteries, etc.
- Please ensure that the device's power supply voltage meets the device's input voltage requirements. Please use the matching lightning protection power strip.
- Please ensure that the protection ground of the three-phase socket is effectively grounded and that the neutral line and the live line are not reversed.
- Please keep the power plug clean and dry. Do not use damaged or aged cables to avoid the risk of electric shock.
- Do not step on, pull, or excessively bend the device cable to avoid equipment failure.

- Do not scratch or wear the outer casing of the device. Otherwise, the peeling paint may cause allergies or abnormal equipment. If it falls into the main unit, it may cause a short circuit.
- Prevent foreign objects (such as metal) from entering the device through the heat dissipation holes to avoid abnormal equipment.
- Keep your hands dry when plugging and unplugging the device cables.
- Before plugging or unplugging the device cable, stop using the device and disconnect the power.
- Do not allow water or other liquids to flow into the device. If any liquid accidentally flows into the device, immediately disconnect the power supply and unplug all the cables connected to the device, such as the power cable, video cable, audio cable, network cable, and serial cable.
- If there is any abnormality, such as smoke, abnormal sound, or odor, please stop using it immediately, disconnect the power supply, and remove all cables connected to the device, such as power cable, video cable, audio cable, and network cable. And serial cable.
- In the thunderstorm, please disconnect the power of the device and unplug all the cables connected to the device, such as the power cable, video cable, audio cable, network cable, and serial cable, to prevent the device from being damaged by lightning.
- When not using the device for a long time, disconnect the power supply and unplug all the cables connected to the device, such as the power cable, video cable, audio cable, network cable, and serial cable.

## **Cleaning Instructions**

- Before cleaning, stop using the device, disconnect the power supply, and unplug all the cables connected to the device, such as the power cable, video cable, audio cable, network cable, and serial cable.
- Do not use cleaning liquid or spray cleaner to clean the device casing. Wipe the device case with a soft cloth.

## **Remote Control Battery Usage Instructions**

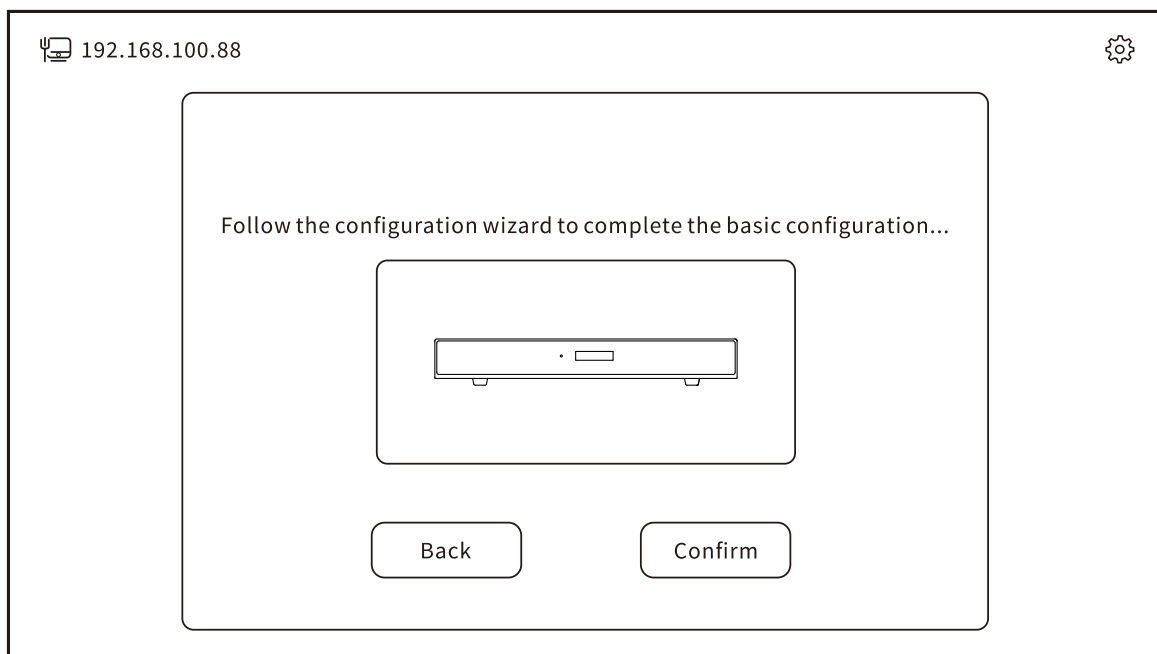
- Please use the correct type of battery and install the battery in the correct polarity.
- When the battery does not fit properly into the device, do not squeeze the battery hard to prevent the battery from leaking or bursting.
- It should be replaced immediately if the battery leaks, emits smoke, or emits an odor.
- Do not mix old and new batteries. When replacing batteries, replace all batteries at the same time.

## 2 Operation (Remote Control)

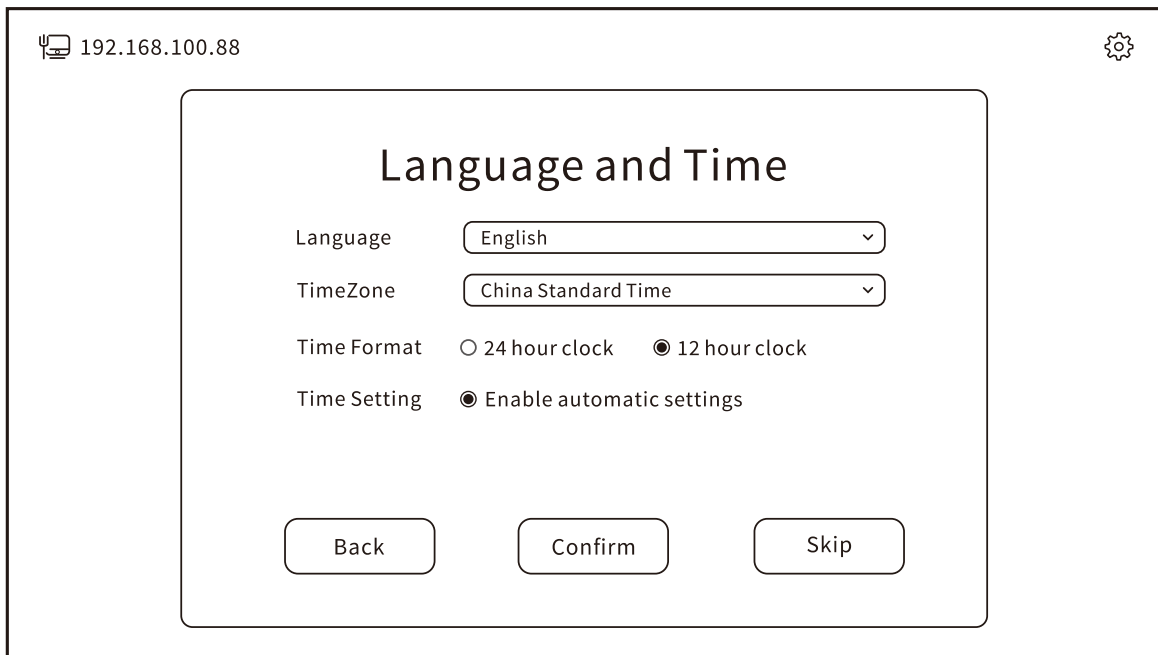
### 2.1 Terminal Guide

When using this product for the first time, the device will automatically enter the Terminal Guide interface after startup; Or, select “ >  > Quick Configuration” from the GUI main menu interface to manually start the Terminal Guide and complete the basic settings.

1. Enter the configuration Guide interface, select “Confirm” and follow the configuration guide to complete the basic configuration of the device (select “Back” to cancel the configuration and return to the previous menu).



2. Configure Language and Time, select “Confirm” to go ahead.



192.168.100.88

## Language and Time

Language: English

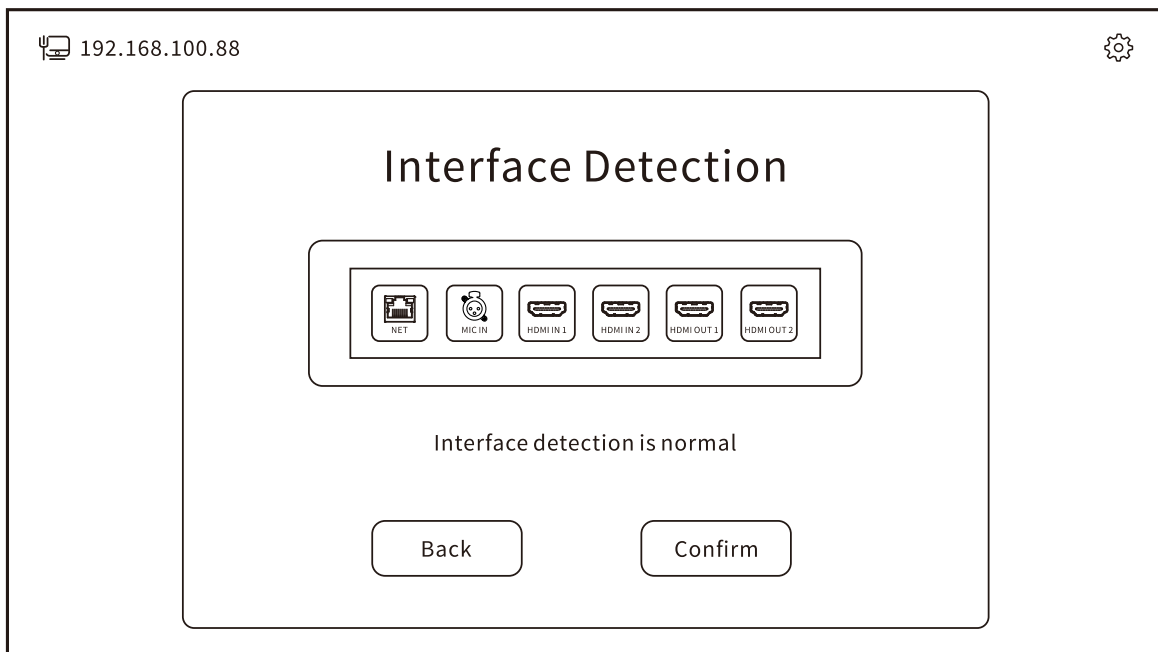
TimeZone: China Standard Time

Time Format: ☐ 24 hour clock ☒ 12 hour clock

Time Setting: ☒ Enable automatic settings

Back Confirm Skip

3. Enter the “Interface Detection” interface to check the connection status of the device interface (if the connection is abnormal, it is recommended to follow the instructions to complete the connection), select “Confirm” to go ahead.



192.168.100.88

## Interface Detection

NET MIC IN HDMI IN 1 HDMI IN 2 HDMI OUT 1 HDMI OUT 2

Interface detection is normal

Back Confirm

4. Configure Network parameters (in Wired Network mode, if selected static IP, you need to manually configure the IP address, Netmask, Gateway and DNS address), select “Confirm” to go ahead.

192.168.100.88

## Network

Wired Network | Wireless Network

Wired Network ☒ Open ☐ Off

Acquisition Way ☐ Static IP ☒ Auto Obtain Category ☒ IPv4 ☐ IPv6

|              |     |     |     |     |
|--------------|-----|-----|-----|-----|
| IPv4 Address | 192 | 168 | 100 | 88  |
| Netmask      | 255 | 255 | 255 | 0   |
| Gateway      | 192 | 168 | 100 | 1   |
| DNS1         | 114 | 114 | 114 | 114 |
| DNS2         | 8   | 8   | 8   | 8   |

Back Confirm Skip

5. Configure Account parameters, select “Confirm” to go ahead.

192.168.100.88

## Account

Account Type SIP

Register SIP ☒

Account

Register Password

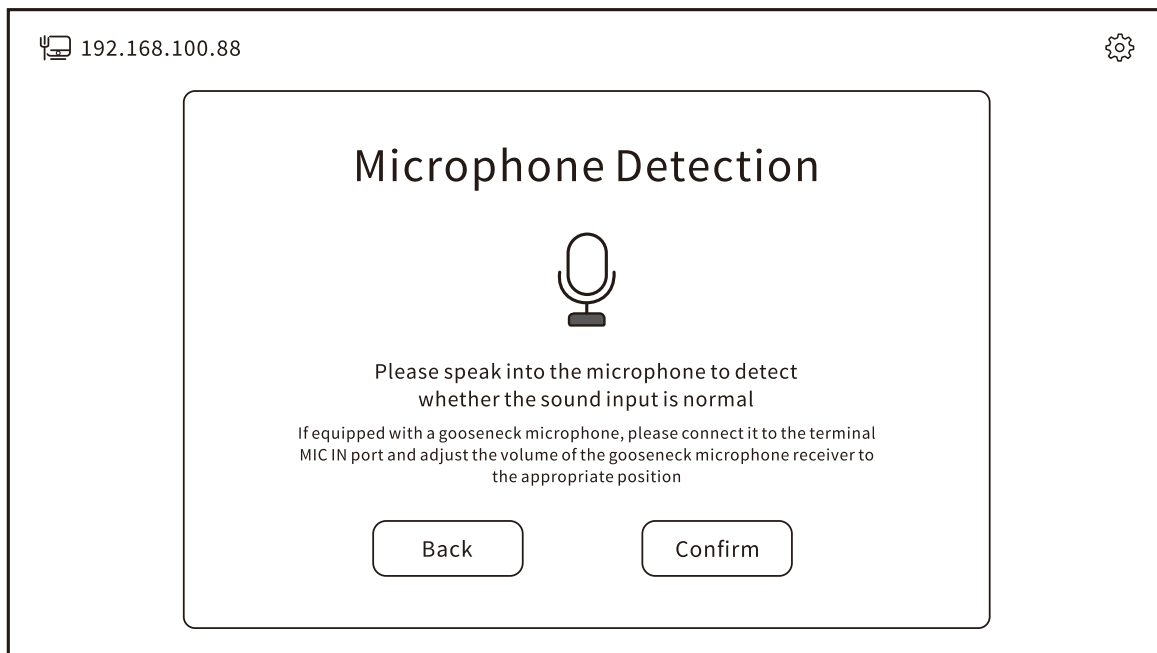
Register Server

Proxy Server

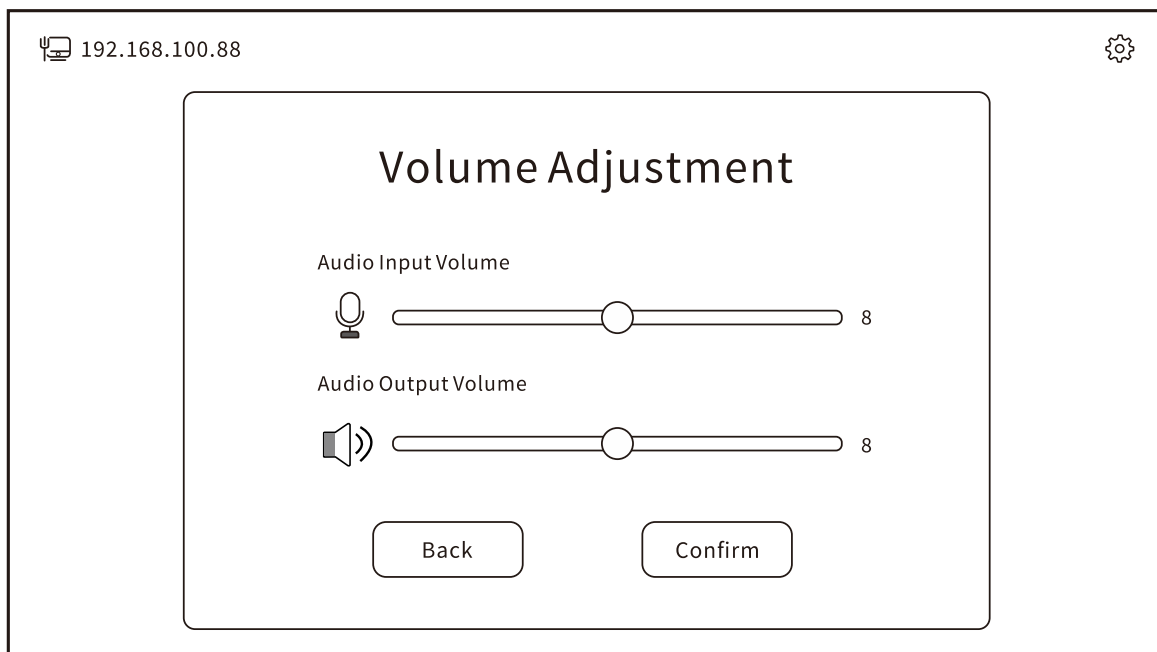
Authentication Username

Back Confirm Skip

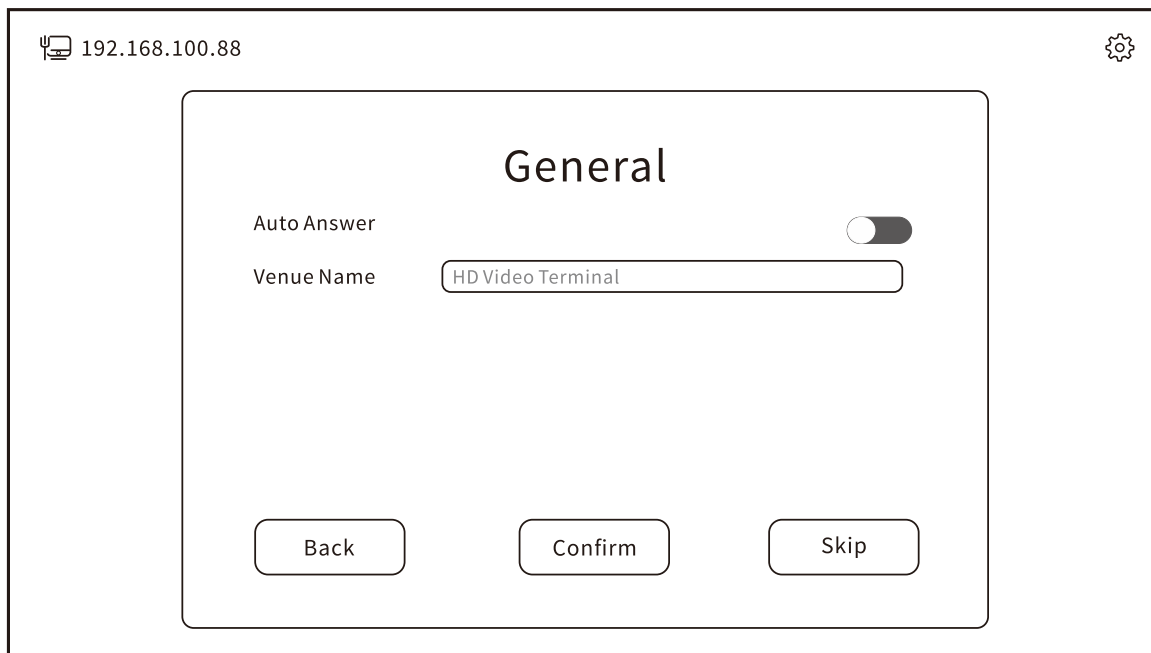
6. Enter the “Microphone Detection” interface, speak into the microphone to detect whether the sound input is normal, select “Confirm” to go ahead.



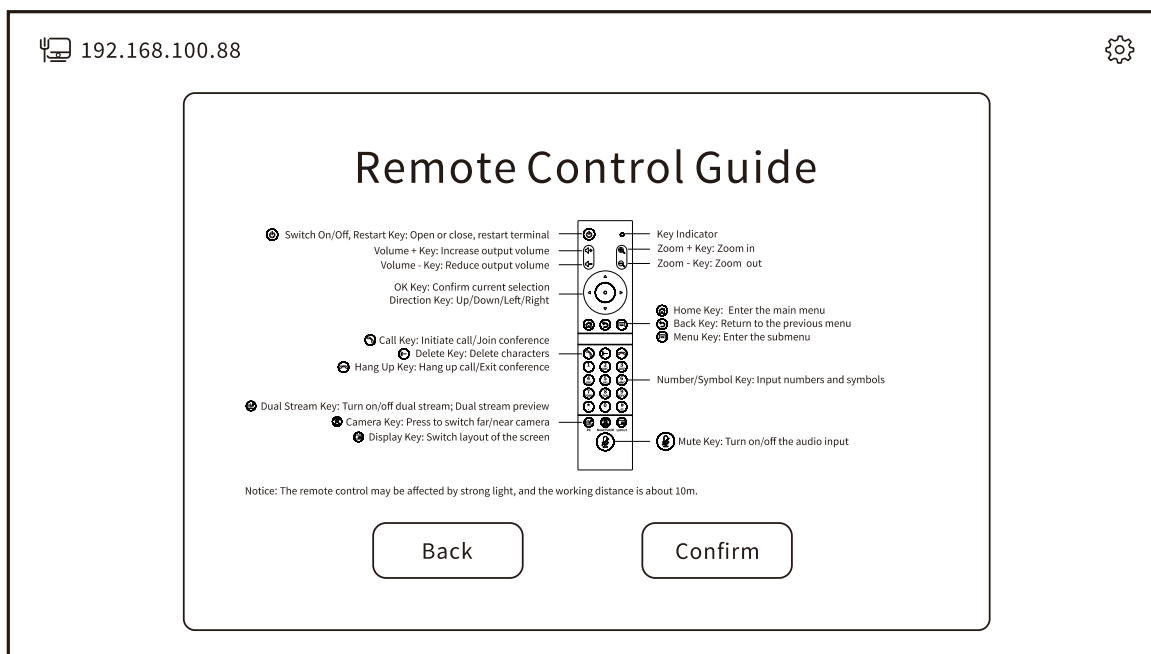
7. Configure Volume parameters, select “Confirm” to go ahead.



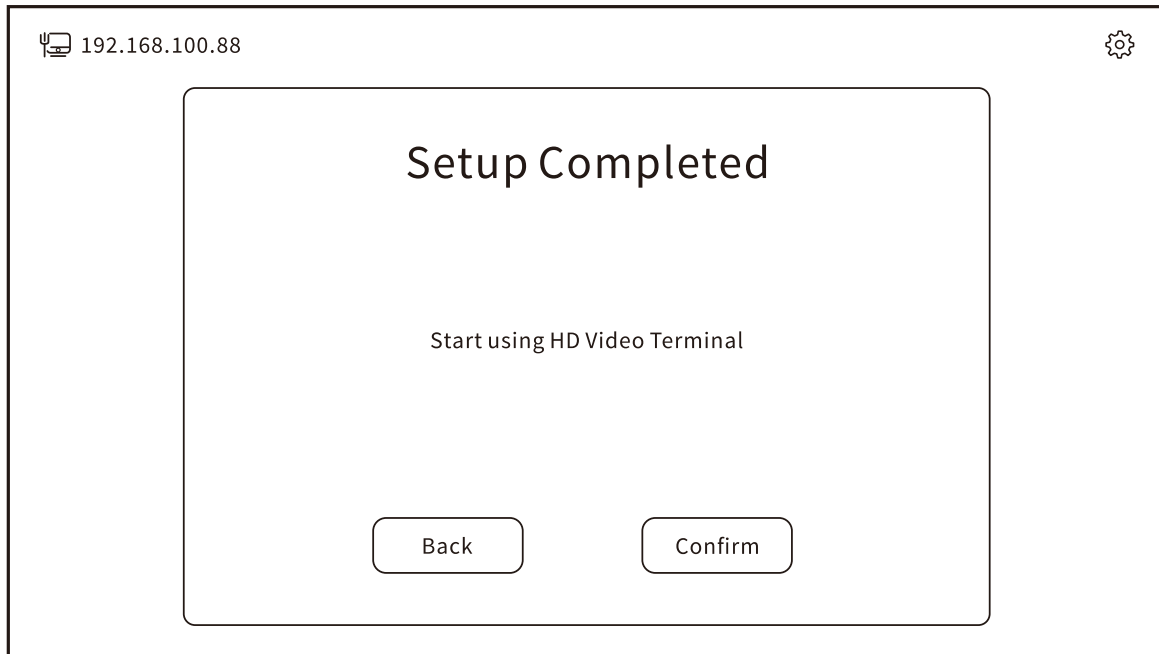
8. Enable or disable the Auto Answer function, configure the Venue Name, select “Confirm” to go ahead.



9. Enter the Remote Control Guide interface to check the key instructions, select “Confirm” to go ahead.



10. Enter the “Setup Completed” interface, select “Confirm” to exit the “Quick Configuration” interface.



Note

Select “Back” to go back and modify the configuration. The interface includes “Skip” option can be selected to skip the current configuration interface.

## 2.2 Main Interface

Press the main menu key “

The diagram illustrates the Main Interface of the Split 4K UHD Video Conferencing Terminal. It features a large rectangular screen with the following elements:

- 1**: Points to the IP address "192.168.100.88" displayed next to a computer icon.
- 2**: Points to the H323 registration status "H323: 123450" displayed next to a person icon.
- 3**: Points to the SIP registration status "SIP: 123451" displayed next to a person icon.
- 4**: Points to the system time "10:18 AM" and the date "05-24 Wednesday".
- 5**: Points to the "Meeting" menu icon, which is a rounded square containing a play button icon.
- 6**: Points to the "More" menu icon, which is a rounded square containing three dots.

| No. | Description               | No. | Description  |
|-----|---------------------------|-----|--------------|
| 1   | IP Address                | 4   | System Time  |
| 2   | H 323 Registration Status | 5   | Meeting Menu |
| 3   | SIP Registration Status   | 6   | More Menu    |

Move the cursor to “

7

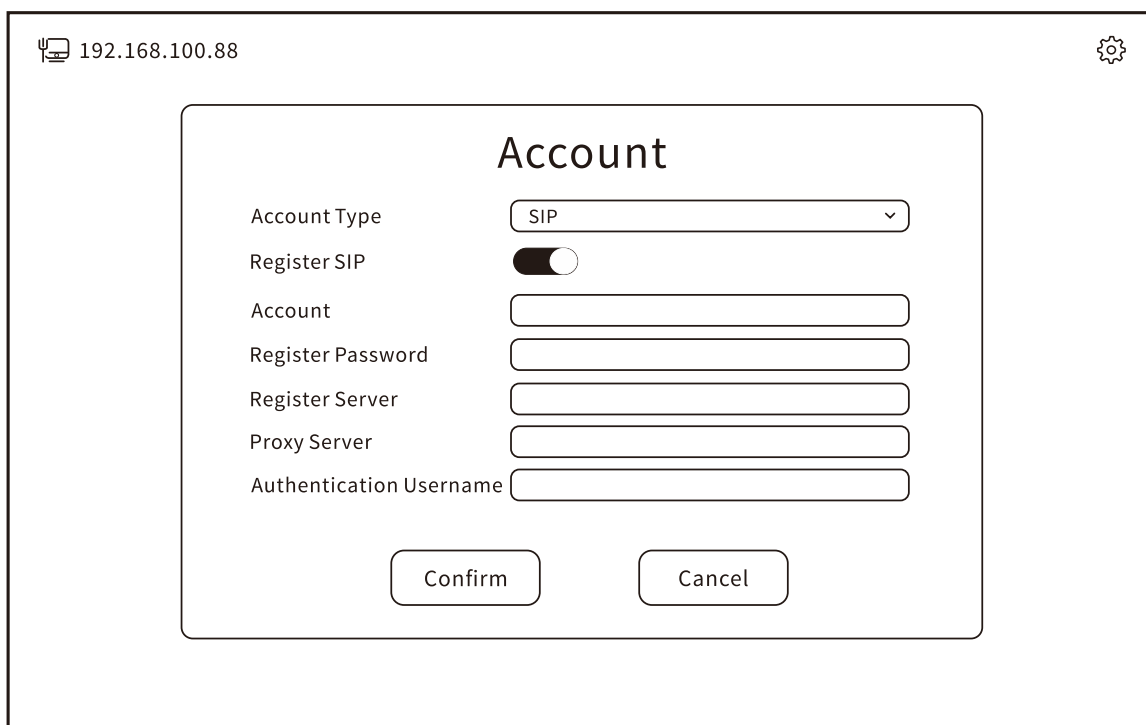
## 2.3 Register Account

After successfully registering the account, the terminal can make account calls (only IP point-to-point calls are supported before the account is logged).

### 2.3.1 Register SIP Account

#### ➤ Operating Steps

**Step 1** On the main menu interface, select “ >  > Account” to enter the Account menu interface.



The screenshot displays the 'Account' configuration screen. At the top left, the IP address '192.168.100.88' is shown next to a phone icon. At the top right is a gear icon. The central area contains the following fields and controls:

- Account Type:** A dropdown menu currently set to 'SIP'.
- Register SIP:** A toggle switch that is currently turned on.
- Account:** A text input field.
- Register Password:** A text input field.
- Register Server:** A text input field.
- Proxy Server:** A text input field.
- Authentication Username:** A text input field.

At the bottom of the form are two buttons: 'Confirm' and 'Cancel'.

**Step 2** Set account type to SIP.

**Step 3** Enable Register SIP.

**Step 4** Enter the information of Account Number, Registration Password, Registration Server, Proxy Server and Authentication Username.

**Step 5** Select “Confirm” to register the SIP account.



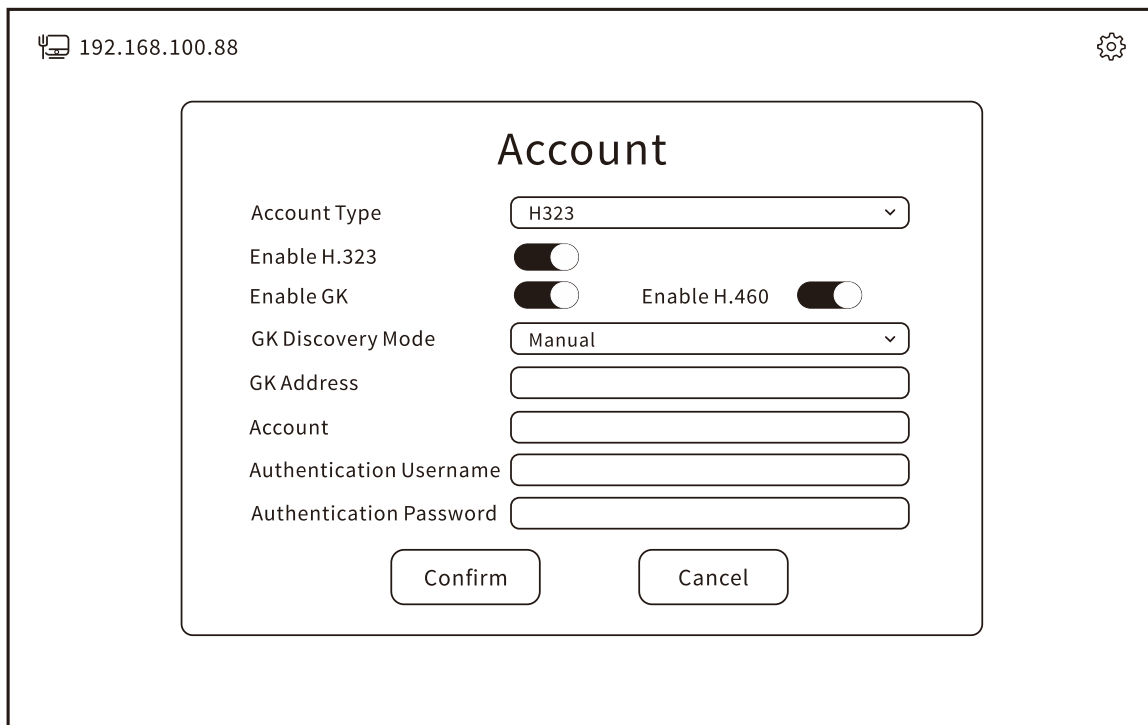
Note

After the SIP account is successfully registered, the terminal will automatically block SIP server calls from unregistered accounts (H323 servers remain unaffected). To disable this feature, please login to the WEB configuration interface, select “Settings > Protocol > SIP” and uncheck “Ignore calls from unregistered servers”.

## 2.3.2 Register H323 Account

### ➤ Operating Steps

**Step 1** On the main menu interface, select “ >  > Account” to enter the Account menu interface.



The screenshot displays the 'Account' configuration window. At the top left, the IP address '192.168.100.88' is shown. The window contains the following settings:

- Account Type: H323 (selected from a dropdown)
- Enable H.323: ☒
- Enable GK: ☒
- Enable H.460: ☒
- GK Discovery Mode: Manual (selected from a dropdown)
- GK Address:
- Account:
- Authentication Username:
- Authentication Password:

At the bottom, there are two buttons: 'Confirm' and 'Cancel'.

**Step 2** Set account type to H323.

**Step 3** Enable the “Enable H323, Enable GK and Enable H.460”.

**Step 4** Configure GK Discovery Mode (Manual/Auto).

**Step 5** Enter the information of GK Address, Account, Authentication Username and Authentication Password.

**Step 6** Select “Confirm” to register the H323 account.

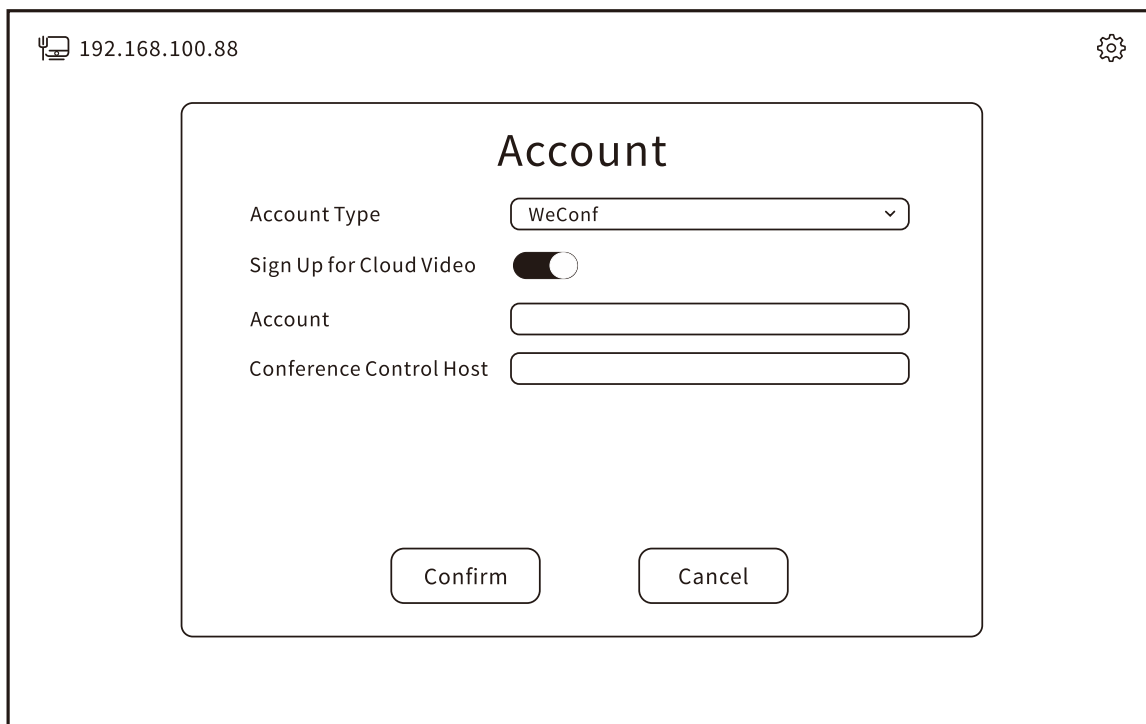
### 2.3.3 Register WeConf Account (Optional)

#### ➤ Prerequisites

Before registering for a WeConf account, you need to inform the platform administrator of the terminal serial number to apply for an account.

#### ➤ Operating Steps

**Step 1** On the main menu interface, select “ >  > Account” to enter the Account menu interface.



**Step 2** Set account type to WeConf.

**Step 3** Enable Sign Up for Cloud Video.

**Step 4** Enter the information of Account and Conference Control Host.

**Step 5** Select “Confirm” to register the WeConf account.



Note

WeConf account can only be registered via the GUI.

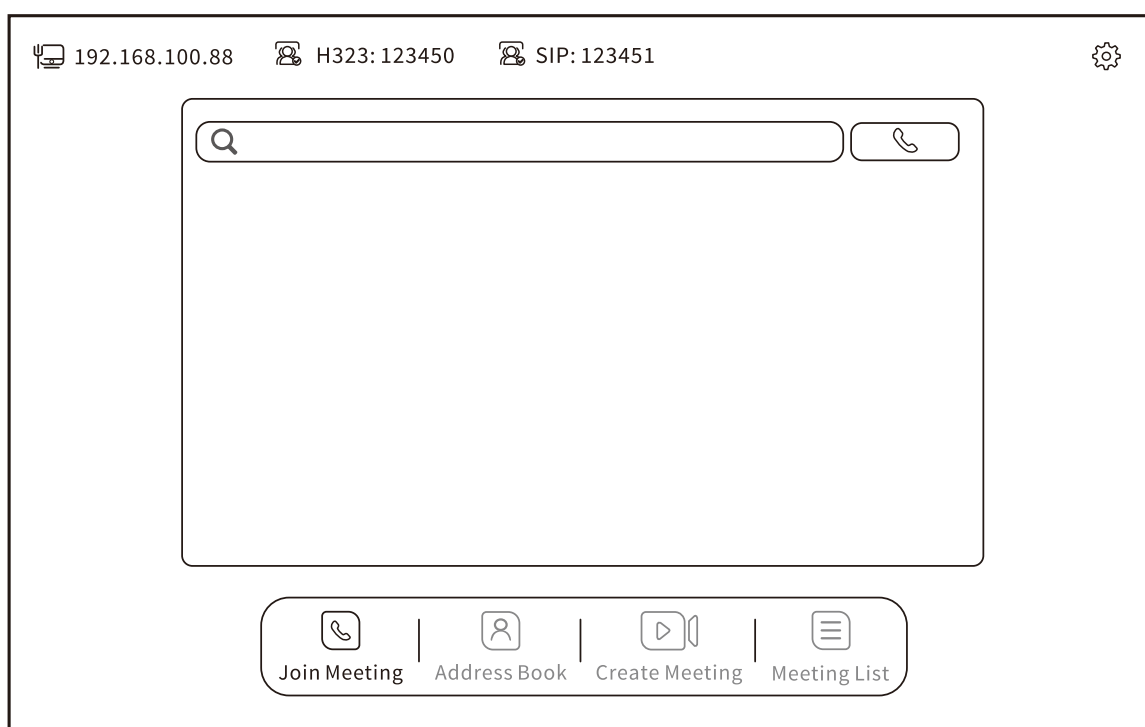
## 2.4 Join Meeting

The terminal supports calling meetings through the address book, call record, and by entering the meeting account, number, or IP address. After registering the WeConf account, the terminal supports joining and creating WeConf meetings.

### 2.4.1 Meeting Calling

#### ➤ Operating Steps

**Step 1** Select “” on the main menu interface and press the “” key on the remote control to enter the Join Meeting interface.



**Step 2** There are several ways to select the remote venue:

- Manually enter the remote venue Account, Number or IP Address in the input box;
- Select the remote venue Account, Number or IP Address to be called in the call list;
- Select the remote venue Account, Number, or IP Address in the address book list.

**Step 3** The configuration venue parameters are shown in the table below.

| Parameter                            | Parameter Declaration                        | Parameter Setting                                                               |
|--------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------|
| Venue Account, Number and IP Address | Remote venue Account, Number, or IP Address. | Default: Display the most recently called conference account, number/IP address |

| Parameter     | Parameter Declaration                                                                    | Parameter Setting     |
|---------------|------------------------------------------------------------------------------------------|-----------------------|
| Call Protocol | Select the call protocol: H.323, SIP, WeConf (optional).                                 | Default Protocol: SIP |
| Call Rate     | Select the call rate: 64K, 128K, 192K, 256K, 384K, 512K, 768K, 1M, 1.5M, 2M, 4M, 6M, 8M. | Default Rate: 2M      |

**Step 4** Select the interface button “” or press the call key “” on the remote control to initiate the meeting.

**Step 5** Press the hang up key “” on the remote control to end the meeting.

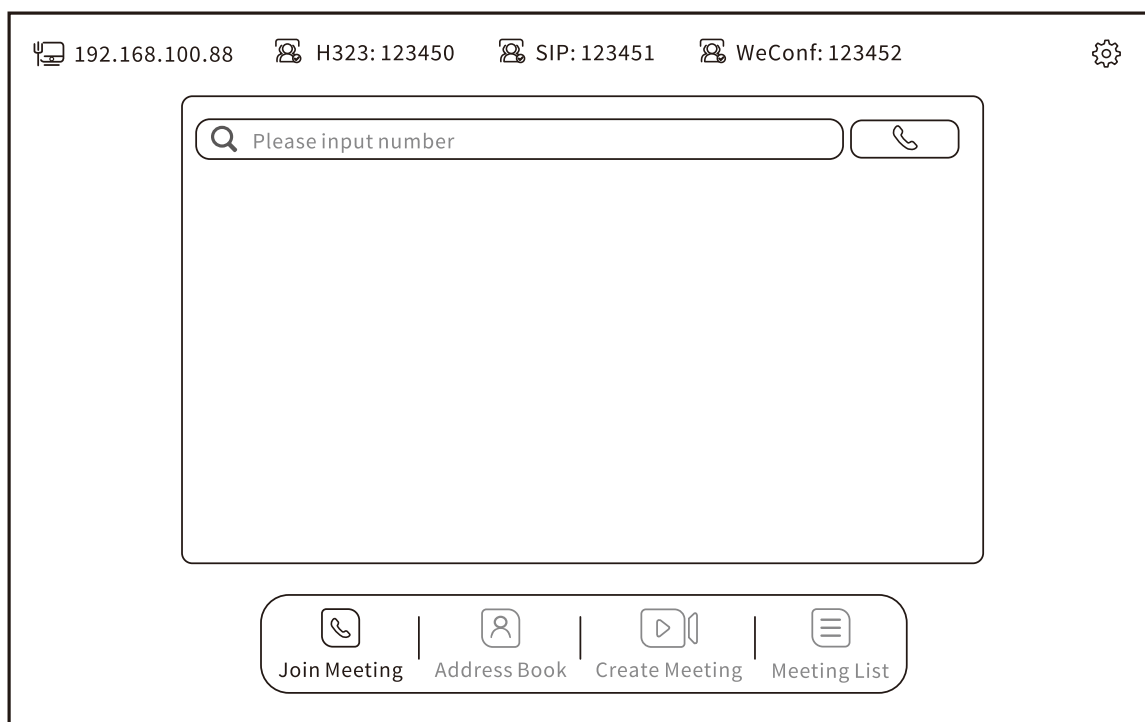
## 2.4.2 Join Weconf Meeting (Optional)

After registering the WeConf account, the terminal supports joining Weconf meetings through the meeting ID and the meeting list.

### 2.4.2.1 Join a WeConf Meeting via Meeting ID

#### ➤ Operating Steps

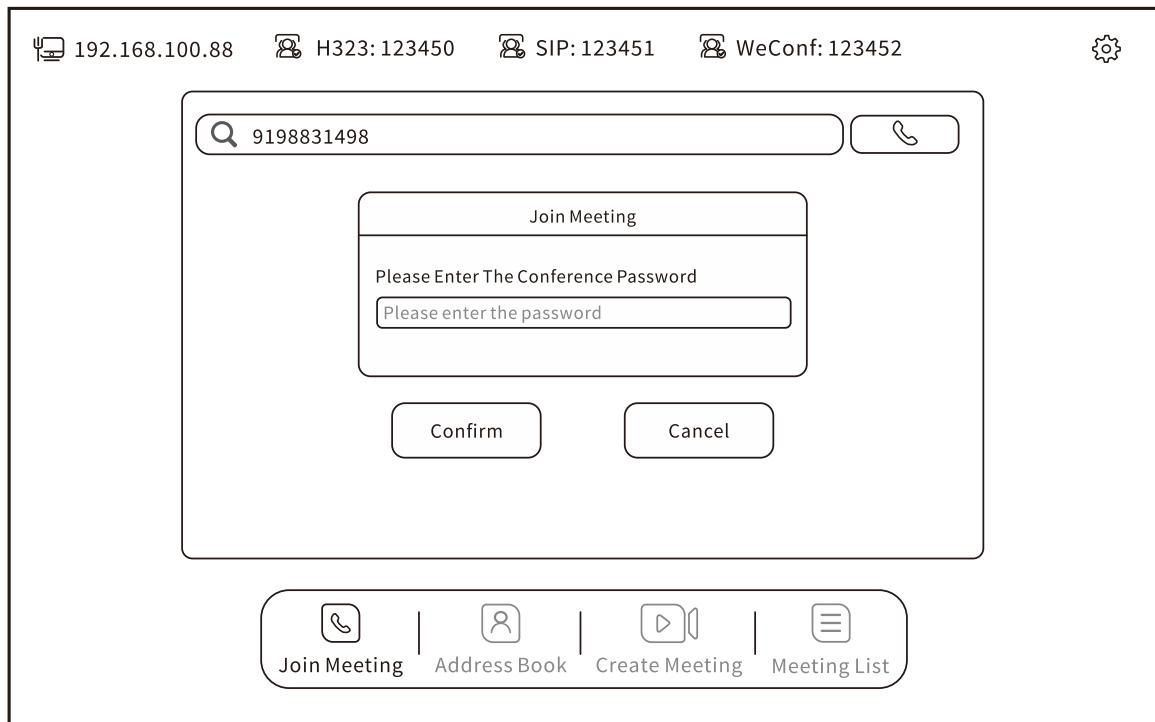
**Step 1** On the main menu interface, select “ > Join Meeting”.



**Step 2** Enter the meeting number and move the cursor to select the interface button “” to select the Weconf protocol and confirm with the “” key.

**Step 3** Select the interface button “” or press the call key “” on the remote control to join the meeting.

Or, if there is a meeting password is needed, the interface will pop-up the “Joining Meeting” dialog box as below:



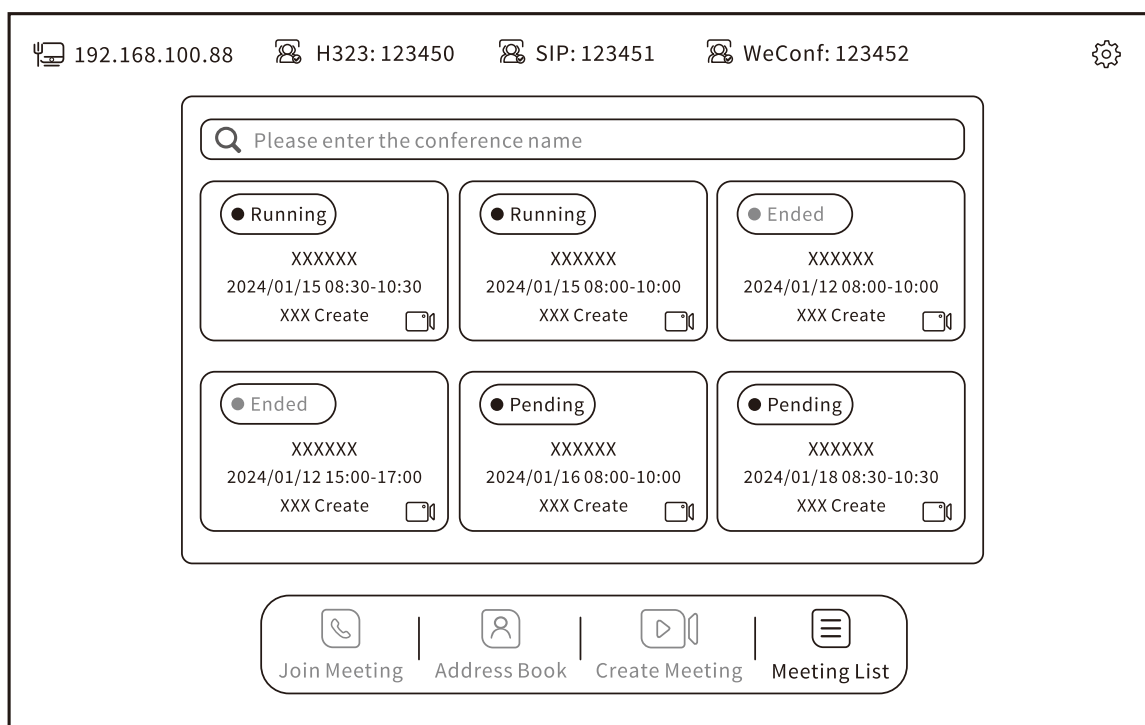
**Step 4** Enter the meeting password and select “Confirm” to join the meeting.

**Step 5** Press the hang up key “☎” on the remote control to exit the meeting.

### 2.4.2.2 Join a WeConf Meeting via Meeting List

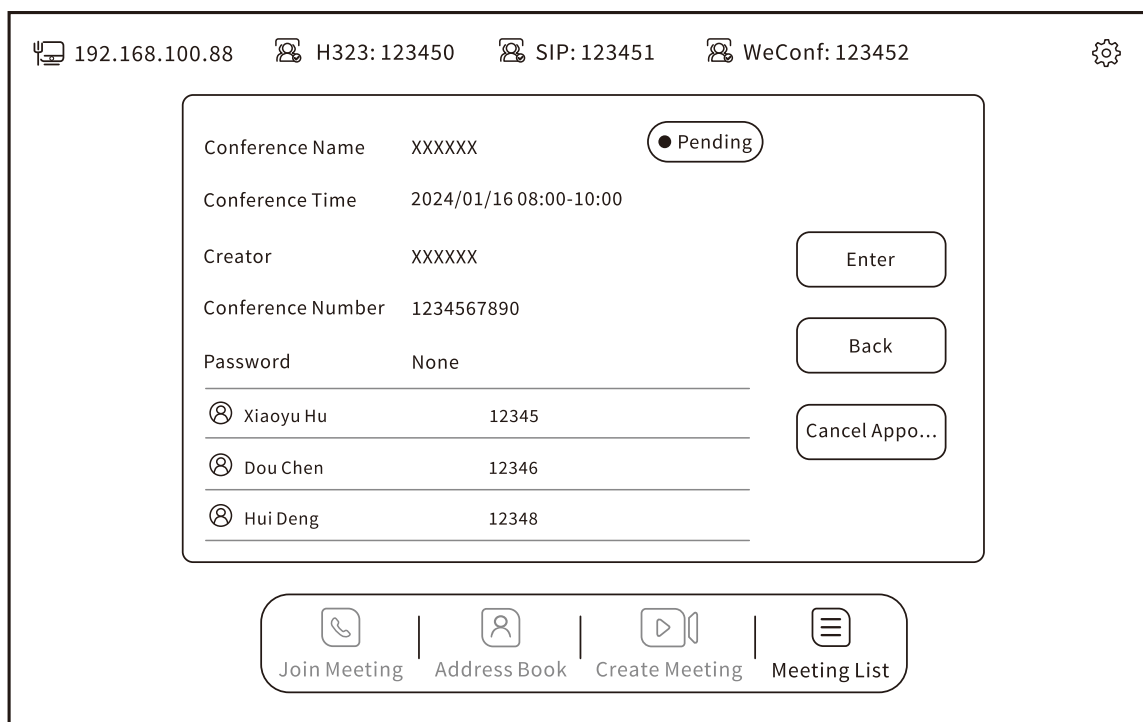
#### ➤ Operating Steps

**Step 1** On the main menu interface, select “ Meeting List”.



**Step 2** Move the cursor to select the meeting and press the “” key on the remote control to enter the conference detail interface.

➤ **When selected “Pending” meeting, the conference detail interface will show as below:**



**Step 1** Select “Enter” to pop-up the “Initiate a Meeting?” dialog box.

**Step 2** Select “Re-invite” or “Join Only” to join the meeting.

**Step 3** Press the hang up key “” on the remote control to exit or end the meeting.

➤ **When selected “Ended” meeting, the conference detail interface will show as below:**

The screenshot shows the conference detail interface for an ended meeting. At the top, there is a status bar with icons and text: 192.168.100.88, H323: 123450, SIP: 123451, and WeConf: 123452. A gear icon is in the top right corner. The main content area is a white box with a black border. Inside, the conference details are listed: Conference Name (XXXXXX), Conference Time (2024/01/15 08:00-10:00), Creator (XXXXXX), Conference Number (1234567890), and Password (None). To the right of the details is a button labeled "Reissue". Below the details is a list of participants: Xiaoyu Hu (12345), Dou Chen (12346), and Hui Deng (12348). To the right of the participants is a button labeled "Back". At the bottom of the interface is a navigation bar with four icons and labels: Join Meeting, Address Book, Create Meeting, and Meeting List.

| Conference Name   | XXXXXX                 | ● Ended |
|-------------------|------------------------|---------|
| Conference Time   | 2024/01/15 08:00-10:00 |         |
| Creator           | XXXXXX                 |         |
| Conference Number | 1234567890             | Reissue |
| Password          | None                   |         |
| <hr/>             |                        |         |
| ⊗ Xiaoyu Hu       | 12345                  | Back    |
| ⊗ Dou Chen        | 12346                  |         |
| ⊗ Hui Deng        | 12348                  |         |

Join Meeting | Address Book | Create Meeting | Meeting List

**Step 1** Select “Reissue” to restart the ended meeting, and the original participants will be automatically added to the meeting.

**Step 2** Select “Re-invite” or “Join Only” to join the meeting.

**Step 3** Press the hang up key “☎” on the remote control to exit or end the meeting.

### 2.4.3 Create WeConf Meeting (Optional)

After registering a WeConf account, the terminal supports create the Immediately Meeting and the Appointment Meeting.

➤ **Operating Steps**

**Step 1** On the main menu interface, select “☎> Create Meeting”.

The screenshot displays the 'Create Meeting' interface of a video conferencing terminal. At the top, status information includes the IP address 192.168.100.88, H323 ID 123450, SIP ID 123451, and WeConf ID 123452, along with a settings gear icon. The main form contains the following fields and controls:

- Conference Name:** A text input field with the placeholder 'Conference Name' and a character count '0/30'.
- Conference Type:** Two radio buttons, 'Immediately' (selected) and 'Appointment'.
- Password:** A toggle switch currently turned off.
- Conference Duration:** A slider control ranging from '1h 0h' to '6h'.

On the right side of the form, there are three buttons: 'Create Conf.', 'Add Particip...', and 'Select Parti...'. At the bottom of the interface is a navigation bar with four icons and labels: 'Join Meeting' (phone handset), 'Address Book' (person icon), 'Create Meeting' (video camera icon), and 'Meeting List' (list icon).

**Step 2** Configure the parameters of Conference Name, Conference Type, Password and Conference Duration.

**Step 3** Select “Add Participants” to enter the Address Book interface and add the participants.

**Step 4** Select “Create Conference” to create a meeting.

## 2.5 Call Answering

When there is a meeting call, the terminal rings and the call ID interface displays.



- Select the interface button “📞” to establish the audio meeting.
- When receiving the video call, select the interface button “📺” or press the call key “📞” on the remote control to establish the video meeting.
- Select the interface button “📞” or press the hang up key “📞” on the remote control to end the meeting.



Note

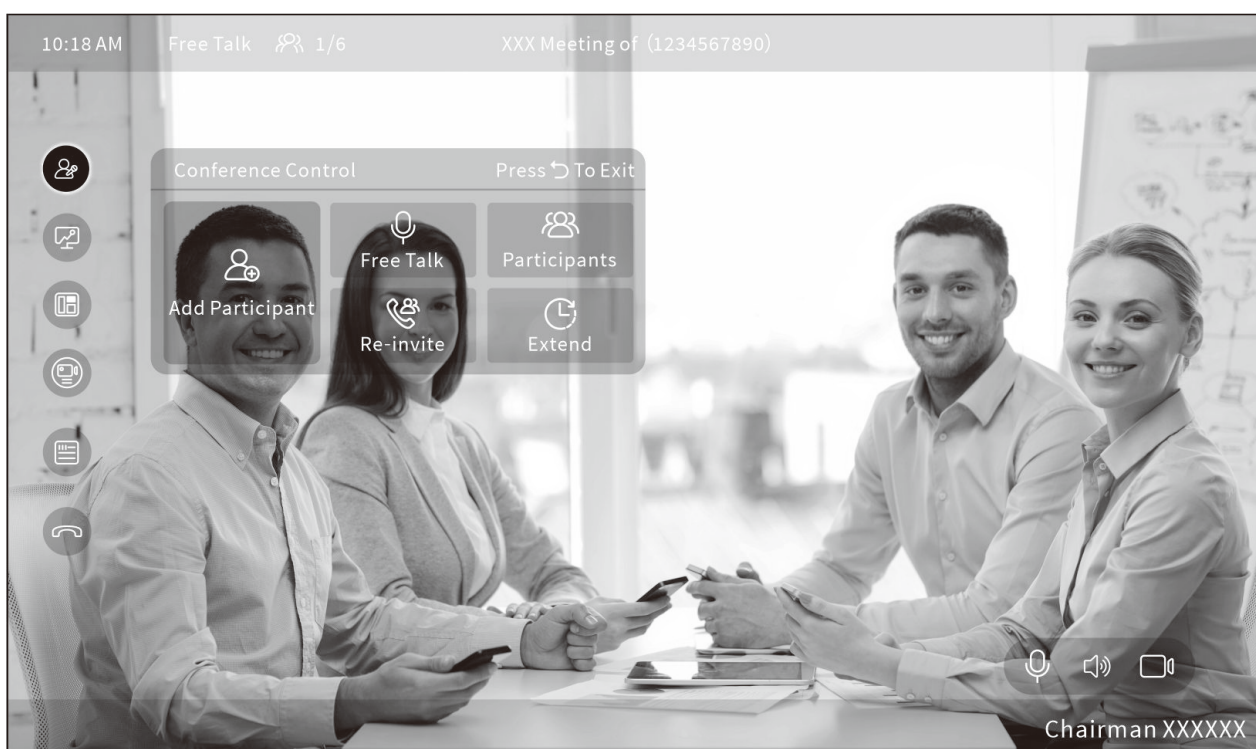
If the incoming call is from a contact stored in the address book, it will display the contact's name and number. Otherwise, only the caller's number will be displayed.

## 2.6 Conference Control

On the conference control interface, you can choose to send presentation, switch picture layout, check call information, control camera PTZ and do other functional operations etc.

### 2.6.1 Conference Control

During the built-in MCU or WeConf meeting, press the menu key “≡” on the remote control and move the cursor to select “☰” to enter the conference control interface (see below figure), move the cursor to select to view the Participants, Add Participant, Re-invite, Extend and set Free Talk etc.



### 2.6.2 Send Presentation

Connect a computer or high-definition camera to the terminal via an HDMI cable as an auxiliary stream source or use a wireless BYOM Pod to connect the computer as a wireless auxiliary stream source. Dual streaming is only allowed when the terminal detects an auxiliary stream source. When the dual streaming is enabled, the remote end can see the shared screen of the local end.

#### Prerequisite>>

The terminal accesses the secondary video source and is normally in the meeting, and the remote end supports dual streams.

### ➤ Operating Steps

**Step 1** Press the menu key “” on the remote control and move the cursor to select “” to send presentation to participating terminals. Or press the “” key on the remote control to send or close the presentation.

**Step 1** Press the hang up key “” on the remote control to exit the meeting.

## 2.6.3 Picture Switching

During the meeting, press the menu key “” on the remote control and move the cursor to select “” to configure the HDMI1/HDMI2 video display screen; Or press the display key “” on the remote control to switch the screen layout.

## 2.6.4 Call Information

During the meeting, press the menu key “” on the remote control and move the cursor to select “” for real time call information, such as Call Status, Video Information, Audio Information and Network Information etc.

## 2.6.5 Camera Control

During the meeting, press the direction keys on the remote control to rotate the local/remote camera to up/down/left/right, press the “” key to refresh the video image. Press the zoom keys on the remote control to zoom in/out the camera image.

## 2.7 Address Book

The terminal supports Local Contact and Enterprise Contact, you can directly initiate calls to relevant contacts in the address book.

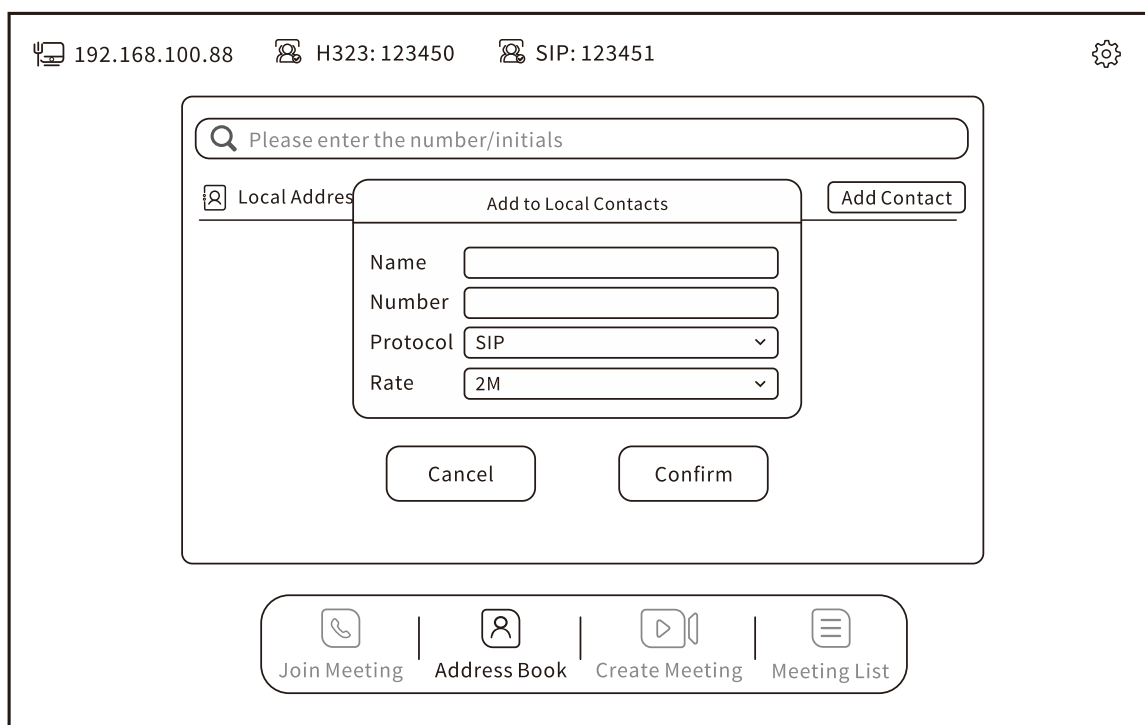
### 2.7.1 Local Contact

The local contact support Add, Edit, and delete contact.

#### 2.7.1.1 Add Contact

##### ➤ Operating Steps

**Step 1** On the main menu interface, select “ > Address Book > Add Contact”.



**Step 2** Enter the contact Name and Number.

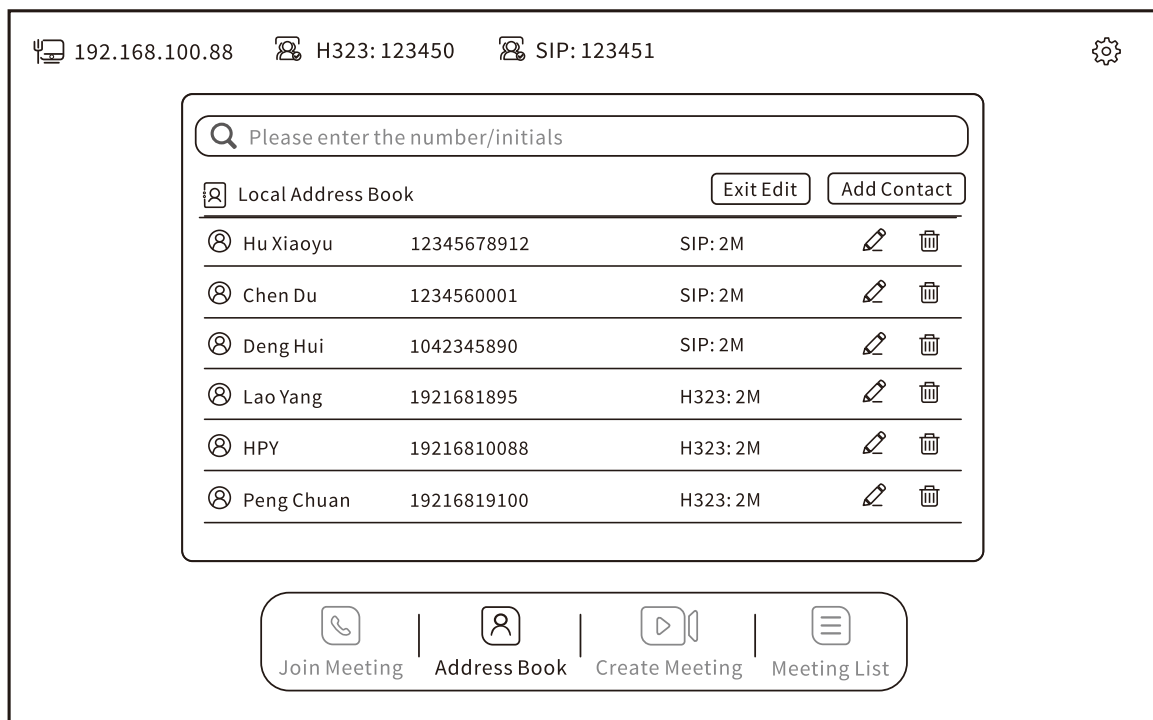
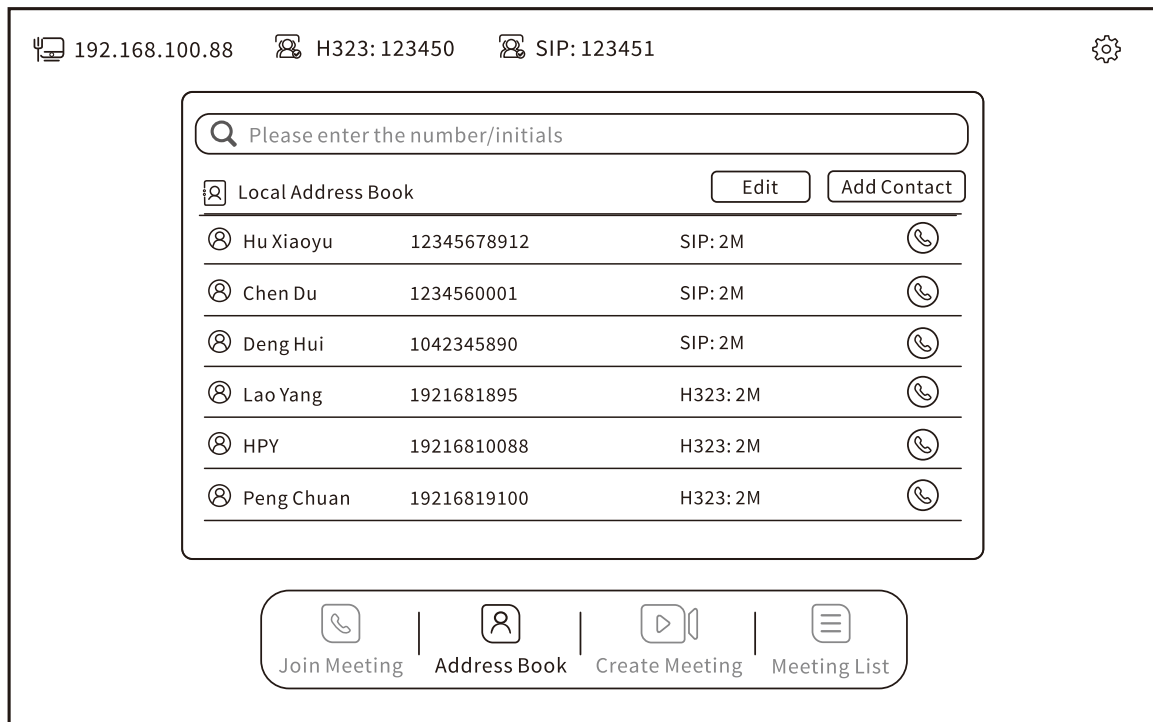
**Step 3** Select the Protocol and Rate.

**Step 4** Select “Confirm” to save.

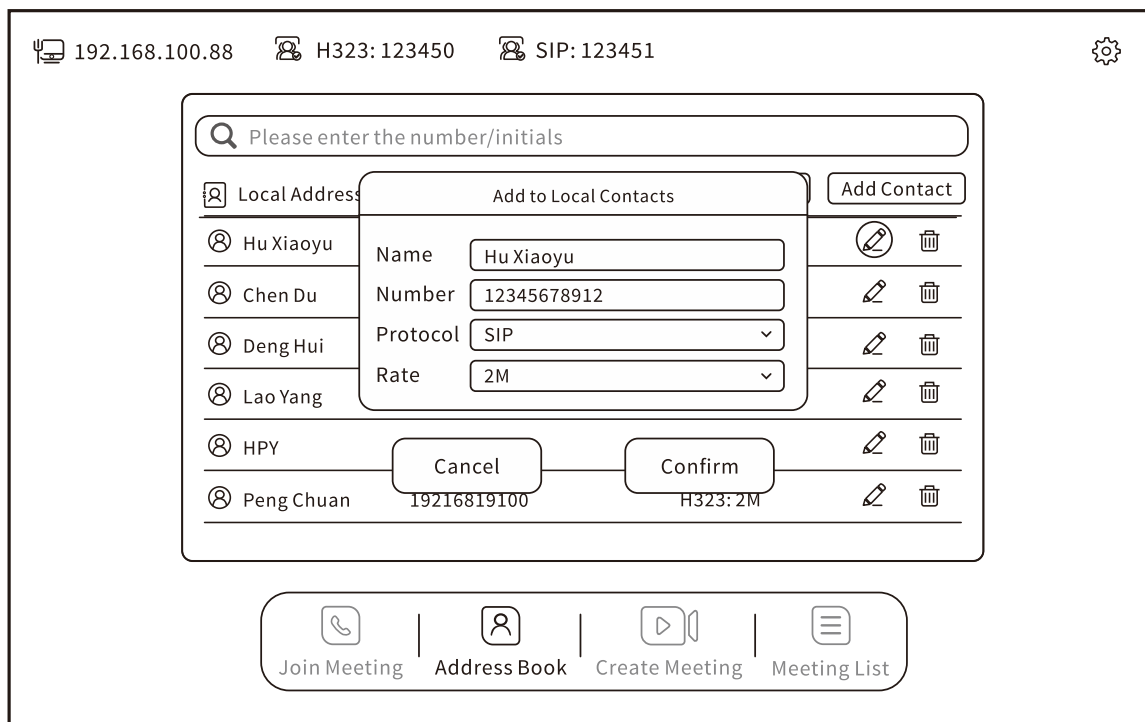
#### 2.7.1.2 Edit Contact

##### ➤ Operating Steps

**Step 1** On the main menu interface, select “ > Address Book > Edit”.



**Step 2** Move the cursor to choose the contact for editing, then click “” to enter the “Add to Local Contacts” interface.



**Step 3** Edit the contact Name and Number.

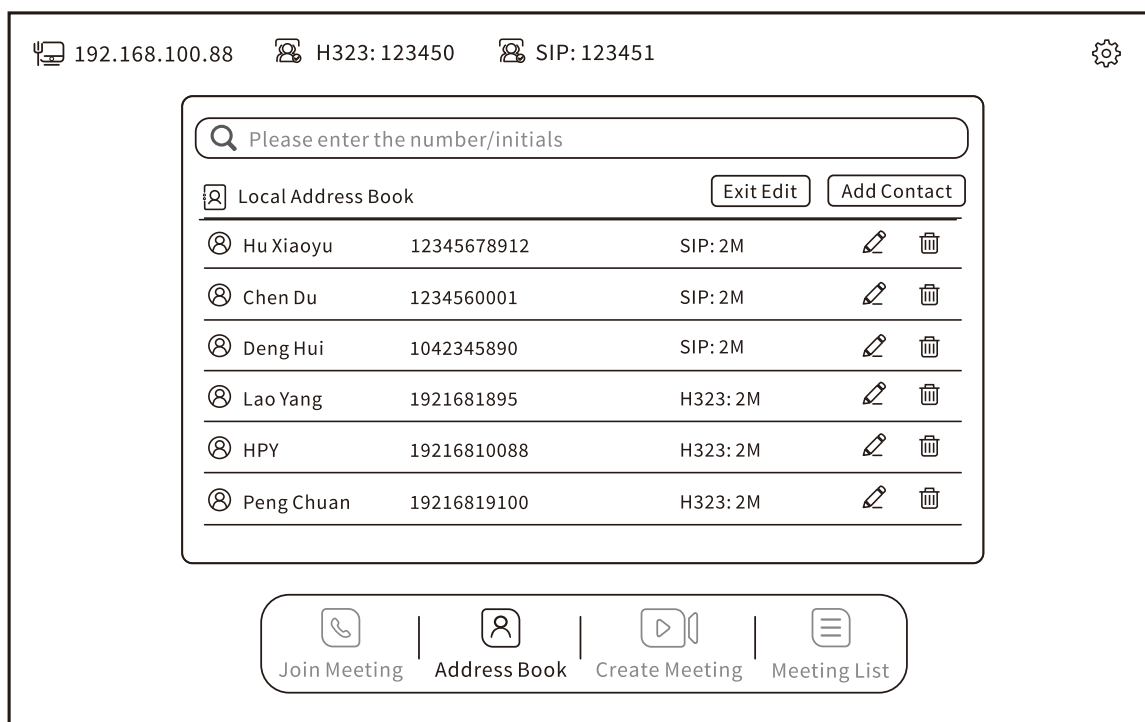
**Step 4** Select the Protocol and Rate.

**Step 5** Select “Confirm” to save.

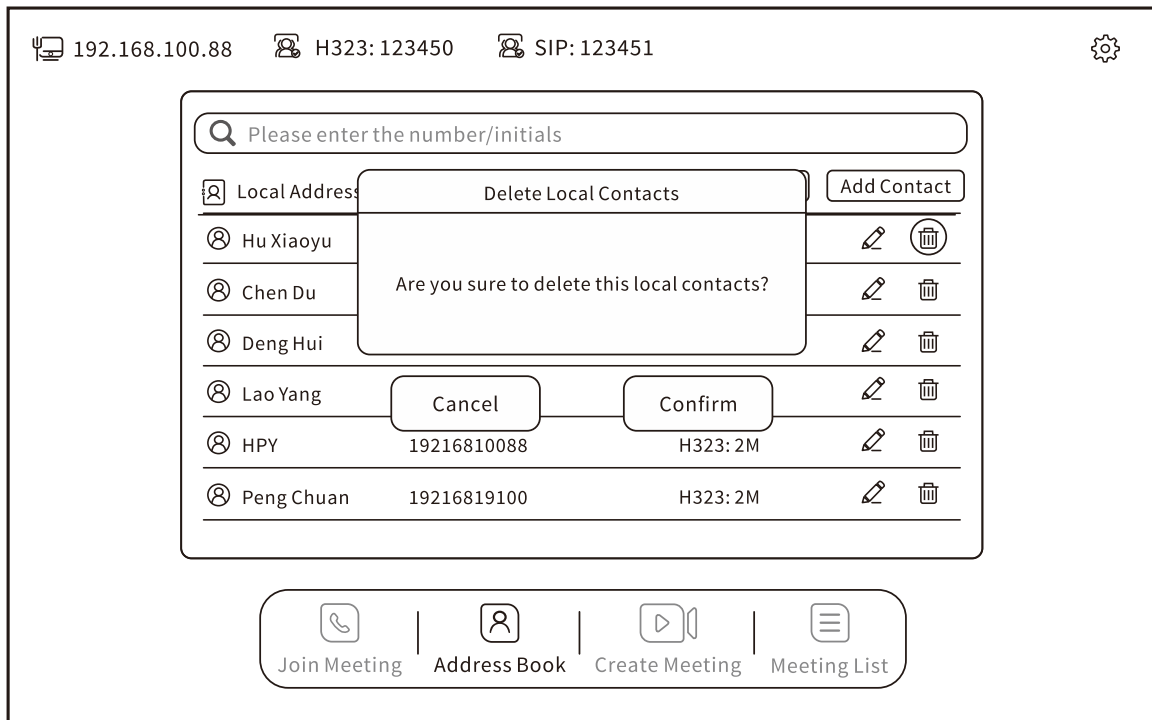
### 2.7.1.3 Delete Contact

#### ➤ Operating Steps

**Step 1** On the main menu interface, select “ > Address Book > Edit”.



**Step 2** Move the cursor to select the contact to delete, select the icon “” to pop up the “Delete Local Contacts” dialog box.



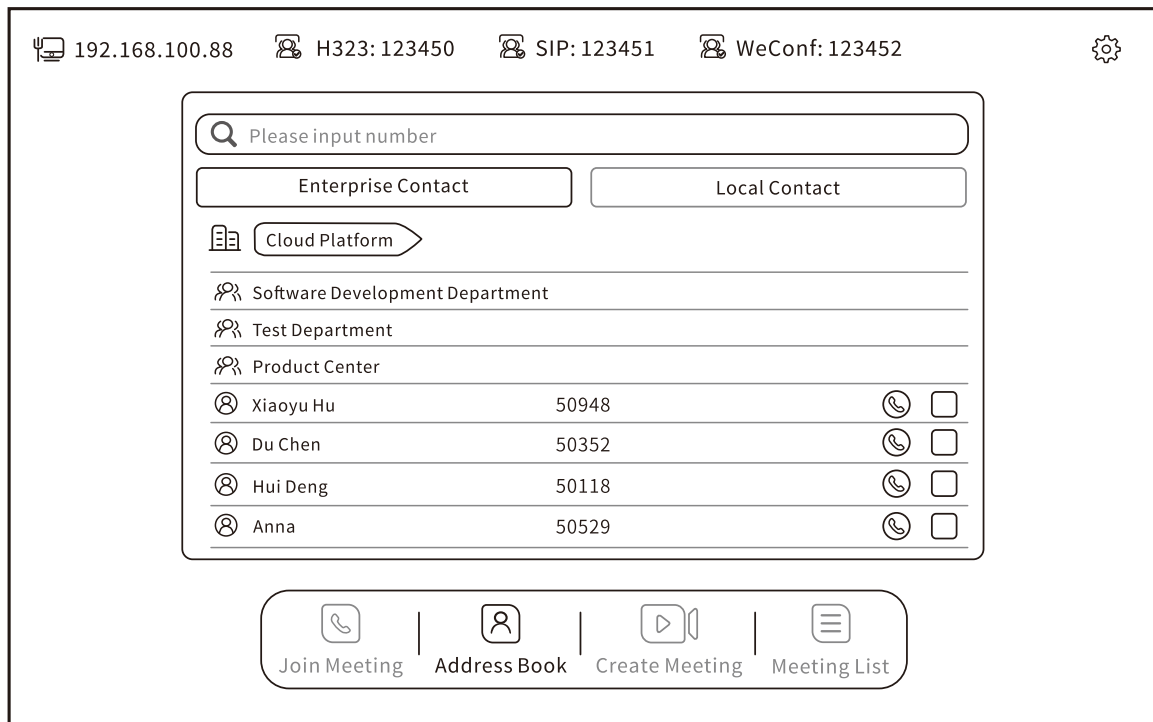
**Step 3** Select “Confirm” to delete the contact.

## 2.7.2 Enterprise Contact (Optional)

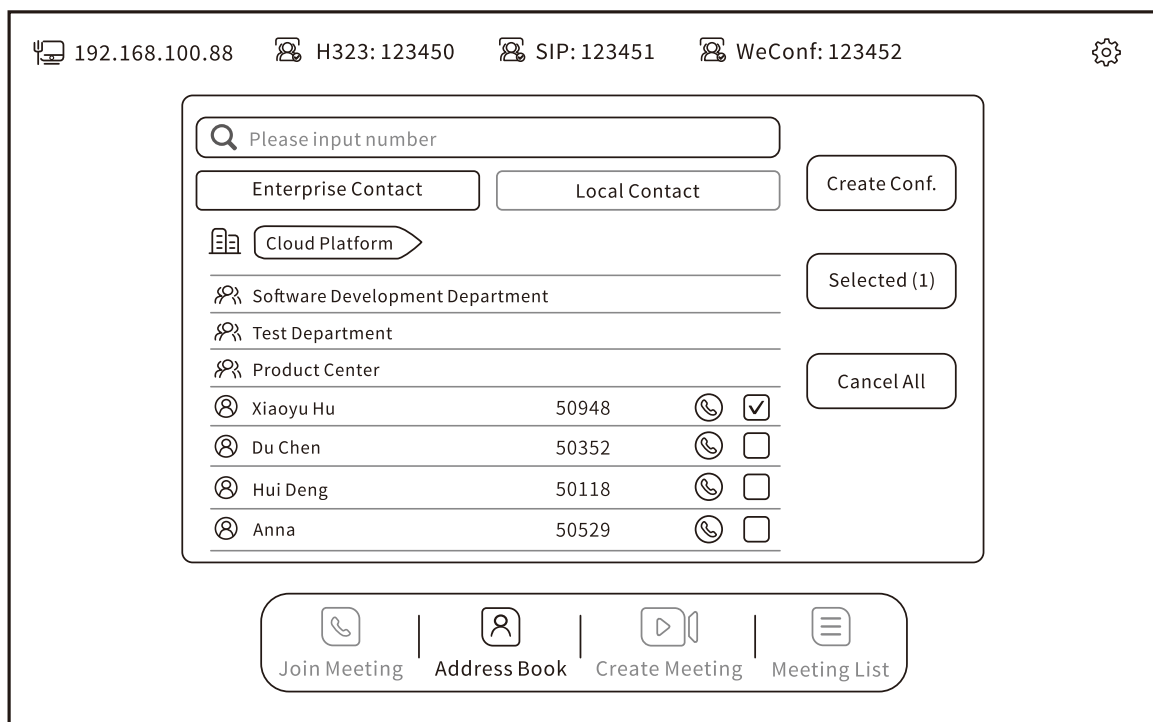
After registering a WeConf account, terminals can automatically download the contact information from the address book server and achieve synchronized updates.

### ➤ Operating Steps

**Step 1** On the main menu interface, select “ > Address Book > Enterprise Contact”.



**Step 2** Move the cursor to the contact and confirm with “” key to pop-up Create Conf., Selected (1), Cancel All option box.



**Step 3** Select “Create Conf.” to enter to the Create Meeting interface.

The screenshot displays the 'Create Meeting' interface of a video conferencing terminal. At the top, status information includes the IP address 192.168.100.88, H323 ID 123450, SIP ID 123451, and WeConf ID 123452, along with a settings gear icon. The main configuration area contains a 'Conference Name' field (0/30 characters), 'Conference Type' options (Immediately selected, Appointment), a 'Password' toggle switch, and a 'Conference Duration' slider set to 0h. A participant list on the left shows 'Xiaoyu Hu'. Action buttons on the right include 'Create Conf.', 'Add Particip...', and 'Select Parti...'. A bottom navigation bar features icons and labels for 'Join Meeting', 'Address Book', 'Create Meeting' (highlighted), and 'Meeting List'.

**Step 4** After configuring the conference parameters, select “Create Conf.” to create the meeting.

## 2.8 Camera

The camera defaults to previewing the main video screen. If the terminal is connected to a secondary video stream, it will default to previewing the secondary video screen.

### ➤ Operating Steps

- Step 1** When on the main menu interface, move the cursor to select “ > Camera” or press the “” key on the remote control to enter the camera interface.
- Step 2** Press the keys on the remote control to control the camera lens (e.g., rotate direction and control zoom etc.). After connecting to the secondary video stream, press the “” key on the remote control to switch the screen layout.
- Step 3** Press the “” key on the remote control to exit the camera interface.

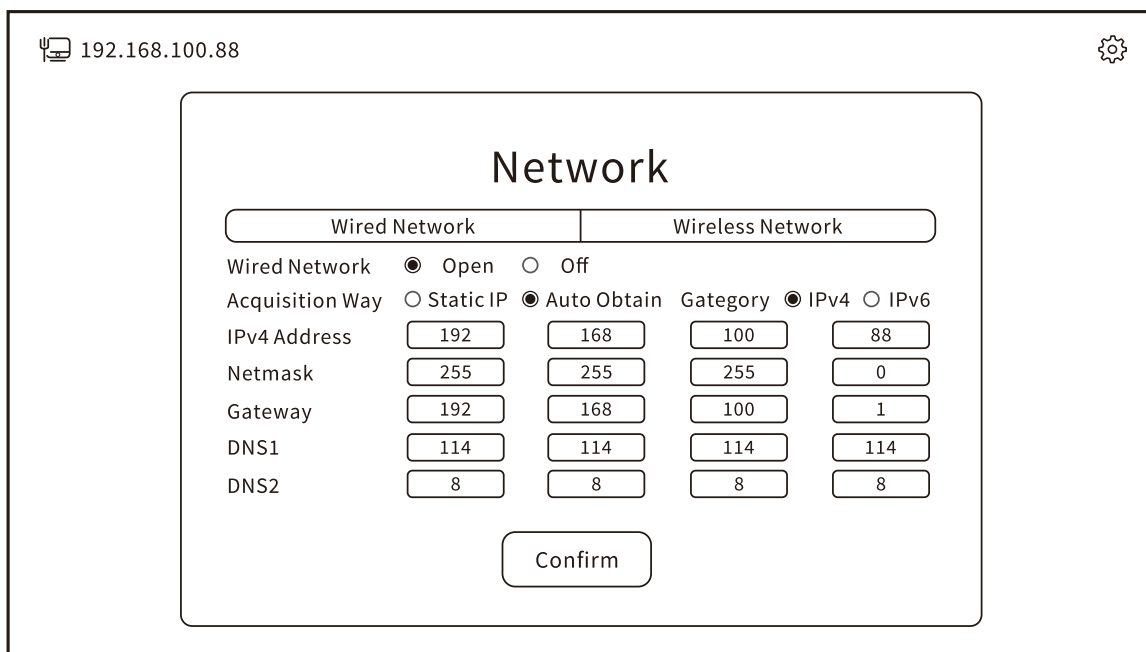
## 2.9 GUI Setting

### 2.9.1 Network

The conference terminal supports wired network connections. Before using a static IP, you must first configure the Ethernet parameters (such as IP address, subnet mask, and gateway information).

#### ➤ Operating Steps

**Step 1** On the main menu interface, select “ >  > Network > Wired Network”.



The screenshot shows the 'Network' configuration screen. At the top left, the IP address '192.168.100.88' is displayed. The main area is titled 'Network' and contains two tabs: 'Wired Network' and 'Wireless Network'. Under the 'Wired Network' tab, there are two radio buttons: 'Open' (selected) and 'Off'. Below this, there are two radio buttons for 'Acquisition Way': 'Static IP' and 'Auto Obtain' (selected). To the right of these is a 'Category' section with two radio buttons: 'IPv4' (selected) and 'IPv6'. Below these are input fields for 'IPv4 Address', 'Netmask', 'Gateway', 'DNS1', and 'DNS2'. Each field is represented by a 2x2 grid of numeric buttons. For example, the 'IPv4 Address' field has buttons for 192, 168, 100, and 88. The 'Netmask' field has buttons for 255, 255, 255, and 0. The 'Gateway' field has buttons for 192, 168, 100, and 1. The 'DNS1' field has buttons for 114, 114, 114, and 114. The 'DNS2' field has buttons for 8, 8, 8, and 8. At the bottom center, there is a 'Confirm' button.

**Step 2** Configure the Ethernet parameters, which are shown in the following table.

**Step 3** Select “Confirm” to save.

| Parameter       | Parameter Declaration                                                                                                                                                                                                                                                                                           | Parameter Setting    |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Wired Network   | Open/Off wired network.                                                                                                                                                                                                                                                                                         | Default: Open        |
| Acquisition Way | <ul style="list-style-type: none"> <li>Auto obtain: The terminal automatically obtains the IP address through the DHCP server.</li> <li>Static IP: The IP address of terminal is assigned by the network administrator. You need to configure the IP address, subnet mask, gateway, and DNS address.</li> </ul> | Default: Auto obtain |
| Protocol        | Configure the network protocol: IPv4, IPv6.                                                                                                                                                                                                                                                                     | Default: IPv4        |
| IPv4/6 Address  | Configure the IP address of the terminal.                                                                                                                                                                                                                                                                       | Default: Auto obtain |

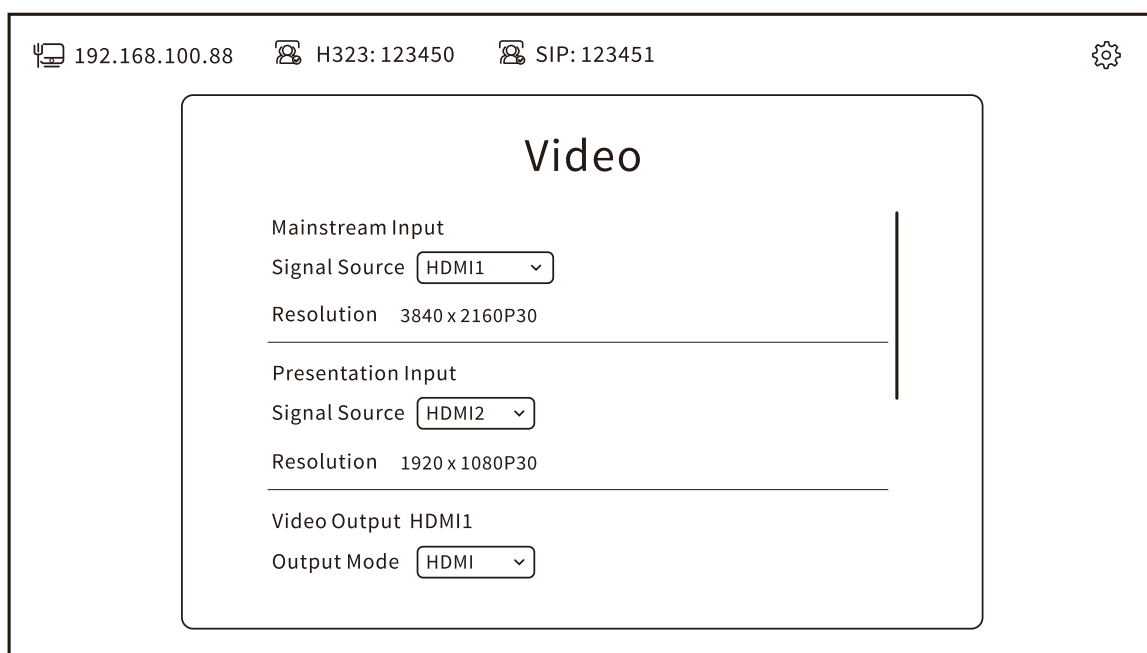
| Parameter | Parameter Declaration                                                                                                                                                                                                                               | Parameter Setting    |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Netmask   | Configure the subnet mask for the terminal.                                                                                                                                                                                                         | Default: Auto obtain |
| Gateway   | Configure the gateway address corresponding to this terminal's IP.                                                                                                                                                                                  | Default: Auto obtain |
| DNS       | After the IP address of the DNS server is configured, the domain name can be used for the address of the GK server and the SIP server. The DNS server will resolve the IP address of the GK server and the SIP server according to the domain name. | Default: Auto obtain |

## 2.9.2 Video

Configure Video Mainstream Input, Presentation Input, Video Output, Media Optimization, and Camera Settings parameters etc.

### ➤ Operating Steps

**Step 1** On the main menu interface, select “ >  > Video”.



**Step 2** Configure the “Video” parameters, which are shown in the following table.

**Step 3** Press the “” key on the remote control to save and return to the upper-level interface.

| Parameter        | Parameter Declaration                                                            | Parameter Setting                                               |
|------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Mainstream Input | Signal source: HDMI1, HDMI2, HDMI3, NET VIDEO.                                   | Default: HDMI1                                                  |
|                  | Resolution: Displays the resolution value of the mainstream input signal source. | Default: Displays the actual value for the current signal input |

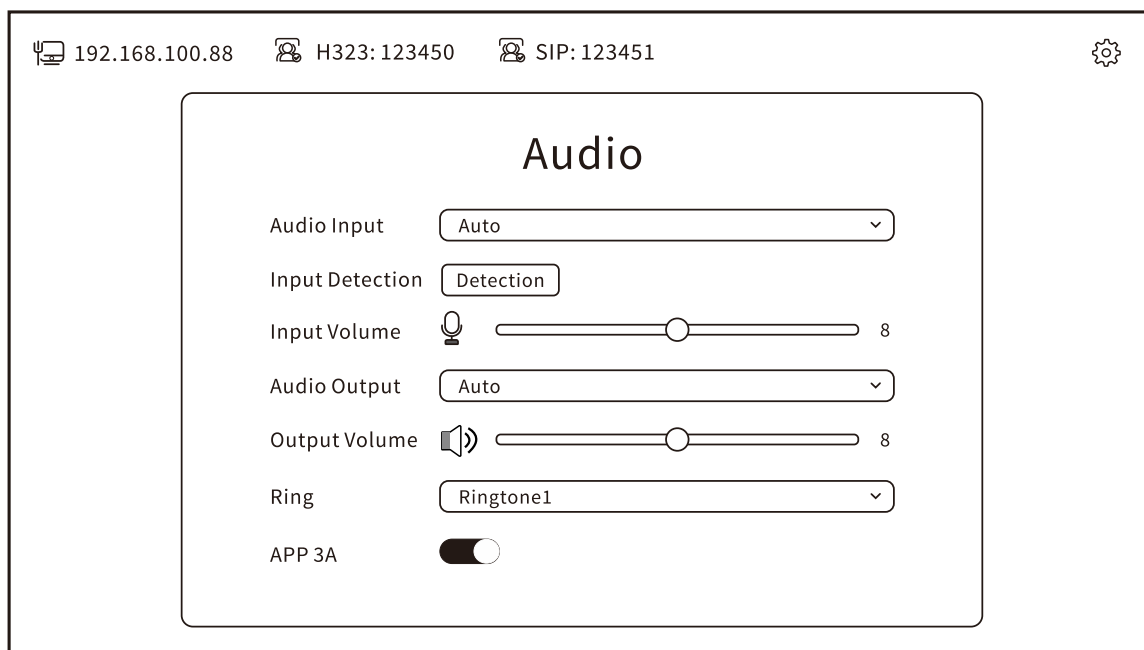
| Parameter                 | Parameter Declaration                                                                                                                                           | Parameter Setting                                               |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Presentation Input        | Signal source: HDMI1, HDMI2, NET VIDEO1.                                                                                                                        | Default: HDMI2                                                  |
|                           | Resolution: Displays the resolution value of the presentation input signal source.                                                                              | Default: Displays the actual value for the current signal input |
| Video Output<br>HDMI1/SDI | The default video output mode is HDMI.                                                                                                                          | Default: HDMI                                                   |
|                           | Resolution: 4KP60, 4KP30, 1080P60, 720P60 (the output resolution is obtained through EDID negotiation, and different monitors negotiate different resolutions). | Default: 4KP30                                                  |
| Video Output<br>HDMI2     | The default output mode is HDMI.                                                                                                                                | Default: HDMI                                                   |
|                           | Resolution: 4KP60, 4KP30, 1080P60, 720P60 (the output resolution is obtained through EDID negotiation, and different monitors negotiate different resolutions). | Default: 4KP30                                                  |
| Video Output<br>HDMI3     | The default output mode is HDMI.                                                                                                                                | Default: HDMI                                                   |
|                           | Resolution: 4KP60, 4KP30, 1080P60, 720P60 (the output resolution is obtained through EDID negotiation, and different monitors negotiate different resolutions). | Default: 4KP30                                                  |
| Media Optimization        | Enable/disable the media optimization feature.                                                                                                                  | Default: Disabled                                               |
| Camera Settings           | Focusing: Select “Start” to enter the camera interface to adjust the PTZ (Pan-Tilt-Zoom).                                                                       | /                                                               |
|                           | Preset position: Select “Edit” to enter the Preset Position interface to set the preset bit (1~9).                                                              |                                                                 |

### 2.9.3 Audio

Configure Audio Input, Input Detection, Audio Output, Output Volume, Ring and other parameters.

#### ➤ Operating Steps

**Step 1** On the main menu interface, select “ >  > Audio”.



**Step 2** Configure the “Audio” parameters, which are shown in the following table.

**Step 3** Press the “↶” key on the remote control to save and return to the upper-level interface.

| Parameter       | Parameter Declaration                                                                                                                         | Parameter Setting   |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Audio Input     | Configure the audio input: Auto, Customize.                                                                                                   | Default: Auto       |
| Input Detection | Select “Detection” to enter the Microphone Detection interface. Please speak into the microphone to detect whether the sound input is normal. | /                   |
| Input Volume    | Configure the audio input value.                                                                                                              | Default: 8          |
| Audio Output    | Configure the audio output: Auto, Customize.                                                                                                  | Default: Auto       |
| Output Volume   | Configure the audio output value.                                                                                                             | Default: 8          |
| Ring            | The default ring is Ringtone 1.                                                                                                               | Default: Ringtone 1 |
| APP 3A          | Enable/disable the APP 3A function, when APP 3A is enabled, third-party applications will use system 3A to process the audio.                 | Default: Enabled    |

## 2.9.4 General

Configure the terminal Venue Name, Self-help Sleep, SIP Transmission Mode, Language, Time Zone, and select whether to enable Auto Answer, No Disturbing, WEB Access, and other functions.

### ➤ Operating Steps

**Step 1** On the main menu interface, select “☰ > ⚙ > General”.

192.168.100.88 H323: 123450 SIP: 123451

## General

Venue Name

Color  Front Size  Position

Auto Answer ☐ No Disturbing ☐

Self-help Sleep ☐ 10 min ☐ 30 min ☐ 60 min ☒ Never

Interface Style ☒ Classic Style

WEB Access ☐

vTouch Access ☐

SIP Transmission Mode ☒ TCP ☐ UDP ☐ TLS

SRTP Encryption ☐

Language

**Step 2** Configure the “General” parameters, which are shown in the following table.

**Step 3** Press the “↩” key on the remote control to save and return to the upper-level interface.

| Parameter                         | Parameter Declaration                                                                                                           | Parameter Setting      |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Venue Name                        | Venue name: Configure terminal display name.                                                                                    | Default: Empty         |
|                                   | Color: Select the text display color.                                                                                           | Default: White         |
|                                   | Size: Select the text display size                                                                                              | Default: Medium        |
|                                   | Location: Select the text display location.                                                                                     | Default: Right-bottom  |
| Auto Answer                       | Enable/disable Auto Answer, the terminal will automatically answer the call meeting when enabled.                               | Default: Disabled      |
| No Disturbing                     | Enable/disable No Disturbing, the terminal will enter call no disturb mode and refuse to answer all call meetings when enabled. | Default: Disabled      |
| Self-help Sleep                   | Configure the terminal self-service sleep time: 10min, 30min, 60min, Never.                                                     | Default: Never         |
| Interface Style                   | The default terminal Interface style is Classic Style.                                                                          | Default: Classic Style |
| Web Access                        | Enable/disable the WEB access rights.                                                                                           | Default: Disabled      |
| Automatically Close in 30 Minutes | Enable/disable automatically close in 30 minutes (Effective when WEB access is enabled).                                        | Default: Enabled       |
| HTTP Access                       | Enable/disable HTTP Access right (Effective when WEB access is enabled).                                                        | Default: Enabled       |

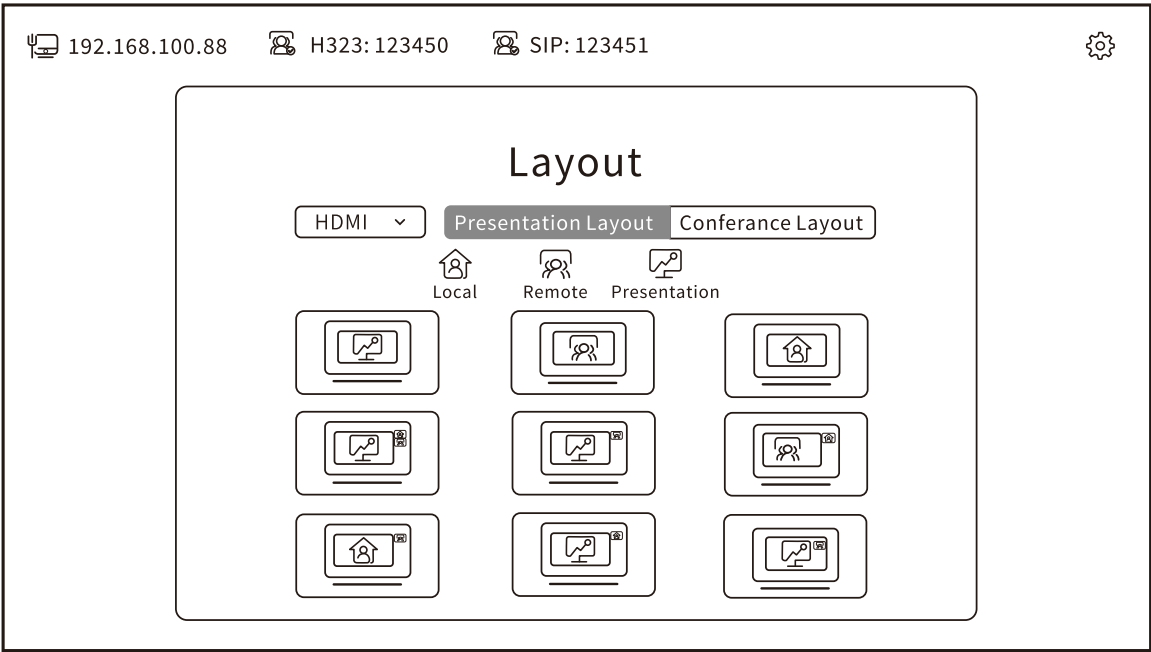
| Parameter                    | Parameter Declaration                                                                                                        | Parameter Setting            |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| HTTPS Access                 | Enable/disable HTTPS Access right (Effective when WEB access is enabled).                                                    | Default: Enabled             |
| vTouch Access                | Enable/disable the vTouch network access right (vTouch access will take effect after the next restart).                      | Default: Disabled            |
| SIP Transmission Mode        | Configure the SIP transmission mode: TCP, UDP, TLS.                                                                          | Default: TCP                 |
| SRTP Encryption              | Enable/disable the SRTP encryption function.                                                                                 | Default: Disabled            |
| Language                     | Configure terminal system language: 中文(简体), 中文(繁体), English.                                                                 | Default: English             |
| Time Zone                    | Select the time zone of the area.                                                                                            | Default: China Standard Time |
| Time Format                  | Configure the system time display format: 24 Hours Clock, 12 Hours Clock.                                                    | Default: 12 Hours Clock      |
| Set Time Automatically       | Enable/disable the automatic setting time. When this function is enabled, the system automatically obtains the network time. | Default: Enabled             |
| Enable Infrared Transmission | Enable/disable infrared transmission.                                                                                        | Default: Disabled            |

## 2.9.5 Layout

When you need to display a combined image of the venue video and presentation screen on a display device, you can choose to switch the screen layout.

### ➤ Operating Steps

**Step 1** On the main menu interface, select “ >  > Layout”.



**Step 2** Configure the Picture Layout parameters, which are shown in the following table.

**Step 3** Press the “↶” key on the remote control to save and return to the upper-level interface.

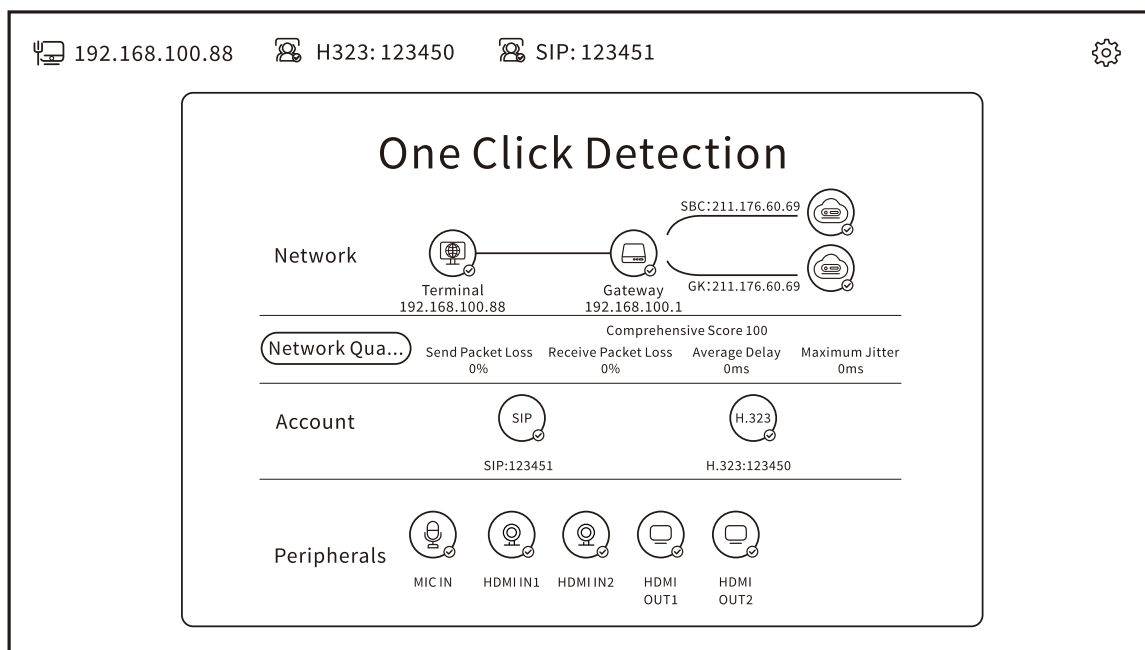
| Parameter               | Parameter Declaration                                             |
|-------------------------|-------------------------------------------------------------------|
| Layout Output Interface | Select the video output interface for switching layout.           |
| Layout Options          | Select the layout option: Presentation Layout, Conference Layout. |
| Presentation Layout     | Configure the presentation layouts.                               |
| Conference Layout       | Configure the conference Layouts.                                 |

2.9.6 One Click Detection

On the One-click Detection interface, you can check the terminal network, account, and whether each interface recognizes device access.

➤ Operating Steps

**Step 1** On the main menu interface, select “☰ > ⚙ > One Click Detection”.



**Step 2** Press the “↶” key on the remote control to save and return to the upper-level interface.

## 2.9.7 About

On the “About” interface, you can view Device Model, SN, Software Version etc., and you can also perform Factory Reset, Remote Upgrade, USB Upgrade.

### 2.9.7.1 Upgrade

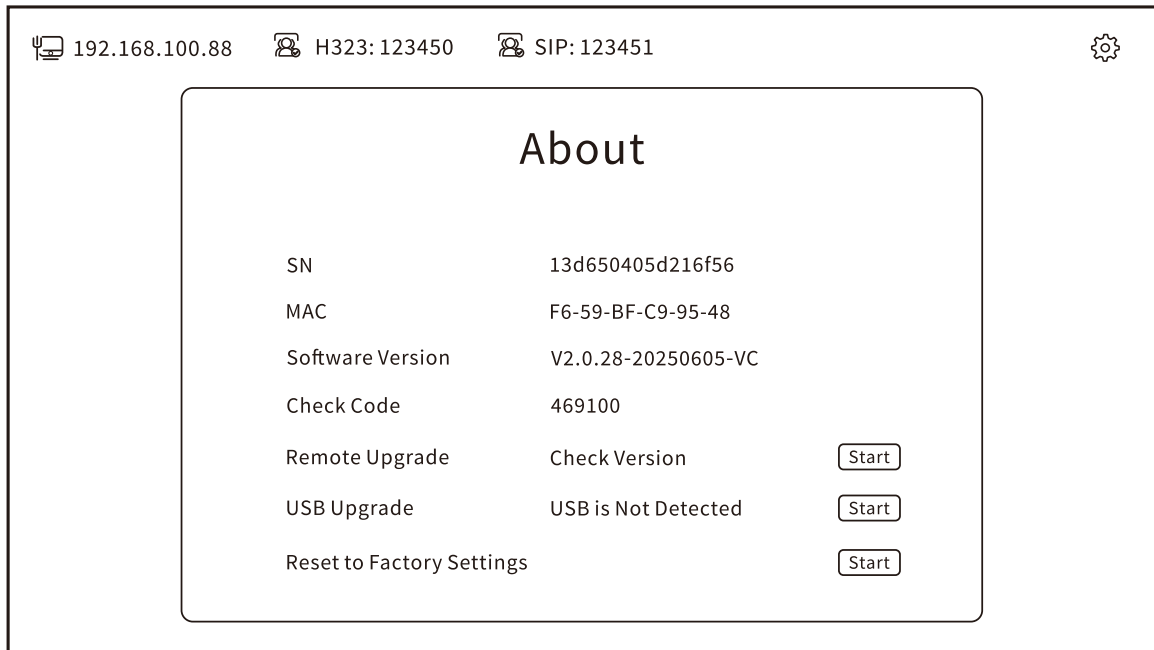
Upgrade Mode: USB Upgrade, Remote Upgrade.

- **USB Upgrade:** The terminal automatically detects the new version in the USB flash drive for differential upgrade.
- **Remote Upgrade:** The terminal will get the upgrade file from the specified server and upgrade automatically.

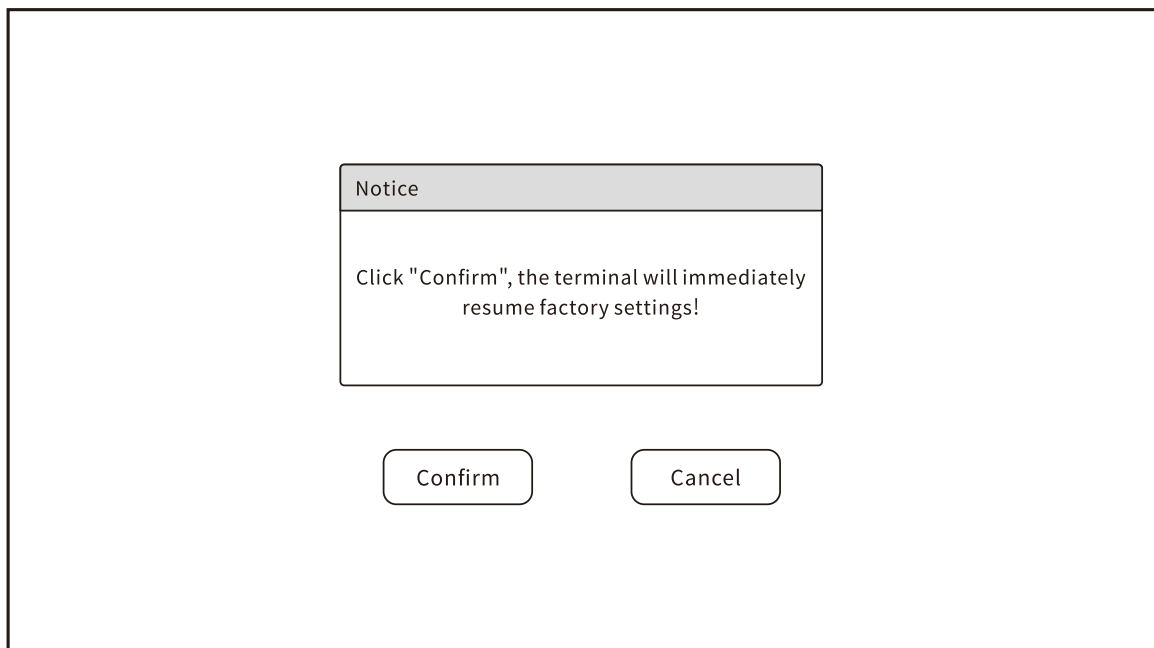
### 2.9.7.2 Reset to Factory Settings

#### ➤ Operating Steps

**Step 1** On the main menu interface, select “☰ > ⚙ > About”.



**Step 2** Select the “Start” button in the Reset to Factory Settings bar to pop-up the recovery factory settings notice



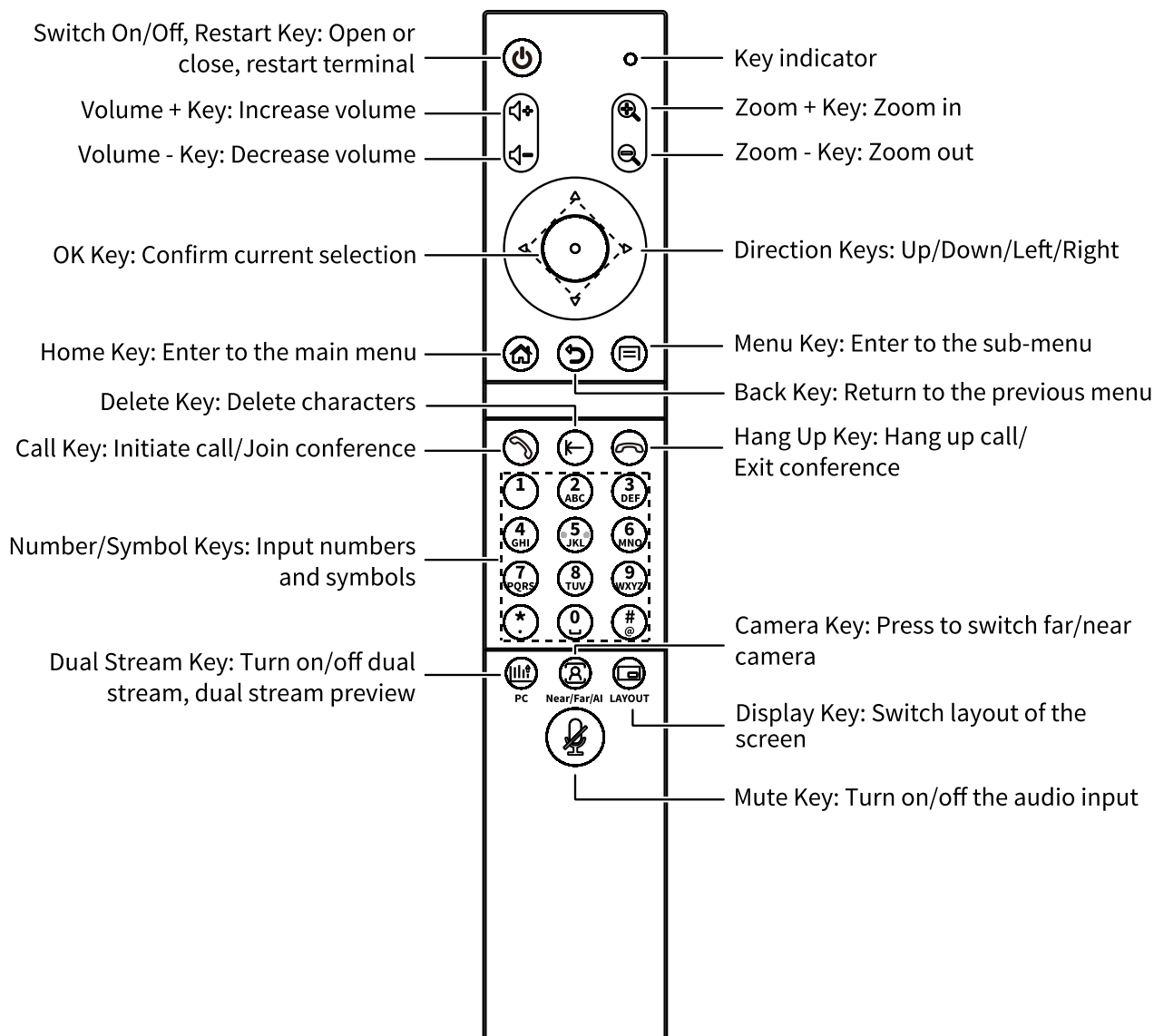
**Step 3** Select “Confirm” to immediately restore the factory settings and restart the terminal.



Notice

After restoring the factory setting, all the previously configured parameters will be lost, please proceed with caution.

## 2.10 Remote Control



Notice

The performance of the remote control may be affected by strong light, and the normal operating distance is approximately 10 meters.

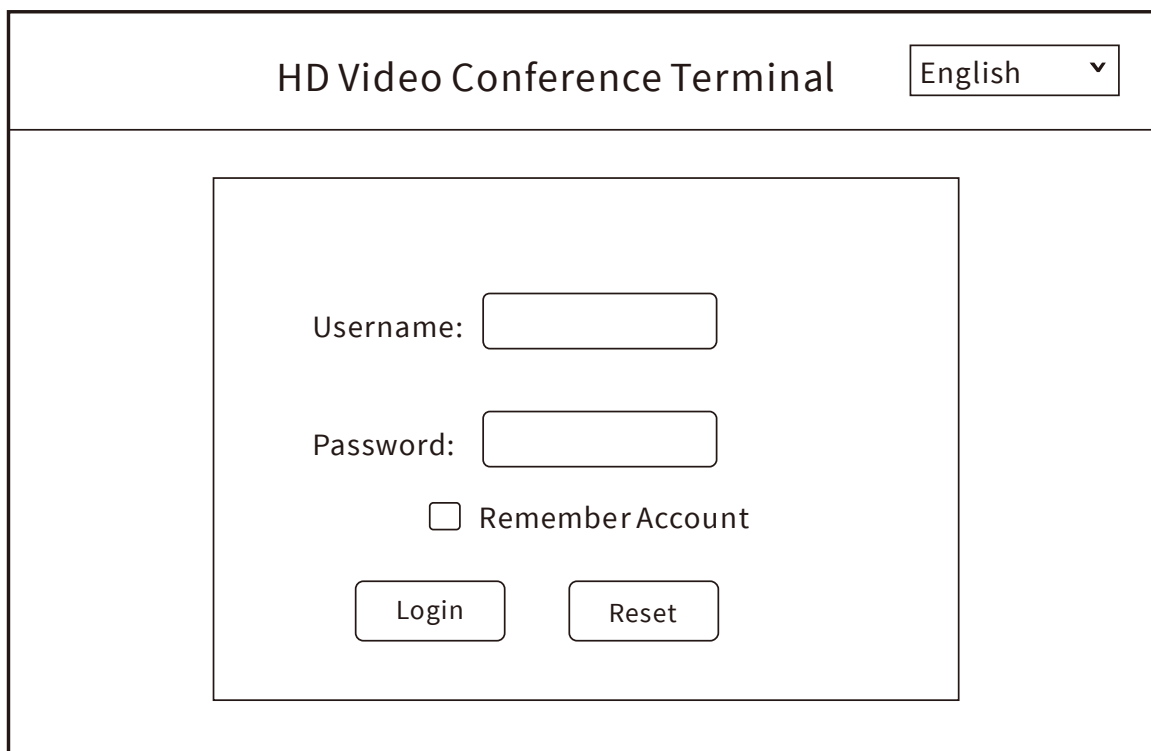
**Instruction of Remote Control Shortcut Key:**

| Shortcut Key                                        | Function                                                     |
|-----------------------------------------------------|--------------------------------------------------------------|
| Press [Hang Up] key for 5 times                     | Upload the log to the log server                             |
| Press [#] + [*] + [#] keys sequentially             | Lock the terminal                                            |
| Press [*] + [#] + [*] keys sequentially             | Unlock the terminal                                          |
| Press [Hang Up] key + Numeric key 1 sequentially    | Switch HDMI OUT 1 output resolution                          |
| Press [Delete] key + Numeric keys 1-9 sequentially  | Call presets                                                 |
| Press [*] + [#] + Numeric keys 1/2/3/4 sequentially | Switch the main video source: HDMI1, HDMI2, HDMI3, NET VIDEO |

## 3 Operational (WEB)

### 3.1 Login

1. Enter the terminal's IP address + port number (8081) in the browser to access the terminal WEB login page (before logging in to the WEB page, you must first select “ >  > General” in the GUI interface to enable the “WEB Access” permission).



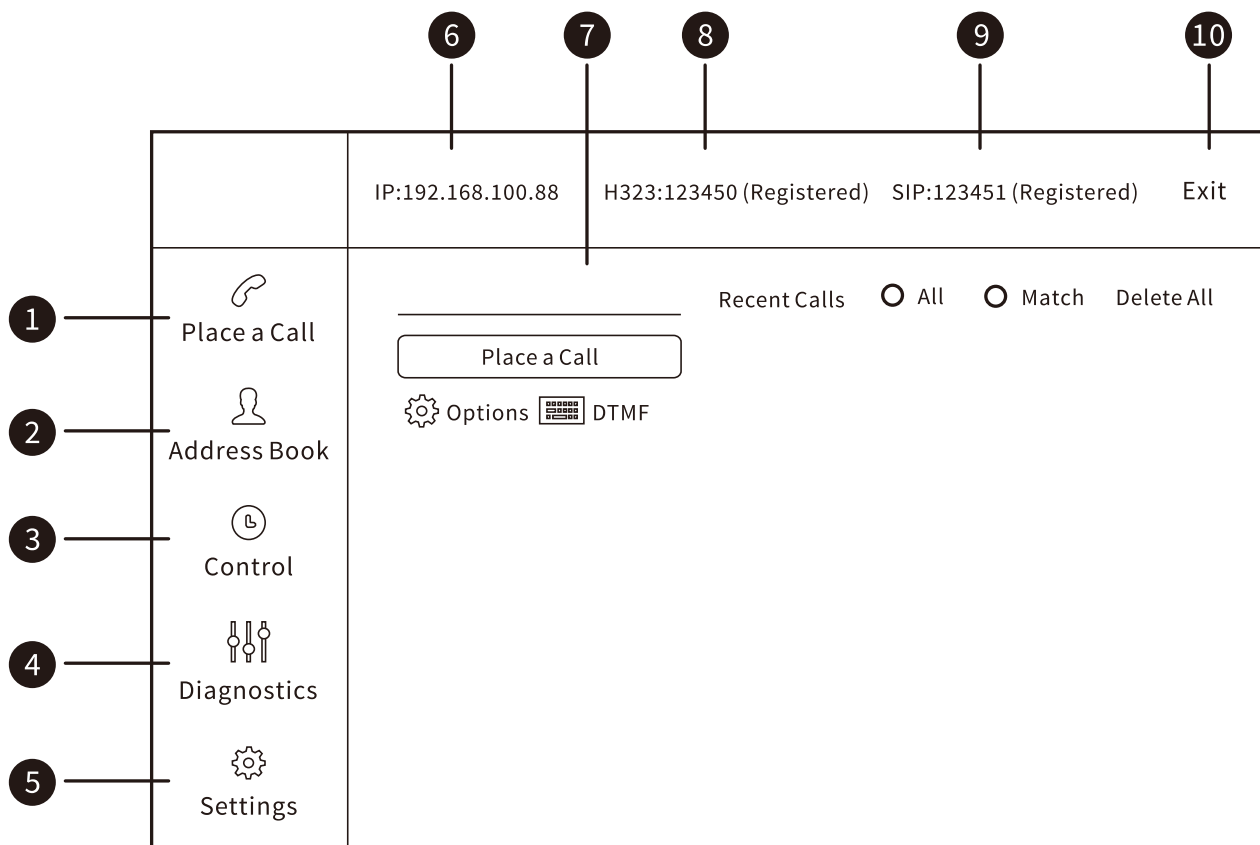
HD Video Conference Terminal English ▼

Username:

Password:

☐ Remember Account

2. Enter the default username “admin” and default password “Cw + the last six digits of the terminal’s serial number in reverse order + \$”, select “Login” to enter the terminal WEB configuration page (as shown below).



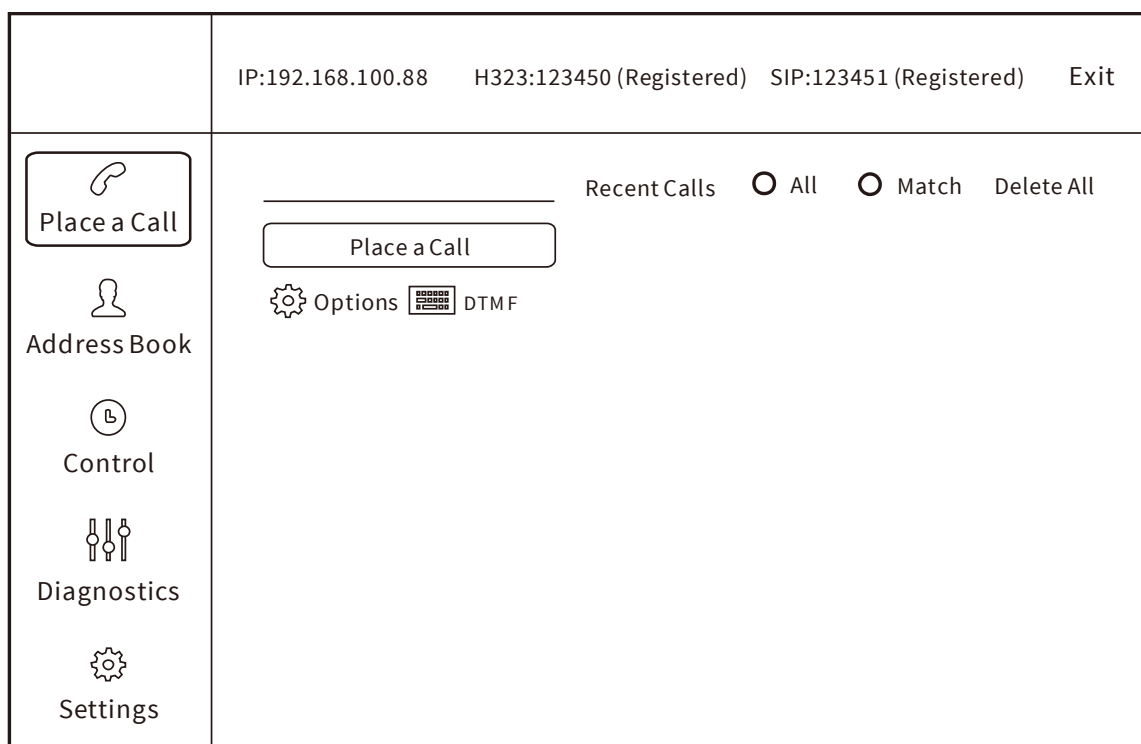
| Number | Name         | Explain                                                                                               |
|--------|--------------|-------------------------------------------------------------------------------------------------------|
| 1      | Place a Call | Move the cursor to select and enter the Place a call menu page to configure the parameters.           |
| 2      | Address Book | Move the cursor to select and enter the address book menu page to configure parameters.               |
| 3      | Control      | Move the cursor to select and enter the control menu page to configure the parameters.                |
| 4      | Diagnostics  | Move the cursor to select and enter the diagnostics menu page to configure the parameters.            |
| 5      | Settings     | Move the cursor to select and enter the Settings menu page to configure parameters.                   |
| 6      | IP Address   | Displays the current IP address.                                                                      |
| 7      | Place a Call | Displays the place a call menu page parameters options, such as recent calls, delete all, match, etc. |
| 8      | H323 Account | H 323 account registration status.                                                                    |
| 9      | SIP Account  | SIP account registration status.                                                                      |
| 10     | Exit         | Move the cursor to select and exit the terminal WEB configuration page.                               |

## 3.2 Meeting Calling

The terminal supports meeting initiation through address book, call record and input meeting account, number or IP address.

### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “” to enter the call menu page.



**Step 2** There are several ways to select the remote venue:

- Manually enter the remote venue account, number or IP address in the input box;
- Select the remote venue account, number or IP address to be called in the call list;
- Select the remote venue account, number, or IP address in the address book list.

**Step 3** The configuration venue parameters are shown in the table below.

| Parameter               | Parameter Declaration                                                                                                               | Parameter Setting                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Venue Account/Number/IP | Remote venue account, number, or IP address.                                                                                        | Default: Display the most recently called conference account, number/IP address |
| Options                 | Select the call rate: 64Kbps, 128Kbps, 192Kbps, 256Kbps, 384Kbps, 512Kbps, 768Kbps, 1Mbps, 1.5Mbps, 2Mbps, 4Mbps, 6Mbps, and 8Mbps. | Default Rate: 2Mbps                                                             |
|                         | Select the call protocol: SIP, H.323, automatic.                                                                                    | Default Protocol: SIP                                                           |

| Parameter | Parameter Declaration                                                  | Parameter Setting |
|-----------|------------------------------------------------------------------------|-------------------|
| DTMF      | DTMF Keyboard: Used to enter the conference ID or conference password. | /                 |

**Step 4** Click “Call” to initiate the meeting.

**Step 5** Click “” to end the meeting.

## 3.3 Presentation

Connect a computer or high-definition camera to the terminal via an HDMI cable as an auxiliary stream source or use a wireless BYOM Pod to connect the computer as a wireless auxiliary stream source. Dual streaming is only allowed when the terminal detects an auxiliary stream source. When the dual streaming is enabled, the remote end can see the shared screen of the local end.

### Prerequisite>>

The terminal accesses the secondary video source and is normally in the meeting, and the remote end supports dual streams.

### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Presentation”.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                          |                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                          |                                                                                |
| <br>Place a Call<br><br><br>Address Book<br><br><br>Control<br><br><br>Diagnostics<br><br><br>Settings | <div>  Presentation </div> <div>  Camera Control </div> <div>  Audio Control </div> <div>  Record Control </div> <div>  Switch Video Source </div> <div>  Picture Switching </div> <div>  Conference Control </div> <div>  Conference Lock </div> <div>  Power Control </div> | Presentation<br><br>Presentation Preview | <input checked="" type="checkbox"/><br><br><input checked="" type="checkbox"/> |

**Step 2** Enabling “Presentation” to send the second video stream to participating terminal.

When “Presentation Preview” is enabled, only the local end supports previewing the second video stream.

**Step 3** Enter the call menu page and select “” to end the meeting.

## 3.4 Call Records

On the latest call page, you can view all, incoming and outgoing records of the terminal, or clear the call records.

### 3.4.1 View All Call Records

#### ➤ Operating Steps

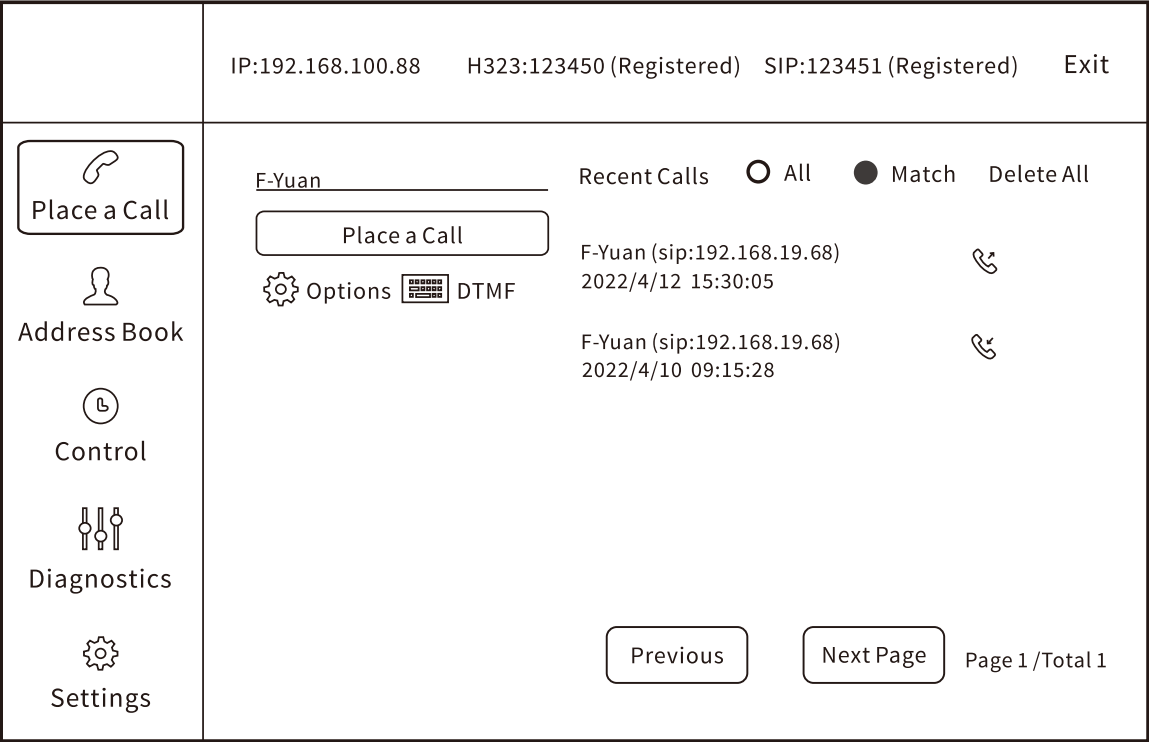
**Step 1** Enter the WEB configuration page, select “ > All” to view all call records.

|                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                     |  |  |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
|                                                                                                               | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                                                                                                                                                                                                    |  |  |
| <div>Place a Call</div> <div>Address Book</div> <div>Control</div> <div>Diagnostics</div> <div>Settings</div> | <div>Recent Calls    <input checked="" type="radio"/> All    <input type="radio"/> Match    Delete All</div> <div>Place a Call</div> <div>Options    DTMF</div> <div> <p>F-Yuan (sip:192.168.19.68)<br/>2022/4/12 15:30:05</p> <p>PengChuang (sip:192.168.18.108)<br/>2022/4/10 09:15:28</p> <p>192.168.3.192 (sip:192.168.3.192)<br/>2022/4/08 16:58:52</p> </div> |  |  |
|                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                     |  |  |
|                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                     |  |  |
|                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                     |  |  |
|                                                                                                               | <div>Previous    Next Page    Page 1 /Total 1</div>                                                                                                                                                                                                                                                                                                                 |  |  |

### 3.4.2 Match Call Records

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “” enter the account, IP address or name to be matched in the input field, select “Match” to view the match call records.



3.4.3 Clear Call Records

3.4.3.1 Delete One by One

➤ Operating Steps

- Step 1** Enter the WEB configuration page, select “ > All”.
- Step 2** Move the cursor to select the record to be deleted and select “More”.

|                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                      | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <div><div>Place a Call</div><div>Address Book</div><div>Control</div><div>Diagnostics</div><div>Settings</div></div> | <div>Recent Calls    <input checked="" type="radio"/> All    <input type="radio"/> Match    Delete All</div> <div><div>Place a Call</div><div>Options    DTMF</div></div> <div><div>F-Yuan (sip:192.168.19.68)<br/>2022/4/12 15:30:05</div><div>PengChuang (sip:192.168.18.108)<br/>2022/4/10 09:15:28</div><div>192.168.3.192 (sip:192.168.3.192)<br/>2022/4/08 16:58:52</div></div> <div><div>Place a call</div><div>More</div></div> <div><div>Previous</div><div>Next Page</div><div>Page 1 /Total 1</div></div> |



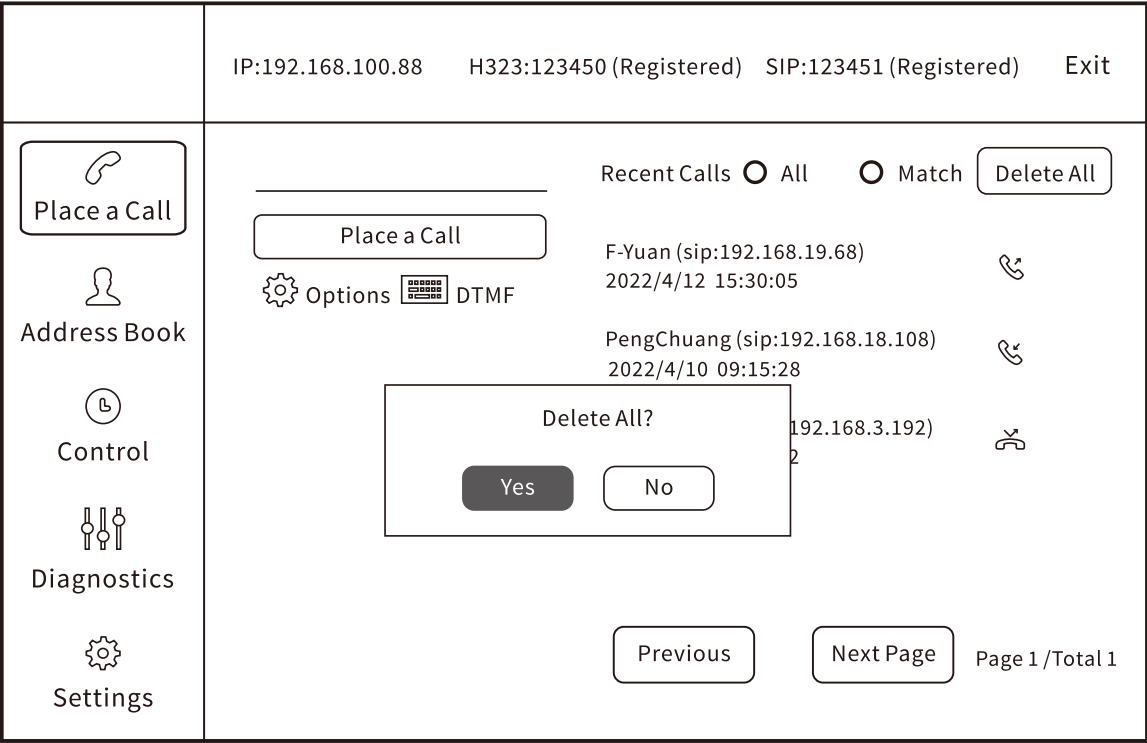
|                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                      | Ip:192.168.100.88    H323:123450 (Registered)    Sip:123451 (Registered)    Exit                                                                                                                                                                                                                                                                                                                                                                                      |
| <div><div>Place a Call</div><div>Address Book</div><div>Control</div><div>Diagnostics</div><div>Settings</div></div> | <div>192.168.3.192</div> <div><div>Place a Call</div><div>Options    DTMF</div></div> <div><div>More Info</div><div>Terminal Name: 192.168.3.192</div><div>Terminal Address: 192.168.3.192</div><div>Hang Up Reason: Far Exit</div><div>Call Rate: 1920kbps</div><div>Protocol: H323</div><div>Category: Missed</div><div>Duration: 00:00:00</div><div>Date: 2022/04/10 16:58</div></div> <div><div>Add To Add ...</div><div>Delete Record</div><div>Back</div></div> |

**Step 3** Select “Delete Record” to clear the selected call record.

3.4.3.2 Delete All

➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “☎ > Delete All” to pop-up the “Delete All?” dialog box.



**Step 2** Select “Yes” to clear all the call records.

## 3.5 Address Book

The address book is used to store contact information. Using the address book, you can directly initiate calls to relevant contacts in the address book.

### 3.5.1 Add Address

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Local > ” to enter the Add Avenue page.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <br>Place a Call<br><br><br>Address Book<br><br><br>Control<br><br><br>Diagnostics<br><br><br>Settings | <div> <div>&lt; Local &gt;    </div> <div>Add Avenue</div> <div>Groups <input type="text" value="Default"/></div> <div>Name: <input type="text"/></div> <div>Address: <input type="text"/></div> <div>Protocol &lt; H.323 &gt;</div> <div>Rate &lt; 2Mbps &gt;</div> <div><input type="button" value="OK"/></div> <div><input type="button" value="Back"/></div> </div> <div> <div> Search For Contacts</div> <div><input type="text" value="All"/> </div> <div>✓ All</div> </div> |

**Step 2** Click the “Groups” box drop-down list to select Venue Group.

**Step 3** Enter the Venue Name that you need to add in the Name bar.

**Step 4** Enter the Venue Number or IP Address in the Address bar.

**Step 5** Select the Call Protocol and Rate.

**Step 6** Select “OK” to save the information.

### 3.5.2 Edit Address

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “”.

**Step 2** Move the cursor to select the venue to be edited to enter the venue modification page.

|                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|                                                                                                               | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <div>Place a Call</div> <div>Address Book</div> <div>Control</div> <div>Diagnostics</div> <div>Settings</div> | <div>&lt; Local &gt;    </div> <div>Search For Contacts</div> <div>All </div> <div>F-Yuan    192.168.19.68    </div> <div>PengChuang    192.168.18.108</div> <div>Edit Avenue</div> <div>Groups <input type="text" value="Default"/></div> <div>Name: F-Yuan</div> <div>Address: 192.168.19.68</div> <div>Protocol &lt; SIP &gt;</div> <div>Rate &lt; 2Mbps &gt;</div> <div>Place a Call    Delete</div> <div>Save    Back</div> |

**Step 3** Click the “Group” box drop-down list to select Venue Group.

**Step 4** Edit the Venue Name in the “Name” field.

**Step 5** Edit the Address Number or IP Address in the “Address” field.

**Step 6** Select the “Protocol” and “Rate”.

**Step 7** Select “Save”.

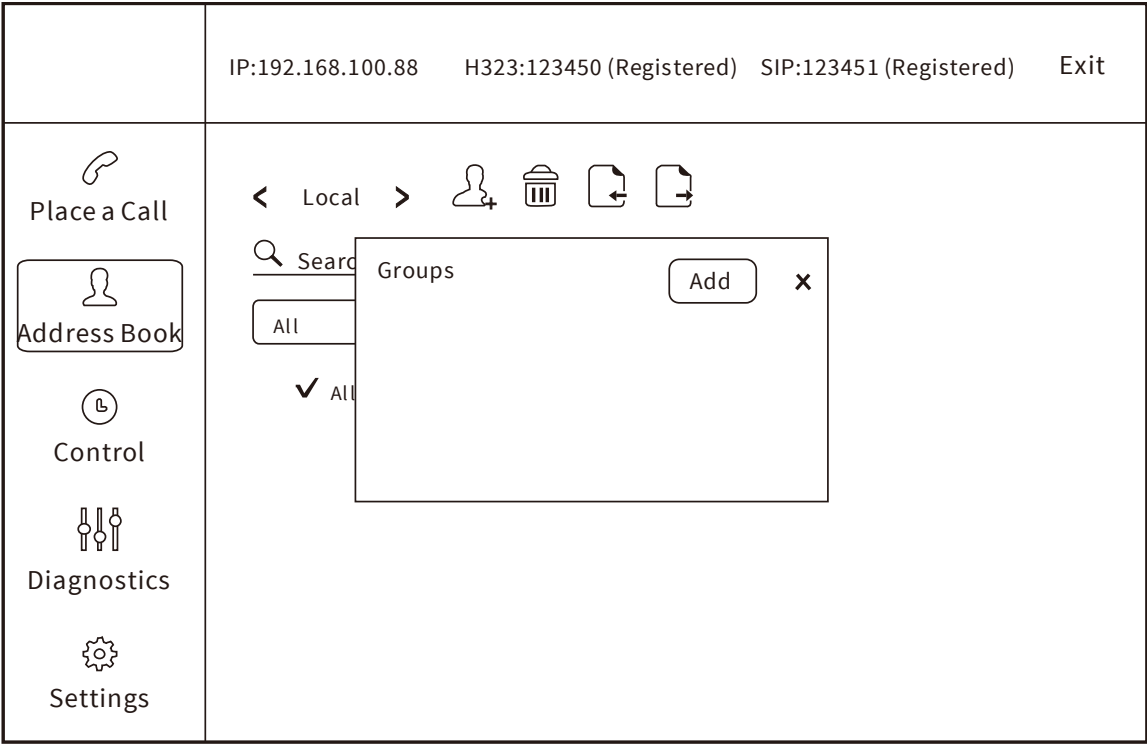
3.5.3 Management Group

Address books support adding, editing, and deleting groups.

3.5.3.1 Add Groupings

➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > ” to enter the Groups page.



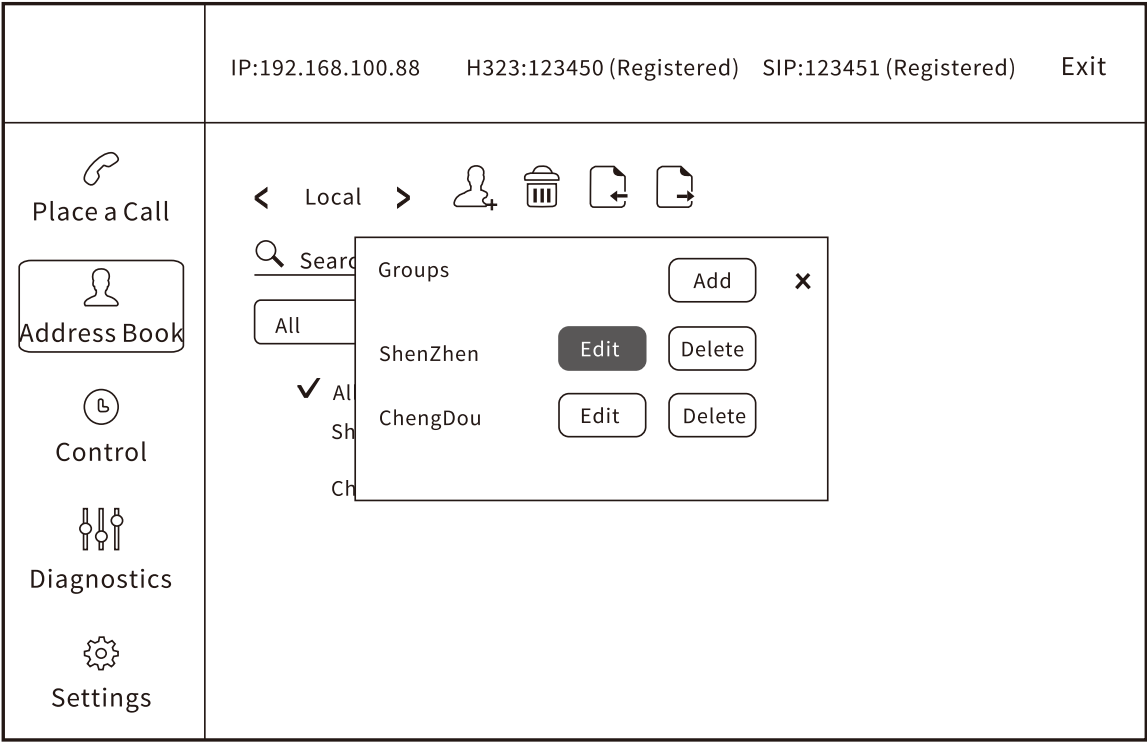
**Step 2** Select “Add” to create a new grouping.

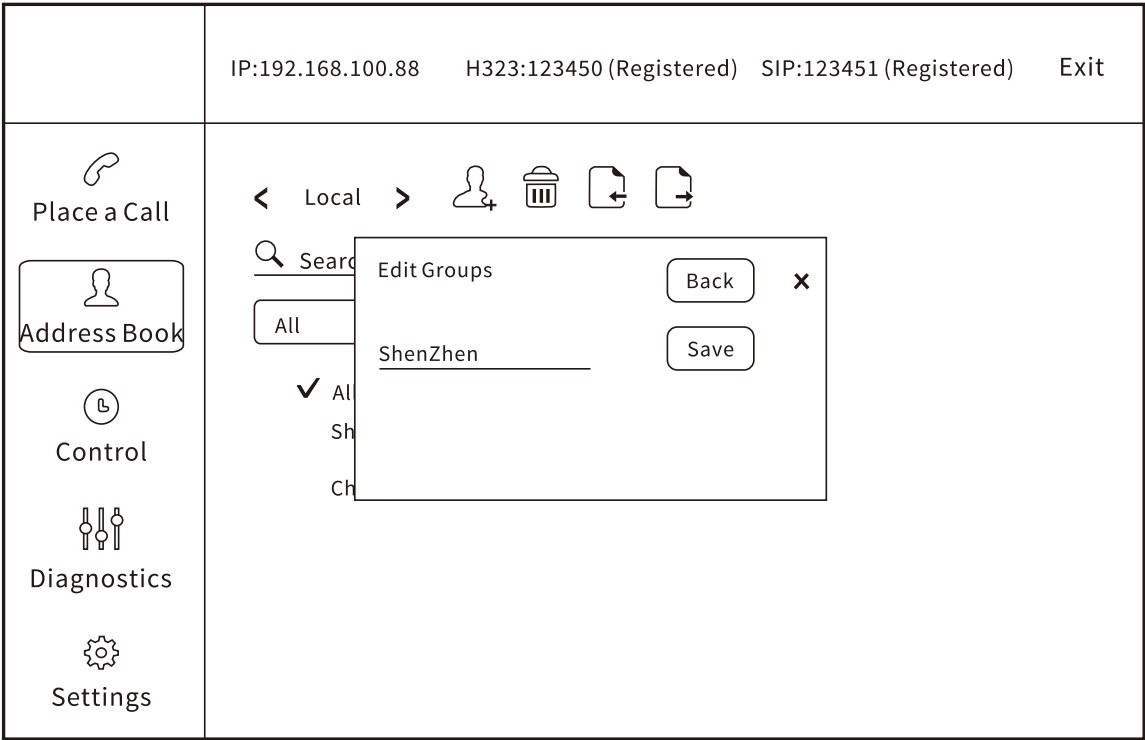
**Step 3** Select “Save”.

3.5.3.2 Edit Grouping

➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > > Edit” to enter the Edit Groups page.



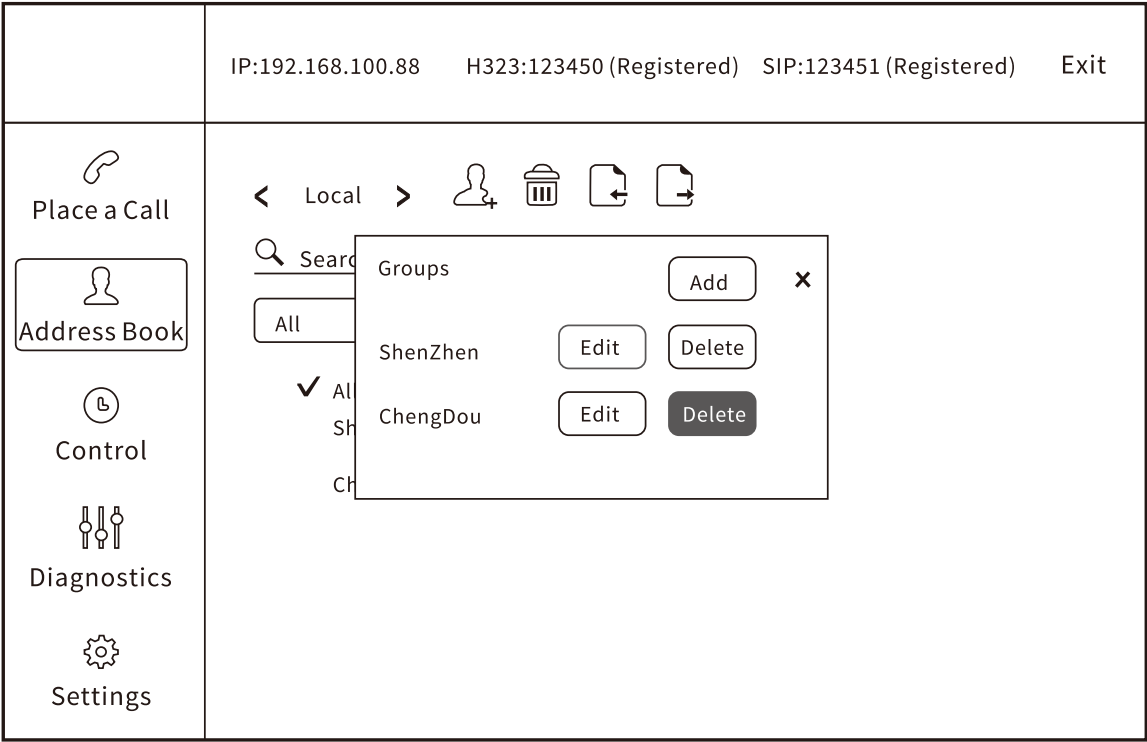


**Step 2** Select “Save”.

### 3.5.3.3 Delete Grouping

➤ **Operating Steps**

**Step 1** Enter the WEB configuration page, select “ >  > Delete” to delete the group directly.

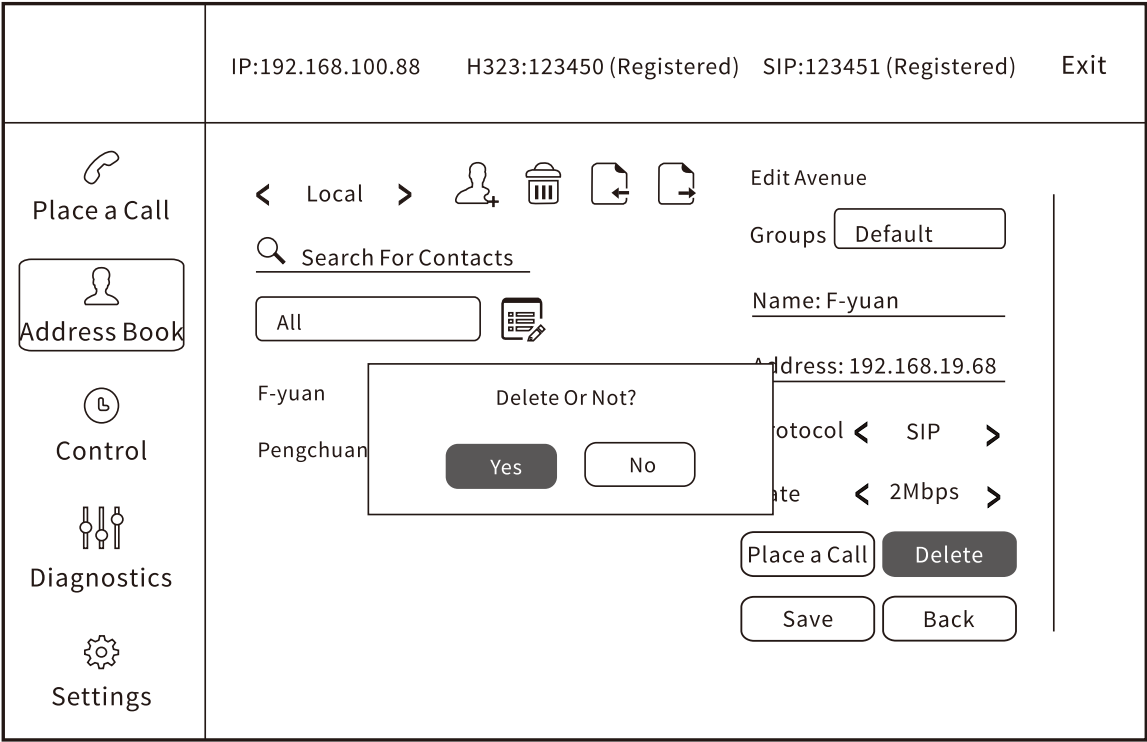


### 3.5.4 Delete Address

#### 3.5.4.1 Delete One by One

➤ **Operating Steps**

- Step 1** Enter the WEB configuration page, select “”.
- Step 2** Move the cursor to select the venue to delete, select “Delete” to pop-up “Delete or Not?” dialog box.

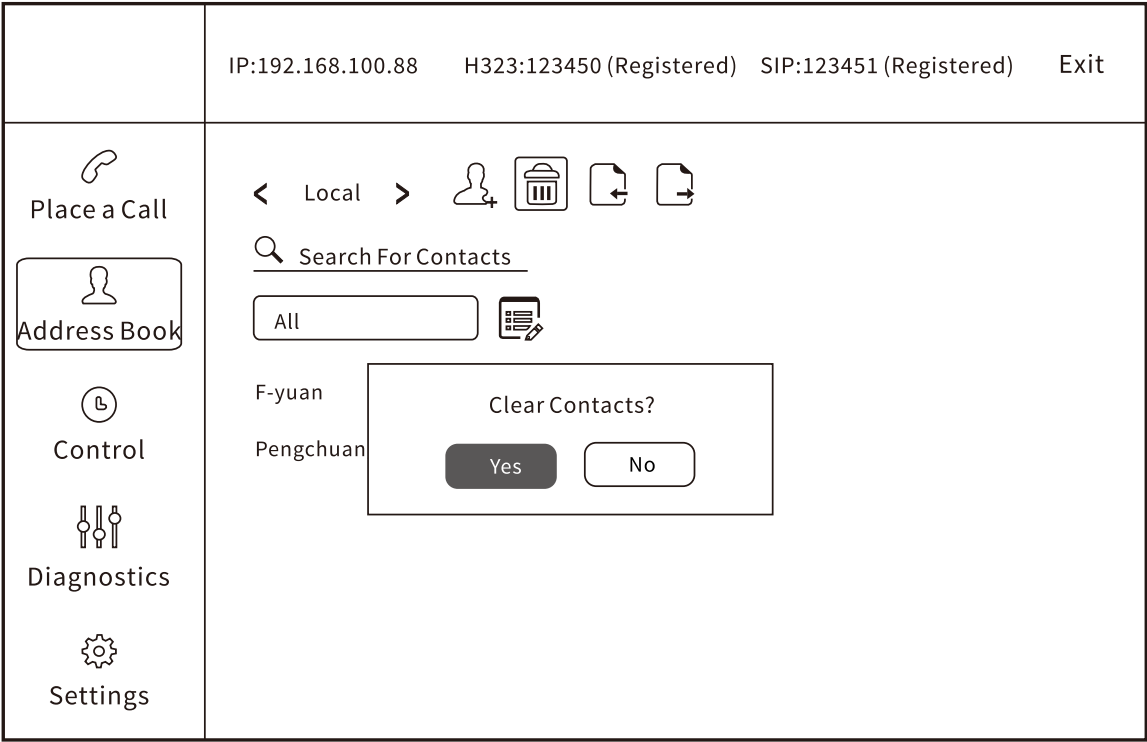


**Step 3** Select “Yes” to delete the address.

### 3.5.4.2 Delete All

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > ” to pop-up “Clear Contacts?” dialog box.



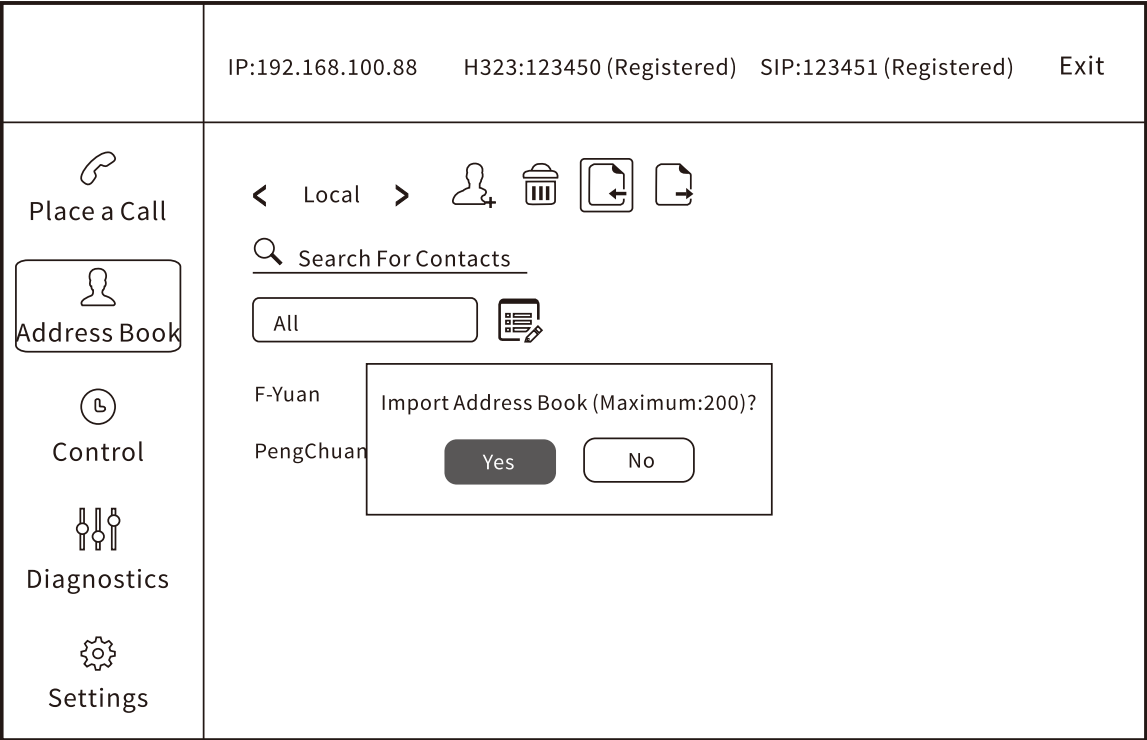
**Step 2** Select “Yes” to clear the address book venue information.

3.5.5 Import Address Book

The terminal supports batch import of address books.

➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > ” to pop-up the “Import Address Book (Maximum)?” dialog box.



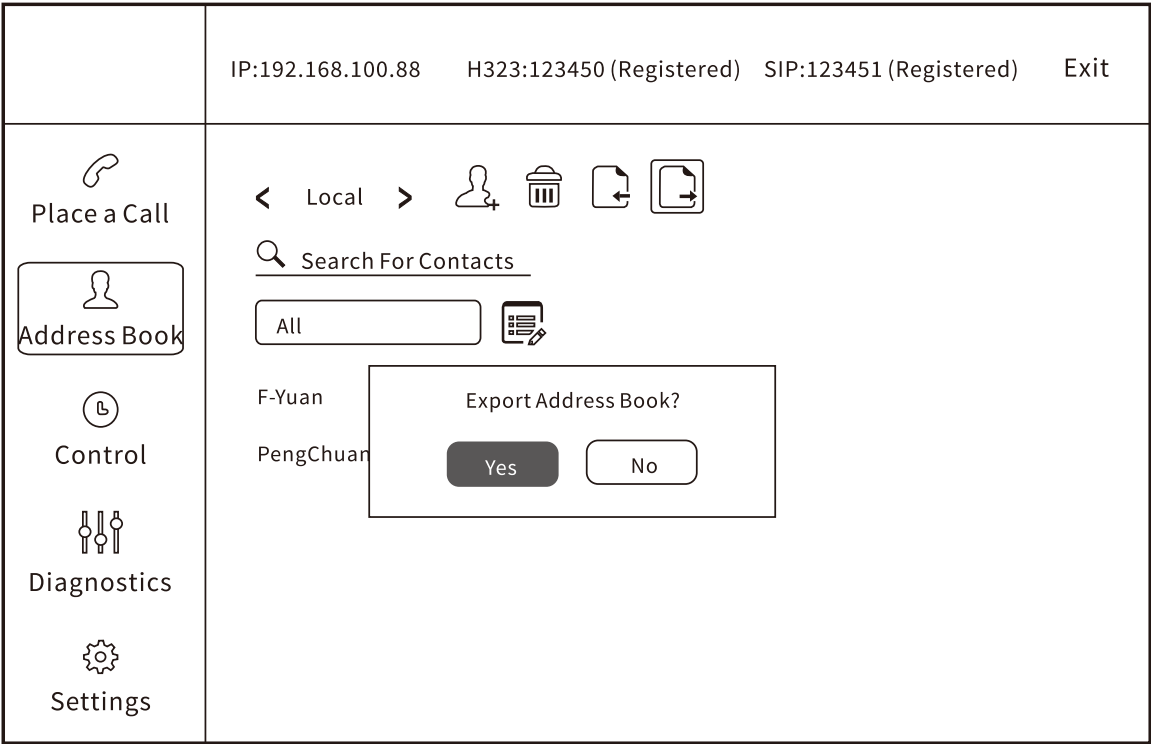
**Step 2** Select “Yes” to confirm (follow the page steps).

3.5.6 Export Address Book

The terminal supports batch export of address books.

➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > ” to pop-up the “Export Address Book?” dialog box.



**Step 2** Select “Yes” to confirm (follow the page steps).

## 3.6 Control

On the control menu page, select and configure the second video, video camera control, recording control, video source and other parameters.

### 3.6.1 Presentation

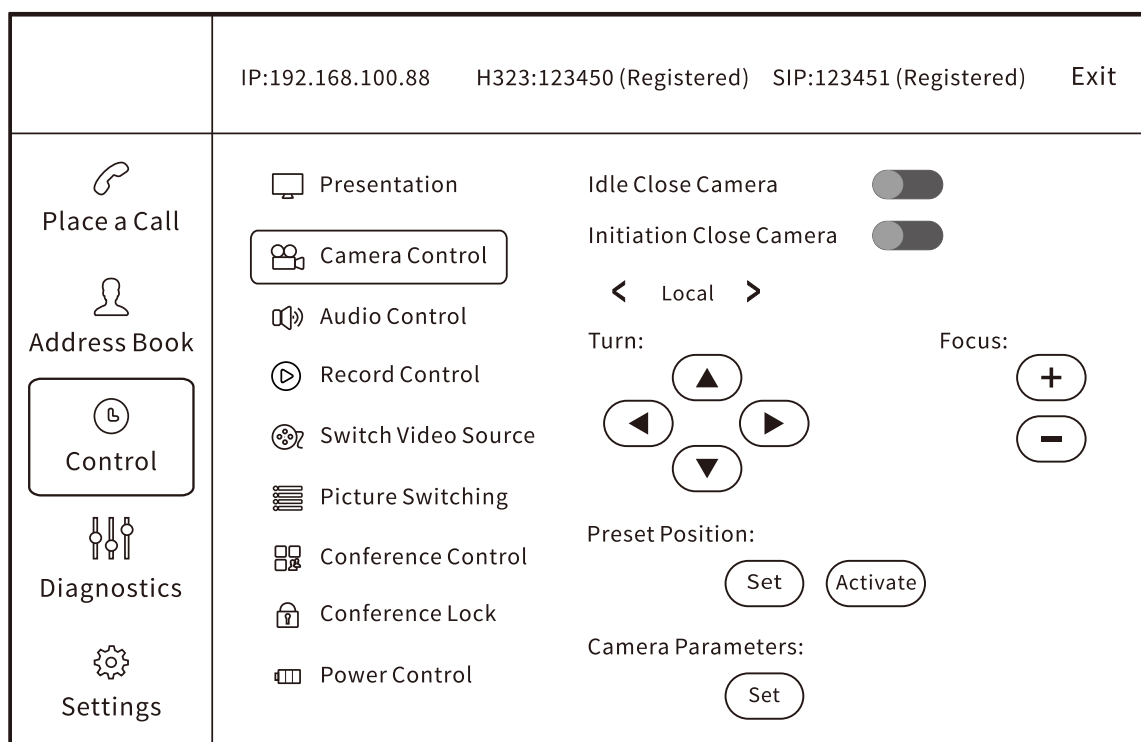
Control the secondary video stream, select whether to enable Presentation or Presentation Preview.

### 3.6.2 Camera Control

On the camera control page, you can perform PTZ (Pan/Tilt/Zoom) control for local or remote cameras, set preset positions, and do other operations.

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Camera Control”.



**Step 2** For the camera control operation, please refer to the following table:

| Parameter Option        | Parameter Declaration                    |
|-------------------------|------------------------------------------|
| Idle Close Camera       | Enable/Disable idle close camera.        |
| Initiation Close Camera | Enable/Disable initiation close camera.  |
| Local/Remote            | Switch between local and remote cameras. |

| Parameter Option  | Parameter Declaration                                                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Directions        | <p>▲: Turning the camera upward.</p> <p>►: Turning the camera to the right.</p> <p>▼: Turning the camera downward.</p> <p>◄: Turning the camera to the left.</p> |
| Focus             | Click “+” repeatedly to zoom in the image.                                                                                                                       |
|                   | Click “-” repeatedly to zoom out the image.                                                                                                                      |
| Preset Position   | Set: Set camera preset positions (1~9).                                                                                                                          |
|                   | Activate: Call the camera to move to the preset position.                                                                                                        |
| Camera Parameters | Images: Configure image Contrast, Brightness, Aperture Mode, and Aperture Value.                                                                                 |
|                   | Backlight setting: Select whether to enable the Backlight Compensation.                                                                                          |
|                   | Flicker mode: Off, 50Hz and 60Hz.                                                                                                                                |
|                   | Others: Select whether to enable the Flip Vertical and Mirroring.                                                                                                |

### 3.6.3 Audio Control

- Select whether to enable Input Mute and Output Mute.
- Configure the audio input/output digital value.

### 3.6.4 Record Control

- Select to enable or disable Start Remote Record, Start RTMP, or Start USB Record.
- Select “Clear” to delete all files in the USB recording local file list.

### 3.6.5 Switch Video Source

- Select the main video source: HDMI1, HDMI2, HDMI3, NET VIDEO.
- Select the secondary video source: HDMI1, HDMI2, NET VIDEO1.

### 3.6.6 Picture Switching

Switch the video screen: Configure HDMI-1 layout, HDMI-2 layout, HDMI-3 layout and Compose layout.

### **3.6.7 Conference Control**

During the meeting, select and bring up the chair control window to perform chair control operations.

### **3.6.8 Conference Lock**

Control meeting lock, select whether to enable the meeting lock function. The terminal will not be able to create or receive meetings once enabled.

### **3.6.9 Power Control**

Control terminal shutdown, restart, or standby/wake-up operations.

## 3.7 Diagnostics

### 3.7.1 Call Information

After the meeting begins, enter the WEB configuration page and select “ > Call Information” to know the quality of the meeting in real time (please refer to the following table for parameters).

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                           |                                                                                                                                                        |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                           |                                                                                                                                                        |
| <br>Place a Call<br><br><br>Address Book<br><br><br>Control<br><br><br>Diagnostics<br><br><br>Settings | <div>  Call Information           </div> <div>  Near Audio Loopback           </div> <div>  Video Intra Update           </div> <div>  Volume Information           </div> <div>  Video Input           </div> <div>  Packet Interception...           </div> <div>  Network Test           </div> <div>  System Information           </div> <div>  Log Information           </div> | Terminal Name : T1<br>Encrypt or Not<br>Call Bandwidth(Kb...<br>Audio Protocol<br>Audio Rate(Kbps)<br>Primary Video Ban...<br>Primary Video Rat...<br>Primary Video Pro...<br>Primary Video Res...<br>Primary Video Fra...<br>Presentation Ban...<br>Presentation Rate...<br>Presentation Pro...<br>Presentation Res...<br>Presentation Fram...<br>Jitter(Ms)<br>Packet Loss Rate | Send<br>AES 128<br>1920<br>G.722.1C 48K<br>47<br>1872<br>1080<br>H264HP<br>1920 x 1080<br>30<br>0<br>0<br>Unknown<br>0 x 0<br>0<br>8<br>0 | Receive<br>AES 128<br>1920<br>G.722.1C 48K<br>48<br>1872<br>1661<br>H264HP<br>1920 x 1080<br>30<br>640<br>75<br>H264HP<br>1920 x 1080<br>30<br>10<br>0 |

| Parameter                      | Parameter Declaration                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------|
| Encrypt or Not                 | Meeting encryption status.                                                             |
| Call Bandwidth (kbps)          | The actual call bandwidth after the negotiation.                                       |
| Audio Protocol                 | Capability is negotiated after the actual audio protocol.                              |
| Audio Rate (kbps)              | The real-time rate of the audio value will change dynamically in real-time.            |
| Primary Video Bandwidth (kbps) | The bandwidth allocated to the main video.                                             |
| Primary Video Rate (kbps)      | The real-time rate of the main video, this value will change dynamically in real time. |
| Primary Video Protocol         | Capability is negotiated after the actual master video protocol.                       |
| Primary Video Resolution       | Main video at the resolution of the current session.                                   |

| Parameter                      | Parameter Declaration                                                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Primary Video Frame Rate (fps) | The number of frames sent or received for the primary video per second, depending on the dynamics of the current network environment.   |
| Presentation Bandwidth (kbps)  | Bandwidth allocated to the secondary video.                                                                                             |
| Presentation Rate (kbps)       | The real-time rate of the secondary video, this value will change dynamically in real time.                                             |
| Presentation Protocol          | Capability negotiation after the actual supplementary video agreement.                                                                  |
| Presentation Resolution        | Secondary video at the resolution of the current session.                                                                               |
| Presentation Frame Rate (fps)  | The number of frames sent or received per second for the secondary video, depending on the dynamics of the current network environment. |
| Jitter (ms)                    | The degree of variation in the network delay.                                                                                           |
| Packet Loss Rate               | Network packet loss is caused by network instability.                                                                                   |

### 3.7.2 Near Audio Loopback

After enabling “Near Audio Loopback Test,” you can output the local audio input to the local audio.

### 3.7.3 Video Refreshing

Click “Video Refreshing” to update the current video encoding data.

### 3.7.4 Volume Information

Check whether the audio input and output of the terminal are normal.

### 3.7.5 Video Input

Displays the video input resolution for HDMI1, HDMI2, HDMI3, NET VIDEO. When there is no external video input, “XXX: No input” is displayed.

### 3.7.6 Packet Interception Function

After configuring TCP, UDP, or TCP/UDP protocols, select “Start” to activate the packet interception.

### **3.7.7 Network Test**

Supports network testing via Gateway, DNS, IP, IP v 6, GK address, or SIP proxy server.

### **3.7.8 System Information**

Displays the Serial Number, MAC Address, System Version, Terminal Version, Terminal Model, and Verification Code of the terminal.

### **3.7.9 Log Information**

- Select “Download Log” to download the log information to computer.
- Select “Clear Log” to clear the log information.

### 3.8 Settings

### 3.8.1 Network

Configure the terminal's network settings according to the network deployment to enable normal communication between the terminal and other devices.

### 3.8.1.1 Network Setting

Before using Ethernet for video communication, you must first configure the Ethernet parameters of the terminal, such as the IP address, subnet mask, and gateway address.

## ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Network > IP”.

|                                                                                                               |                                                                                                                 |                                                                                                                                                                                                                                                                                           |                 |
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|                                                                                                               | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                |                                                                                                                                                                                                                                                                                           |                 |
| <div>Place a Call</div> <div>Address Book</div> <div>Control</div> <div>Diagnostics</div> <div>Settings</div> | <div>Network</div> <div>IP</div> <div>Firewall</div> <div>Service Quality</div> <div>IPv6</div> <div>SNMP</div> | <div>Work Mode: &lt; Auto &gt;</div> <div>Network Port Speed: 1000M Full Duplex</div> <div>Connection Type: &lt; Static IP &gt;</div> <div>IP Address: 192.168.100.88</div> <div>Netmask: 255.255.255.0</div> <div>Gateway:192.168.100.254</div> <div>DNS1 Address: 114.114.114.114</div> | <div>Save</div> |
|                                                                                                               | <div>Account</div> <div>Call</div> <div>Audio</div> <div>Video</div>                                            |                                                                                                                                                                                                                                                                                           |                 |

**Step 2** Configure the “IP” parameters, which are shown in the following table.

**Step 3** Select “Save”.

| Parameter | Parameter Declaration                                                                             | Parameter Setting |
|-----------|---------------------------------------------------------------------------------------------------|-------------------|
| Work Mode | Configure the network work mode: automatic, 10M full duplex, 100M full duplex, 1000M full duplex. | Default: Auto     |

| Parameter       | Parameter Declaration                                                                                                                                                                                                                                                                                                                                                   | Parameter Setting                 |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Connection Type | Configure the network connection type: <ul style="list-style-type: none"> <li>● Automatic IP acquisition: The terminal automatically obtains the IP address through the DHCP server.</li> <li>● Static IP: The IP address of terminal is assigned by the network administrator. You need to configure the IP address, subnet mask, gateway, and DNS address.</li> </ul> | Default: Automatic IP acquisition |
| IP Address      | Configure the IP address of this terminal.                                                                                                                                                                                                                                                                                                                              | Default: Auto obtain              |
| Netmask         | Configure the subnet mask of this terminal.                                                                                                                                                                                                                                                                                                                             | Default: Auto obtain              |
| Gateway         | Configure the gateway address corresponding to this terminal's IP.                                                                                                                                                                                                                                                                                                      | Default: Auto obtain              |
| DNS Address     | After the IP address of the DNS server is configured, the domain name can be used for the address of the GK server and the SIP server. The DNS server will resolve the IP address of the GK server and the SIP server according to the domain name.                                                                                                                     | Default: Auto obtain              |

### 3.8.1.2 Firewall

Configure firewall parameters for the video conferencing system to ensure smooth passage through network security systems.

Note: Network Address Translation (NAT) technology assigns a dedicated internal IP address to a device within an internal network while also using an external IP address to enable communication with other devices on external networks. If the LAN uses NAT technology, the NAT public IP address must be configured on the terminal.

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Network > Firewall”.

|                                                                                                               |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |  |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--|
|                                                                                                               | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |  |
| <div>Place a Call</div> <div>Address Book</div> <div>Control</div> <div>Diagnostics</div> <div>Settings</div> | <div>Network</div> <div>IP</div> <div>Firewall</div> <div>Service Quality</div> <div>IPv6</div> <div>SNMP</div> <div>Account</div> <div>Call</div> <div>Audio</div> <div>Video</div> | <div>TCP Port Range: 30000 To 30100</div> <div>UDP Port Ranger: 30000 To 30100</div> <div>NAT Keep Alive Time: - 20 Seconds +</div> <div> <input checked="" type="checkbox"/> Enable H.460 for NAT traversal of H.323 calls         </div> <div> <input type="checkbox"/> Enable static NAT         </div> <div> <input checked="" type="checkbox"/> Enable UDP hole punching         </div> <div>Save</div> <div>Restore Defaults</div> | <div>↑</div> <div>↓</div> |  |

**Step 2** Configure the “Firewall” parameters, which are shown in the following table.

**Step 3** Select “Save”.

| Parameter                                     | Parameter Declaration                                                                                                                                                                    | Parameter Setting             |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| TCP Port Range                                | The TCP communication port used by the local end to receive data packets during communication with the remote end.                                                                       | Default Range:<br>30000~30100 |
| UDP Port Range                                | The UDP communication port used by the local end to receive data packets during communication with the remote end.                                                                       | Default Range:<br>30000~30100 |
| NAT Keep Alive Time                           | To prevent network devices from resetting TCP connections during extended periods without packets, terminals must periodically send keepalive packets when no data is being transmitted. | Default: 20 seconds           |
| Enable H.460 For NAT Traversal of H.323 Calls | When this feature is enabled, terminals will use the H460 protocol for traversal when identified as private network.                                                                     | Default: Enabled              |

| Parameter                  | Parameter Declaration                                                                                                                                                                                                                                                                                             | Parameter Setting |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Enable Static NAT          | After enabling this feature, terminals within the private network will be treated as public network terminals. After selecting enable Static NAT, enter the public IP address of the NAT device in the “Public IP” input box, select the “Static NAT Type” and choose whether to enable “Auto Acquire Public IP”. | Default: Disabled |
| Enable UDP For Punch Holes | At the media reception port, periodically send the empty UDP package to traverse NAT.                                                                                                                                                                                                                             | Default: Enabled  |

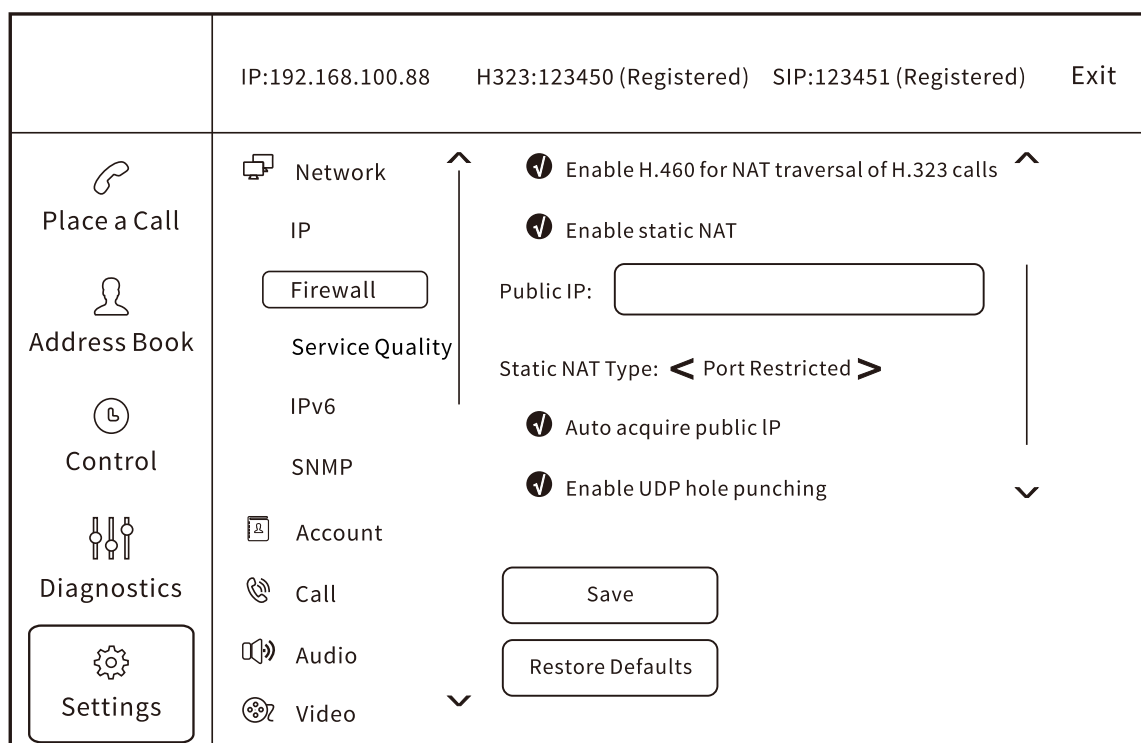
When selecting “Enable Static NAT”, you need to set the router simultaneously.

### ➤ Operating Steps

**Step 1** Disable the ALG in the router.

**Step 2** Configure the router to expose the terminal to the external network and map the TCP and UDP port ranges to the router.

**Step 3** Enter the Settings menu page and select “Networks > Firewall > Enable Static NAT”.



**Step 4** Enter the IP address of the router WAN port in the “Public IP” input box.

**Step 5** Select the static NAT type.

**Step 6** Select whether to enable “Auto Acquire Public IP” access.

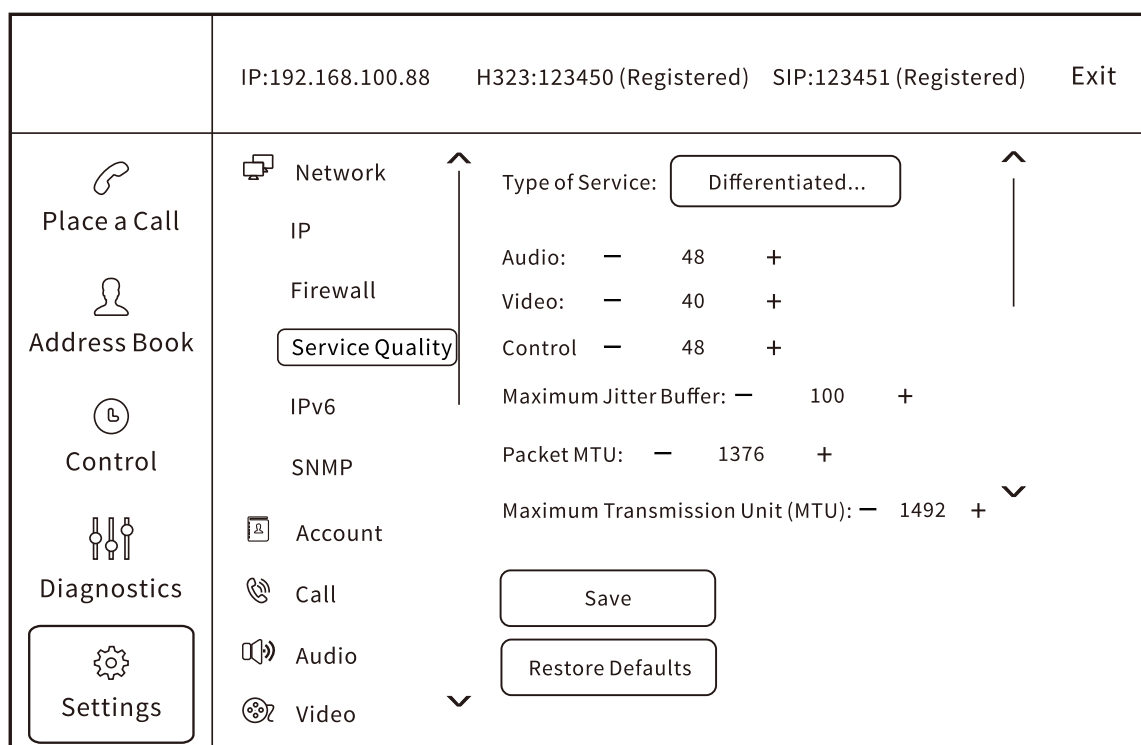
**Step 7** Select “Save”.

### 3.8.1.3 Service Quality

Configure the Type of Service and maximum jitter buffer, select whether to enable media Optimization and others.

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Network > Service Quality”.



**Step 2** Configure the “Service Quality” parameters, which are shown in the following table.

**Step 3** Select “Save”.

| Parameter                 | Parameter Declaration                                          | Parameter Setting                     |
|---------------------------|----------------------------------------------------------------|---------------------------------------|
| Type of Service           | Select the service type: distinguish the service, IP priority. | Default: Distinguish Between Services |
| Audio                     | Configure the audio value.                                     | Default: 48                           |
| Video                     | Configure the video value.                                     | Default: 40                           |
| Control                   | Configure the control value.                                   | Default: 48                           |
| Maximum Jitter Buffer     | Configure the maximum jitter buffer time value                 | Default: 100                          |
| Packet MTU                | Configure the packet MTU value.                                | Default: 1376                         |
| Maximum Transmission Unit | Configure the maximum transmission unit (MTU) value.           | Default: 1492                         |

| Parameter                             | Parameter Declaration                                        | Parameter Setting |
|---------------------------------------|--------------------------------------------------------------|-------------------|
| Enable Media Optimization             | Select whether to enable media optimization.                 | Default: Disabled |
| Enable RTP Packet Loss Retransmission | Select whether to enable RTP packet loss and retransmission. | Default: Disabled |
| Enable RTP Auto Adaptive Rate         | Select Enable or Disable Start Auto Lift.                    | Default: Enabled  |

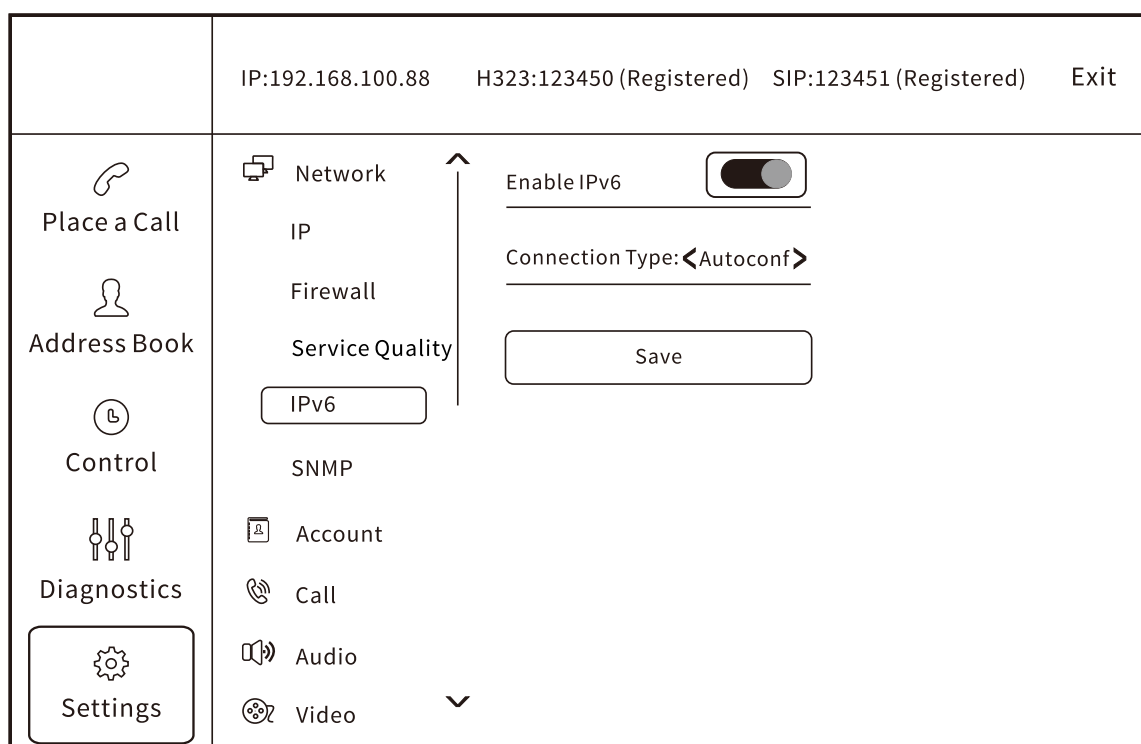
### 3.8.1.4 IPv6

Enable IPv6, select Autoconf (Auto configuration), DHCP or static IP.

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Network > IPv6”.

**Step 2** Enable “Enable IPv6” and configure the connection type (when selecting the static IP, you need to configure the IP address, Subnet prefix length, Gateway Address, DNS Address of the terminal).



**Step 3** Select “Save”.

### 3.8.1.5 SNMP

Enable SNMP, select SNMP Version, and configure NMS Address, NMS TRAP port, contacts and others.

### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select the “ > Networks > SNMP”.

**Step 2** Select “Enable SNMP”.

|                                                                                                               |                                                                                                                 |                                                                                                                                                                                                                                                                                                      |                                                                      |
|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
|                                                                                                               | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                |                                                                                                                                                                                                                                                                                                      |                                                                      |
| <div>Place a Call</div> <div>Address Book</div> <div>Control</div> <div>Diagnostics</div> <div>Settings</div> | <div>Network</div> <div>IP</div> <div>Firewall</div> <div>Service Quality</div> <div>IPv6</div> <div>SNMP</div> | <div>Enable SNMP</div> <div>SNMP Version: &lt; V1 &gt;</div> <div>NMS Address: <input type="text"/></div> <div>NMS Trap Port: <input type="text" value="162"/></div> <div>Community: <input type="text"/></div> <div>Contact: <input type="text"/></div> <div>Save</div> <div>Restore defaults</div> | <div>Account</div> <div>Call</div> <div>Audio</div> <div>Video</div> |

**Step 3** Select the SNMP Version, and configure the NMS address, NMS Trap Port, Community, Contact, Location, System Name and System Description.

**Step 4** Select “Save”.

## 3.8.2 Account

Configure the H323 Account, SIP Account, Display Name and other parameters.

### 3.8.2.1 Display Name

Configure the terminal name, H.323 displays name encoding as and H.323 displays name decoding as.

### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Account > Display Name”.

|                                                                    |                                                                                                                                     |                                                                                                                                                                                    |  |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                    | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                    |                                                                                                                                                                                    |  |
| Place a Call<br>Address Book<br>Control<br>Diagnostics<br>Settings | Network<br>Account<br><div>Display Name</div> H323 Account<br>SIP Account<br>Mqtt Configur..<br>Call<br>Audio<br>Record<br>Security | Terminal Name: <input type="text"/><br>H.323 Displays Name Encoding As: < Unicode ><br>H.323 Displays Name Decoding As: < Auto ><br><div>Save</div><br><div>Restore Defaults</div> |  |

**Step 2** Configure the “Display Name” parameters, which are shown in the following table.

**Step 3** Select “Save”.

| Parameter                      | Parameter Declaration                                              | Parameter Setting |
|--------------------------------|--------------------------------------------------------------------|-------------------|
| Terminal Name                  | Configure the terminal display name.                               | Default: Empty    |
| H.323 Display Name Encoding As | Configure H.323 displays the name encoding as: Unicode, GBK.       | Default: Unicode  |
| H.323 Display Name Decoding As | Configure H.323 displays the name decoding as: Auto, Unicode, GBK. | Default: Auto     |

### 3.8.2.2 H323 Account

When using the H.323 protocol for video communication, you must configure H.323 account information such as GK Address, Registered Name etc.

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Account > H323 Account”.

|                                                                                                               |                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                              |  |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                               | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                                               |                                                                                                                                                                                                                                                                                                                              |  |
| <div>Place a Call</div> <div>Address Book</div> <div>Control</div> <div>Diagnostics</div> <div>Settings</div> | <div>Network</div> <div>Account</div> <div>Display Name</div> <div>H323 Account</div> <div>SIP Account</div> <div>Mqtt Configur..</div> <div>Call</div> <div>Audio</div> <div>Record</div> <div>Security</div> | <div>Enable H.323 <input checked="" type="checkbox"/></div> <div>Way of Collocation: &lt; Manual &gt;</div> <div>Gatekeeper Address: 218 28 249 132</div> <div>*Registered Name: 123450</div> <div>Terminal Number:</div> <div>Username: 123450</div> <div>Password: *****</div> <div>(Required Field)</div> <div>Save</div> |  |

**Step 2** Configure the “H323 Account” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter          | Parameter Declaration                                                                                                                                                   | Parameter Setting                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Enable H.323       | Select whether to enable H.323.                                                                                                                                         | Default: Enabled                                                        |
| Way of Collection  | Select H.323 Account configuration mode: Manual, Unregister.                                                                                                            | Default: Manual                                                         |
| Gatekeeper Address | Set the IP address or domain name for the GK server.<br>When setting a domain name, you must enable the DNS server and configure the correct mapping on the DNS server. | No default value (Please consult your server administrator for details) |
| Registered Name    | The name registered by the terminal on the GK.<br>After the terminal registers with the GK server, the GK server identifies the terminal by this name.                  | No default value (Please consult your server administrator for details) |
| Terminal Number    | The conference number corresponds to the terminal.<br>After the terminal registers to the GK server, other terminals can use the number to call the terminal.           | No default value (Please consult your server administrator for details) |
| Username           | Username of the terminal registered on GK.                                                                                                                              | No default value (Please consult your server administrator for details) |

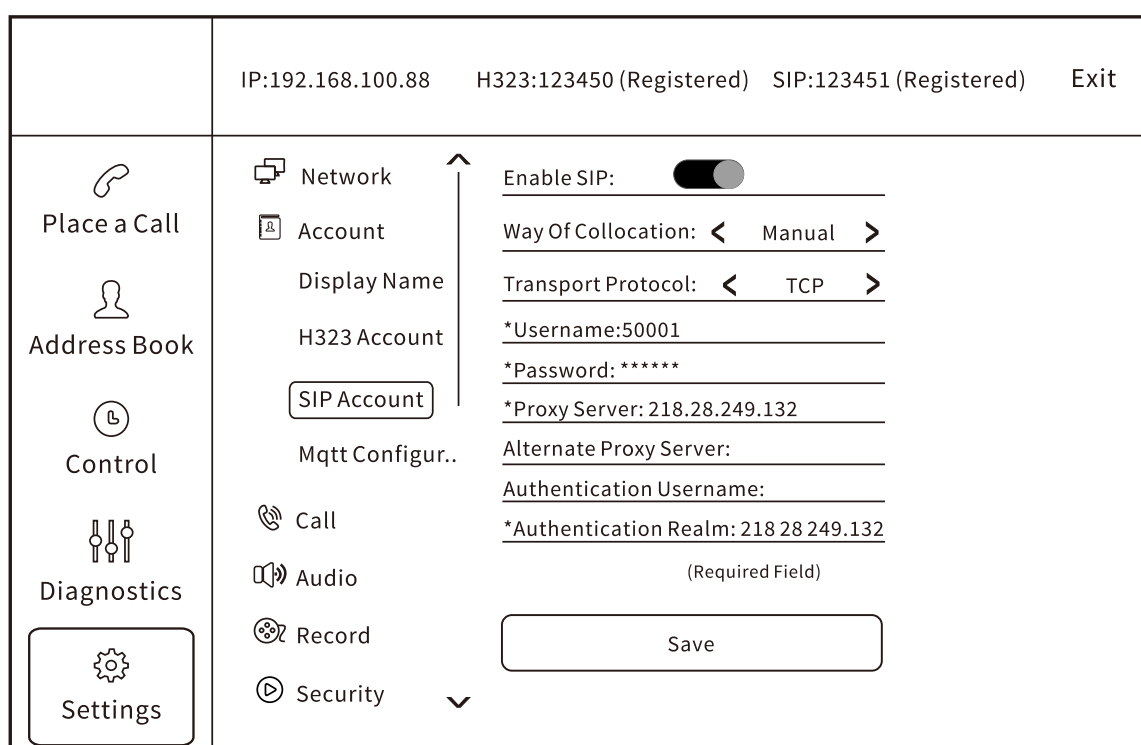
| Parameter | Parameter Declaration                                                                                                                | Parameter Setting                                                       |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Password  | The password registered by the terminal with the GK server is used for the GK server to authenticate the legitimacy of the terminal. | No default value (Please consult your server administrator for details) |

### 3.8.2.3 SIP Account

When using the SIP protocol for video communication, you must configure the SIP account information such as the Username, Password etc.

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Account > SIP Account”.



**Step 2** Configure the “SIP Account” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter          | Parameter Declaration                                             | Parameter Setting |
|--------------------|-------------------------------------------------------------------|-------------------|
| Enable SIP         | Select whether to enable SIP.                                     | Default: Enabled  |
| Way of Collocation | Select the way of collocation of SIP account: Manual, Unregister. | Default: Manual   |
| Transport Protocol | Select transport protocol: TCP, UDP, TLS, Auto.                   | Default: Auto     |

| Parameter               | Parameter Declaration                                                                                                                                                                                                                                                        | Parameter Setting                                                       |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Username                | Enter the username used to register with the SIP server.<br>After the terminal registers with the SIP server, the SIP server identifies the terminal by this name.                                                                                                           | No default value (Please consult your server administrator for details) |
| Password                | Enter the password for registering the SIP server on the terminal, which is used to authenticate the terminal's legitimacy with the SIP server. During SIP server authentication, the password configured on the terminal must match the password pre-set on the SIP server. | No default value (Please consult your server administrator for details) |
| Proxy Server            | Enter the IP address or domain name for the SIP proxy server. Enable this option when the user's network environment requires a proxy server.                                                                                                                                | No default value (Please consult your server administrator for details) |
| Alternate Proxy Server  | Enter the IP address or domain name for the SIP alternate proxy server.                                                                                                                                                                                                      | No default value (Please consult your server administrator for details) |
| Authentication Username | Enter the username used for the authentication.                                                                                                                                                                                                                              | No default value (Please consult your server administrator for details) |
| Authentication Realm    | Enter the domain name used for authentication.                                                                                                                                                                                                                               | No default value (Please consult your server administrator for details) |

### 3.8.2.4 Mqtt Configuration

After configuring the MQTT connection to the device management platform, the terminal will automatically connect to the platform upon startup. This enables the platform to monitor the terminal's status and view basic information, as well as perform remote operations on the terminal.

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Account > Mqtt Configuration”.

|                                                                    |                                                                                             |                                                                                                                                                                                                            |                          |  |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|
|                                                                    | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit            |                                                                                                                                                                                                            |                          |  |
| Place a Call<br>Address Book<br>Control<br>Diagnostics<br>Settings | Network<br>Account<br>Display Name<br>H323 Account<br>SIP Account<br><b>Mqtt Configur..</b> | Mqtt Url: <input type="text" value="tcp://XXX.XXX.XX.XXX:1883"/><br>Mqtt Username: <input type="text" value="XXXXXX"/><br>Mqtt Password: <input type="password" value="•••••"/><br>Mqtt Type: < MQTT_VHD > | Save<br>Restore Defaults |  |
|                                                                    | Call<br>Audio<br>Record<br>Security                                                         |                                                                                                                                                                                                            |                          |  |
|                                                                    |                                                                                             |                                                                                                                                                                                                            |                          |  |
|                                                                    |                                                                                             |                                                                                                                                                                                                            |                          |  |
|                                                                    |                                                                                             |                                                                                                                                                                                                            |                          |  |

**Step 2** Configure the Mqtt Url, Mqtt Username and Mqtt Password, select the Mqtt Type.

**Step 3** Select “Save”.

### 3.8.3 Call

Configure the call Options and the EMCU parameters.

#### 3.8.3.1 Call Options

Configure whether to enable auto answer, refuse the incoming call automatically when the passport does not match, grab presentation etc.

##### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Call > Call Options”.

|                                                                    |                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                 |      |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|                                                                    | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                       |                                                                                                                                                                                                                                                                                                                                                                                                 |      |
| Place a Call<br>Address Book<br>Control<br>Diagnostics<br>Settings | Network<br>Account<br>Call<br><div>Call Options</div> <div>EMCU</div> Audio<br>Video<br>Record<br>Security<br>Protocol | <input type="radio"/> Auto answer<br><input type="radio"/> Refuse the incoming-call automatically whe...<br><input checked="" type="checkbox"/> Grab presentation<br><input checked="" type="checkbox"/> Enable far camera control<br><input checked="" type="checkbox"/> Enable lookup from DNS SRV record<br><br>Default Call Type: < SIP ><br><div>Save</div><br><div>Restore Defaults</div> | <br> |

**Step 2** Configure the “Call Options” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter                                                               | Parameter Declaration                                                                                                                                                                                                                                                                                                    | Parameter Setting |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Auto Answer                                                             | Enable or disable auto answer: <ul style="list-style-type: none"> <li>● Disable “Auto Answer”: When a call is received, a local pop-up window prompts the user to accept the call.</li> <li>● Enable “Auto Answer”: When the terminal is not in a meeting, all incoming calls will be answered automatically.</li> </ul> | Default: Disabled |
| Refuse The Incoming Call Automatically When The Passport Does Not Match | After enabling this feature, you need to set an “incoming call password.” When a remote end calls the terminal, they need to add the # # * * after the number. The terminal will automatically reject the call if the password is not included or is wrong.                                                              | Default: Disabled |
| Grab Presentation                                                       | After enabling the grab presentation, the dual stream can also be sent at the remote end.                                                                                                                                                                                                                                | Default: Enabled  |
| Enable Far camera Control                                               | When enabled, the terminal will support controlling remote cameras or being remotely controlled.                                                                                                                                                                                                                         | Default: Enabled  |
| Enable Lookup from DNS SRV Record                                       | When enabled, DNS SRV records for the domain will be queried.                                                                                                                                                                                                                                                            | Default: Enabled  |

| Parameter                         | Parameter Declaration                                                                                                                                                                                                                                                                                                             | Parameter Setting   |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Default Call Type                 | Configure terminal's default call type: H.323, SIP, automatic.                                                                                                                                                                                                                                                                    | Default: SIP        |
| Default Call Rate                 | The terminal's default call rate, improper call bandwidth settings may affect video communication quality or result in unsuccessful calls.                                                                                                                                                                                        | Default: 1,920 kbps |
| Maximum Transmission Bandwidth    | The uplink bandwidth limit ensures that regardless of the call rate, the actual transmission rate will never exceed the transmission bandwidth.                                                                                                                                                                                   | Default: 8,000 kbps |
| Maximum Receiving Bandwidth       | The downlink bandwidth limit ensures that regardless of the call rate, the actual reception rate will never exceed the reception bandwidth.                                                                                                                                                                                       | Default: 8,000 kbps |
| Presentation Bandwidth Percentage | When sending a secondary stream, the bandwidth ratio allocated for the secondary stream.                                                                                                                                                                                                                                          | Default: 30%        |
| Primary Video Mode                | <p>Select the appropriate video mode based on the main video protocol:</p> <ul style="list-style-type: none"> <li>● Clear: Prioritize image resolution.</li> <li>● Smooth: Prioritize frame rate.</li> <li>● Extremely smooth: Prioritize the frame rate to reach 60 frames.</li> </ul>                                           | Default: Smooth     |
| Secondary Video Mode              | <p>Select the appropriate video mode based on the secondary video protocol:</p> <ul style="list-style-type: none"> <li>● Smooth: Prioritize frame rate.</li> <li>● Clear: Prioritize image resolution.</li> <li>● Extremely smooth: Prioritize the frame rate to reach 60 frames.</li> <li>● PPT: Prioritize document.</li> </ul> | Default: Smooth     |
| Media Waiting Time                | Configure the media waiting time.                                                                                                                                                                                                                                                                                                 | Default: 60 seconds |
| I Frame Request Filter Time       | Configure the I frame request filter time.                                                                                                                                                                                                                                                                                        | Default: 3 seconds  |
| Interval Time of IDR Frame        | Configure the Send I frame time.                                                                                                                                                                                                                                                                                                  | Default: 0          |

### 3.8.3.2 EMCU

Configure the EMCU authorization and whether to enable the EMCU.



Note

The built-in MCU requires a separate license purchase for authorization and activation.

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Call > EMCU”.

**Step 2** Configure the “EMCU” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter                    | Parameter Declaration                      | Parameter Setting |
|------------------------------|--------------------------------------------|-------------------|
| EMCU Authorization           | Configure the EMCU authorization manually. | Default: Empty    |
| Status of EMCU Authorization | Displays the EMCU authorization status.    | Default: Invalid  |
| Enable EMCU                  | Select whether to enable EMCU features.    | Default: Disabled |

### 3.8.4 Audio

Configure parameter information such as Audio Input, Audio Output, ECHO Elimination, and audio capability etc.

### 3.8.4.1 Audio Input

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Audio > Audio Input”.

|                                                                                                               |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                           |                                             |                           |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------|
|                                                                                                               | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                           |                                             |                           |
| <div>Place a Call</div> <div>Address Book</div> <div>Control</div> <div>Diagnostics</div> <div>Settings</div> | <div>Network</div> <div>Account</div> <div>Call</div> <div>Audio</div> <div>Audio Input</div> <div>Audio Output</div> <div>ECHO Elim...</div> <div>USB Audio</div> <div>Audio Capa...</div> <div>Digital MIC</div> <div>Stereo</div> | <div>Input Volume: — 8 +</div> <div> <input checked="" type="checkbox"/> Enable HDMI-IN-1 Audio 1n         </div> <div>HDMI-IN-1 Gain: — 8 +</div> <div> <input checked="" type="checkbox"/> Enable HDMI-IN-2 Audio 1n         </div> <div>HDMI-IN-2 Gain: — 8 +</div> <div> <input checked="" type="checkbox"/> Enable HDMI-IN-3 Audio 1n         </div> | <div>Save</div> <div>Restore Defaults</div> | <div>↑</div> <div>↓</div> |

**Step 2** Configure the “Audio Input” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter                 | Parameter Declaration                                                                                                                                                                                        | Parameter Setting |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Input Volume              | Configure audio input value.                                                                                                                                                                                 | Default: 8        |
| Enable HDMI-IN-1 Audio In | Enable the HDMI-IN-1 audio in and the “HDMI IN 1” interface on the rear panel of the terminal is correctly connected to the audio input, the remote end can receive the HDMI IN 1 input from the local end.  | Default: Enabled  |
| HDMI-IN-1 Value           | Configure HDMI-IN-1 input value.                                                                                                                                                                             | Default: 8        |
| Enable HDMI-IN-2 Audio In | Enable the HDMI-IN-2 audio in and the “HDMI IN 2” interface on the rear panel of the terminal is correctly connected to the audio input, the remote end can receive the HDMI IN 2 inputs from the local end. | Default: Enabled  |
| HDMI-IN-2 Value           | Configure HDMI-IN-2 input value.                                                                                                                                                                             | Default: 8        |

| Parameter                           | Parameter Declaration                                                                                                                                                                                         | Parameter Setting |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Enable HDMI-IN-3 Audio In           | Enable the HDMI-IN-3 audio in and the “HDMI IN 3” interface on the rear panel of the terminal is correctly connected to the audio input, the remote end can receive the HDMI IN 3 inputs from the local end.  | Default: Enabled  |
| HDMI-IN-3 Value                     | Configure HDMI-IN-3 input value.                                                                                                                                                                              | Default: 8        |
| Enable Cannon-MIC-1 Audio In        | Enable the Cannon-MIC-1 audio in and the “MIC IN 1” interface on the rear panel of the terminal is correctly connected to the audio input, the remote end can receive the MIC IN 1 inputs from the local end. | Default: Enabled  |
| Cannon-MIC1 Digital Value           | Configure Cannon-MIC1 input value.                                                                                                                                                                            | Default: 8        |
| Enable Cannon-MIC-2 Audio In        | Enable the Cannon-MIC-2 audio in and the “MIC IN 2” interface on the rear panel of the terminal is correctly connected to the audio input, the remote end can receive the MIC IN 2 inputs from the local end. | Default: Enabled  |
| Cannon-MIC2 Digital Value           | Configure Cannon-MIC2 input value.                                                                                                                                                                            | Default: 8        |
| Enable RCA Audio In                 | Enable the RCA audio in and the “AUDIO IN” interface on the rear panel of the terminal is correctly connected to the audio input, the remote end can receive the AUDIO IN inputs from the local end.          | Default: Enabled  |
| RCA Input Digital Value             | Configure RCA input value.                                                                                                                                                                                    | Default: 8        |
| Take HDMI IN2 As Presentation Audio | Enable or disable take HDMI IN2 as presentation audio.                                                                                                                                                        | Default: Disabled |
| Mute During Conference              | Enable or disable mute during conference.                                                                                                                                                                     | Default: Disabled |

### 3.8.4.2 Audio Output

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Audio > Audio Output”.

|                                                                                                               |                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |  |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--|
|                                                                                                               | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |  |
| <div>Place a Call</div> <div>Address Book</div> <div>Control</div> <div>Diagnostics</div> <div>Settings</div> | <div>Network</div> <div>Account</div> <div>Call</div> <div>Audio</div> <div>Audio Input</div> <div>Audio Output</div> <div>ECHO Elimi...</div> <div>USB Audio</div> <div>Audio Capa...</div> <div>Digital MIC</div> <div>Stereo</div> | <div>Audio Output Digital Gain: — 8 +</div> <div> <input type="radio"/> Show advanced settings         </div> <div> <input checked="" type="checkbox"/> Output tone         </div> <div>Ring Out Gain: — 8 +</div> <div> <input checked="" type="checkbox"/> Enable HDMI-1 audio out         </div> <div> <input checked="" type="checkbox"/> Enable HDMI-2 audio out         </div> <div>Save</div> <div>Restore Defaults</div> | <div>↑</div> <div>↓</div> |  |

**Step 2** Configure the “Audio Output” parameters, which are shown in the table below.

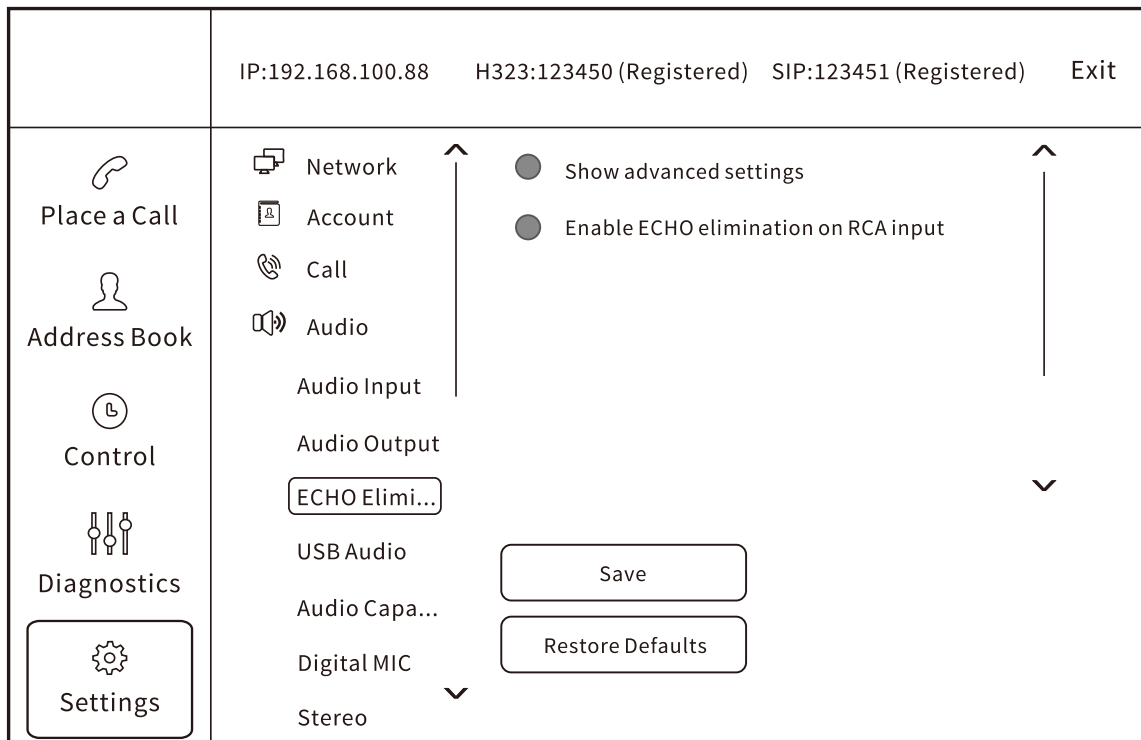
**Step 3** Select “Save”.

| Parameter                  | Parameter Declaration                                                                                      | Parameter Setting |
|----------------------------|------------------------------------------------------------------------------------------------------------|-------------------|
| Audio Output Digital Value | Configure audio output value.                                                                              | Default: 8        |
| Show Advanced Settings     | Enable or disable show advanced settings.                                                                  | Default: Disabled |
| Output Tone                | Enable or disable the output ringtone. When enabled, you can hear the ringtone of the remote call locally. | Default: Enabled  |
| Ring Out Value             | Configure ringtone output value.                                                                           | Default: 8        |
| Enable HDMI-1 Audio Out    | Select whether to enable HDMI-1 audio output.                                                              | Default: Enabled  |
| Enable HDMI-2 Audio Out    | Select whether to enable HDMI-2 audio output.                                                              | Default: Enabled  |
| Enable RCA-1 Audio Out     | Select whether to enable RCA-1 audio output.                                                               | Default: Enabled  |
| Enable RCA-2 Audio Out     | Select whether to enable RCA-2 audio output.                                                               | Default: Enabled  |

### 3.8.4.3 ECHO Elimination

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Audio > ECHO Elimination”.



**Step 2** Configure the “ECHO Elimination” parameters, which are shown in the table below.

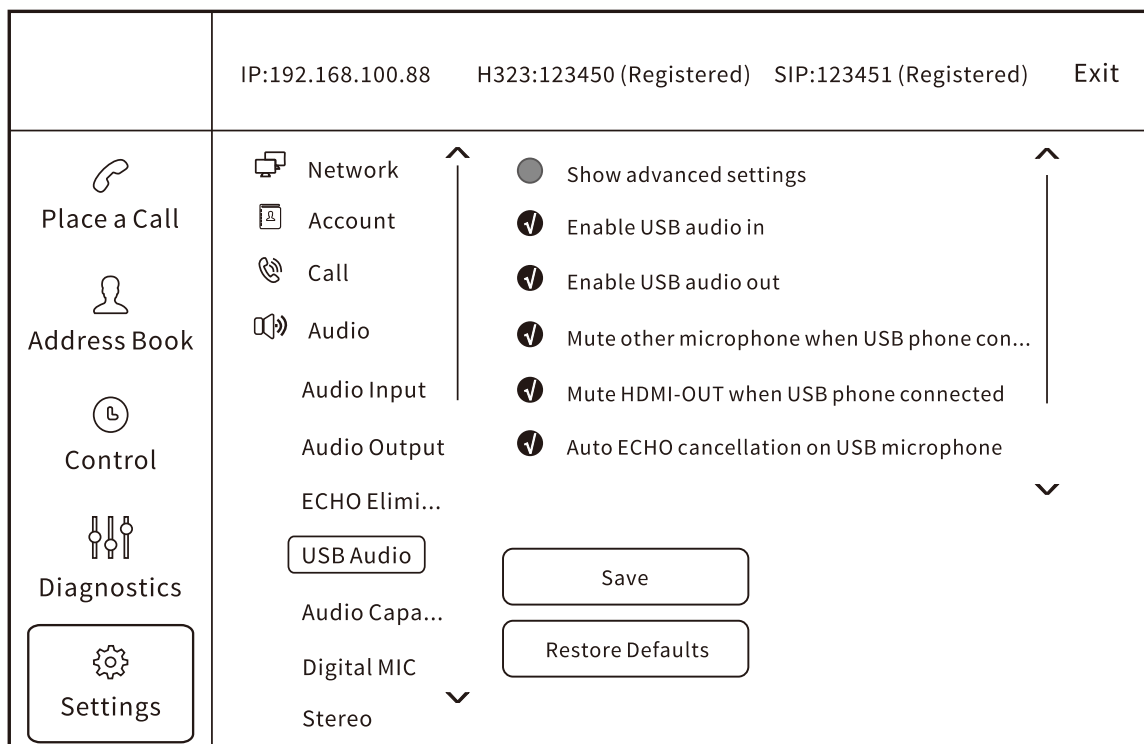
**Step 3** Select “Save”.

| Parameter                            | Parameter Declaration                                                                                                                      | Parameter Setting |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Show Advanced Settings               | Enable or disable show advanced settings.                                                                                                  | Default: Disabled |
| Enable ECHO Elimination on RCA Input | Enable or disable echo elimination on RCA input. When enabled, the terminal will perform echo cancellation processing for RCA input audio. | Default: Disabled |

### 3.8.4.4 USB Audio

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Audio > USB Audio”.



**Step 2** Configure the “USB Audio” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter                                      | Parameter Declaration                                                                                                                                           | Parameter Setting |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Show Advanced Settings                         | Enable or disable show advanced settings.                                                                                                                       | Default: Disabled |
| Enable USB Audio In                            | Select whether to enable USB audio input.                                                                                                                       | Default: Enabled  |
| Enable USB Audio Out                           | Select whether to enable USB audio output.                                                                                                                      | Default: Enabled  |
| Mute Other Microphone When USB Phone Connected | Enable or disable mute other microphones when USB phone connected.                                                                                              | Default: Enabled  |
| Mute HDMI-OUT When USB Phone Connected         | Enable or disable mute HDMI-OUT when USB phone connected.                                                                                                       | Default: Enabled  |
| Auto ECHO Cancellation on USB Microphone       | Enable or disable auto ECHO cancellation on USB microphone.<br>When enabled, the terminal will automatically perform echo cancellation on USB microphone audio. | Default: Enabled  |

### 3.8.4.5 Audio Capabilities

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Audio > Audio Capabilities”.

|                                                                                                               |                                                                                  |              |                             |              |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------|-----------------------------|--------------|
|                                                                                                               | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit |              |                             |              |
| <div>Place a Call</div> <div>Address Book</div> <div>Control</div> <div>Diagnostics</div> <div>Settings</div> | <div>Network</div>                                                               | <div>↑</div> | <div>● AACLD 128K</div>     | <div>↑</div> |
|                                                                                                               | <div>Account</div>                                                               |              | <div>▼ G.722.1C 48K</div>   |              |
|                                                                                                               | <div>Call</div>                                                                  |              | <div>▼ G.722.1C 24K</div>   |              |
|                                                                                                               | <div>Audio</div>                                                                 |              | <div>● AACLD 64K</div>      |              |
|                                                                                                               | <div>Audio Input</div>                                                           |              | <div>● AACLD 56K</div>      |              |
|                                                                                                               | <div>Audio Output</div>                                                          |              | <div>● AACLD 48K</div>      |              |
|                                                                                                               | <div>ECHO Elim...</div>                                                          |              |                             | <div>▼</div> |
|                                                                                                               | <div>USB Audio</div>                                                             |              |                             |              |
|                                                                                                               | <div>Audio Capa...</div>                                                         |              | <div>Save</div>             |              |
|                                                                                                               | <div>Digital MIC</div>                                                           |              | <div>Restore Defaults</div> |              |
|                                                                                                               | <div>Stereo</div>                                                                | <div>▼</div> |                             |              |

- Step 2**   Configure the “Audio Capabilities” parameters, which are shown in the table below.
- Step 3**   Select “Save”.

| Audio Capability                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AACLD 128K, G.722.1C 48K, G.722.1C 24K, AACLD 64K, AACLD 56K, AACLD 48K, Opus 48K, Opus 16K, Opus 8K, SILK 8K, SILK 16K, G.722, G.711 μ -Law, G.711 A-Law, G.726 40K, G.726 32K, G.726 24K, G.729, G.711 μ -Law 384K, G.711 A-Law 384K. |

3.8.4.6   Digital Mic

➤   Operating Steps

- Step 1**   Enter the WEB configuration page, select “⚙️> Audio > Digital Mic”.

|                                                                    |                                                                                  |                                                 |  |  |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------|--|--|
|                                                                    | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit |                                                 |  |  |
| Place a Call<br>Address Book<br>Control<br>Diagnostics<br>Settings | Network                                                                          | <input checked="" type="checkbox"/> Enable      |  |  |
|                                                                    | Account                                                                          | Volume Adjusting: —    8    +                   |  |  |
|                                                                    | Call                                                                             | Auto Gain: —    6    +                          |  |  |
|                                                                    | Audio                                                                            | Noise Intensity Suppression: —    1    +        |  |  |
|                                                                    | Audio Input                                                                      | ECHO Intensity Suppression: —    3    +         |  |  |
|                                                                    | Audio Output                                                                     | Double-talk Detection Level: —    1    +        |  |  |
|                                                                    | ECHO Elimi...                                                                    |                                                 |  |  |
|                                                                    | USB Audio                                                                        | <input type="button" value="Save"/>             |  |  |
|                                                                    | Audio Capa...                                                                    | <input type="button" value="Restore Defaults"/> |  |  |
|                                                                    |                                                                                  | <input type="button" value="Digital MIC"/>      |  |  |
|                                                                    | Stereo                                                                           |                                                 |  |  |

**Step 2** Configure the “Digital Mic” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter                   | Parameter Declaration                                  | Parameter Setting |
|-----------------------------|--------------------------------------------------------|-------------------|
| Enable                      | Select whether to enable the digital mic.              | Default: Enabled  |
| Volume Adjusting            | Configure the digital mic volume value.                | Default: 8        |
| Auto Value                  | Configure the digital mic auto value.                  | Default: 6        |
| Noise Intensity Suppression | Configure the digital mic noise suppression intensity. | Default: 1        |
| ECHO Intensity Suppression  | Configure the digital mic ECHO suppression intensity.  | Default: 3        |
| Double-talk Detection Level | Configure the digital mic double-talk detection level. | Default: 1        |
| RT60                        | Configure the digital mic RT60 value.                  | Default: 400ms    |

### 3.8.4.7 Stereo

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Audio > Stereo”.

|                                                                                                               |                                                                                  |   |                                                         |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---|---------------------------------------------------------|
|                                                                                                               | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit |   |                                                         |
| <div>Place a Call</div> <div>Address Book</div> <div>Control</div> <div>Diagnostics</div> <div>Settings</div> | Network                                                                          | ↑ | <input checked="" type="checkbox"/> Enable              |
|                                                                                                               | Account                                                                          |   | Alias Of Left Channel: <input type="text"/>             |
|                                                                                                               | Call                                                                             |   | Alias Of Right Channel: <input type="text"/>            |
|                                                                                                               | Audio                                                                            |   | Mix Digital Microphone Into: < Both Channels >          |
|                                                                                                               | Audio Input                                                                      |   | Mix Audioin Into: < Both Channels >                     |
|                                                                                                               | Audio Output                                                                     |   | Output Of HDMI-1 Left Channel From: < Left Channels > ↓ |
|                                                                                                               | ECHO Elimi...                                                                    |   |                                                         |
|                                                                                                               | USB Audio                                                                        |   | <input type="button" value="Save"/>                     |
|                                                                                                               | Audio Capa...                                                                    |   | <input type="button" value="Restore Defaults"/>         |
|                                                                                                               | Digital MIC                                                                      | ↓ | <input type="button" value="Stereo"/>                   |

**Step 2** Configure the “Stereo” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter                           | Parameter Declaration                                     | Parameter Setting      |
|-------------------------------------|-----------------------------------------------------------|------------------------|
| Enable                              | Select whether to enable the stereo.                      | Default: Disabled      |
| Alias Of Left Channel               | Configure the left channel alias.                         | Default: Empty         |
| Alias Of Right Channel              | Configure the right channel alias.                        | Default: Empty         |
| Mix Digital Microphone Into         | Configure the parameters for mix digital microphone into. | Default: Both Channels |
| Mix Microphone Into                 | Configure the parameters for mix microphone into.         | Default: Both Channels |
| Output Of HDMI-1 Left Channel From  | Configure HDMI-1 left channel output parameter.           | Default: Left Channel  |
| Output Of HDMI-1 Right Channel From | Configure HDMI-1 right channel output parameter.          | Default: Right Channel |

### 3.8.5 Video

Configure the Video Output, Video Capability, HDMI Layout and other parameters.

#### 3.8.5.1 Video Input

The terminal has four video input interfaces: HDMI IN1, HDMI IN2, HDMI IN3, and NET VIDEO.

##### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Video > Video Input”.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|  Place a Call<br> Address Book<br> Control<br> Diagnostics<br> Settings | <div>  Network<br/>  Account<br/>  Call<br/>  Audio<br/>  Video         </div> <div> <div>Video Input</div> <div>Video Output</div> <div>HDMI-1 Lay...</div> <div>HDMI-2 Lay...</div> <div>HDMI-3 Lay... ▼</div> </div> <div> <div>NET VIDEO1: <u>rtsp://169.254.2.XX</u> (*Please configure the camera IP ...)</div> <div>NET VIDEO2: <u>rtsp://</u> (*Please configure the camera IP ...)</div> <div>Save</div> <div>Restore Defaults</div> </div> |

**Step 2** Configure the “Video Input” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter   | Parameter Declaration                                 | Parameter Setting |
|-------------|-------------------------------------------------------|-------------------|
| NET VIDEO 1 | Configure the first network video streaming address.  | Default: Empty    |
| NET VIDEO 2 | Configure the second network video streaming address. | Default: Empty    |

#### 3.8.5.2 Video Output

The terminal has three video output interfaces: HDMI OUT 1, HDMI OUT 2, and HDMI OUT 3.

##### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Video > Video Output”.

|                                                                    |                                                                                  |                                                                                                                                                                         |      |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|                                                                    | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit |                                                                                                                                                                         |      |
| Place a Call<br>Address Book<br>Control<br>Diagnostics<br>Settings | Network<br>Account<br>Call<br>Audio<br>Video                                     | HDMI-1 Mode: < HDMI ><br>HDMI-1 Resolution: < 4KP30 ><br>HDMI-2 Mode: < HDMI ><br>HDMI-2 Resolution: < 4KP30 ><br>HDMI-3 Mode: < HDMI ><br>HDMI-3 Resolution: < 4KP30 > | <br> |
|                                                                    | Video Input                                                                      |                                                                                                                                                                         |      |
|                                                                    | Video Output                                                                     |                                                                                                                                                                         |      |
|                                                                    | HDMI-1 Lay...                                                                    | Save                                                                                                                                                                    |      |
|                                                                    | HDMI-2 Lay...                                                                    | Restore Defaults                                                                                                                                                        |      |
|                                                                    | HDMI-3 Lay...                                                                    |                                                                                                                                                                         |      |
|                                                                    |                                                                                  |                                                                                                                                                                         |      |
|                                                                    |                                                                                  |                                                                                                                                                                         |      |

**Step 2** Configure the “Video Output” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter         | Parameter Declaration                                                                                                                                                                         | Parameter Setting |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| HDMI-1 Mode       | The default output mode is HDMI.                                                                                                                                                              | Default: HDMI     |
| HDMI-1 Resolution | Configure HDMI-1 video output resolution: 4K60, 4K30, 1080P60, 720P60 (The output resolution is determined through EDID negotiation, and different displays negotiate different resolutions). | Default: 4KP30    |
| HDMI-2 Mode       | The default output mode is HDMI.                                                                                                                                                              | Default: HDMI     |
| HDMI-2 Resolution | Configure HDMI-2 video output resolution: 4K60, 4K30, 1080P60, 720P60 (The output resolution is determined through EDID negotiation, and different displays negotiate different resolutions). | Default: 4KP30    |
| HDMI-3 Mode       | The default output mode is HDMI.                                                                                                                                                              | Default: HDMI     |
| HDMI-3 Resolution | Configure HDMI-3 video output resolution: 4K60, 4K30, 1080P60, 720P60 (The output resolution is determined through EDID negotiation, and different displays negotiate different resolutions). | Default: 4KP30    |

| Parameter                                           | Parameter Declaration                                                                                   | Parameter Setting |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------|
| Send Presentation Automatically                     | Enable or disable send presentation automatically.                                                      | Default: Enabled  |
| Auto Start Preview When the Presentation Has Signal | Enable or disable auto start preview when the presentation has signal                                   | Default: Enabled  |
| Show Presentation                                   | Enable or disable show presentation. If disabled, layouts with auxiliary streams will not be displayed. | Default: Enabled  |
| Enable EDID                                         | Select whether to enable EDID.                                                                          | Default: Enabled  |

### 3.8.5.3 Picture Layout

When you need to display a combined image of the venue video and presentation screen on a display device, you can choose to switch the screen layout.

#### 3.8.5.3.1 HDMI-1 Layout

##### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Video > HDMI-1 Layout”.

|                                                                                                               |                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
|                                                                                                               | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                        |
| <div>Place a Call</div> <div>Address Book</div> <div>Control</div> <div>Diagnostics</div> <div>Settings</div> | <div>Call</div> <div>Audio</div> <div>Video</div> <div>Video Input</div> <div>Video Output</div> <div>HDMI-1 Lay...</div> <div>HDMI-2 Lay...</div> <div>HDMI-3 Lay...</div> <div>Video Capa...</div> <div>Encoding</div> | <div> <input checked="" type="checkbox"/> Enable POP         </div> <div> <input checked="" type="checkbox"/> Enable PIP         </div> <div> <input checked="" type="checkbox"/> Enable equal size layout         </div> <div>           Layout When Idle With Presentation: &lt; Presentat... &gt;         </div> <div>           Without Presentation: &lt; Large Far, Small Near &gt;         </div> <div>           With Presentation: &lt; Large Presentation, Small... &gt;         </div> <div>Save</div> <div>Restore Defaults</div> | <div>↑</div> <div>↑</div> <div>↓</div> |

**Step 2** Configure the “HDMI-1 Layout” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter                          | Parameter Declaration                                                                                                     | Parameter Setting                               |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| Enable POP                         | Select whether to enable the POP layout. If not enabled, all POP layouts will not be displayed.                           | Default: Enabled                                |
| Enable PIP                         | Select whether to enable the PIP layout. If not enabled, all PIP layouts will not be displayed.                           | Default: Enabled                                |
| Enable Equal Size Layout           | Select whether to enable the equal size layout. If not enabled, all equal size layouts will not be displayed.             | Default: Enabled                                |
| Layout When Idle with Presentation | Select the layout when idle with presentation. Terminal will automatically switch to the layout when entering this state. | Default: Presentation Full Screen               |
| Without Presentation               | Select the layout without presentation. Terminal will automatically switch to the layout when entering this state.        | Default: Large Far, Small Near                  |
| With Presentation                  | Select the layout with presentation. Terminal will automatically switch to the layout when entering this state.           | Default: Large Presentation, Small Far And Near |

### 3.8.5.3.2 HDMI-2 Layout

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Video > HDMI-2 Layout”.

|                                                                                                               |                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
|                                                                                                               | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             |
| <div>Place a Call</div> <div>Address Book</div> <div>Control</div> <div>Diagnostics</div> <div>Settings</div> | <div>Call</div> <div>Audio</div> <div>Video</div> <div>Video Input</div> <div>Video Output</div> <div>HDMI-1 Lay...</div> <div>HDMI-2 Lay...</div> <div>HDMI-3 Lay...</div> <div>Video Capa...</div> <div>Encoding</div> | <div> <input checked="" type="radio"/> Enable POP         </div> <div> <input checked="" type="radio"/> Enable PIP         </div> <div> <input checked="" type="radio"/> Enable equal size layout         </div> <div>           Layout When Idle with Presentation: &lt; Presentat... &gt;         </div> <div>           Without Presentation: &lt; Local full Screen &gt;         </div> <div>           With Presentation: &lt; Presentation Full Screen &gt;         </div> | <div>Save</div> <div>Restore Defaults</div> |

**Step 2** Configure the “HDMI-2 Layout” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter                          | Parameter Declaration                                                                                                     | Parameter Setting                 |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Enable POP                         | Select whether to enable the POP layout. If not enabled, all POP layouts will not be displayed.                           | Default: Disabled                 |
| Enable PIP                         | Select whether to enable the PIP layout. If not enabled, all PIP layouts will not be displayed.                           | Default: Disabled                 |
| Enable Equal Size Layout           | Select whether to enable the equal size layout. If not enabled, all equal size layouts will not be displayed.             | Default: Disabled                 |
| Layout When Idle with Presentation | Select the layout when idle with presentation. Terminal will automatically switch to the layout when entering this state. | Default: Presentation Full Screen |
| Without Presentation               | Select the layout without presentation. Terminal will automatically switch to the layout when entering this state.        | Default: Local Full Screen        |
| With Presentation                  | Select the layout with presentation. Terminal will automatically switch to the layout when entering this state.           | Default: Presentation Full Screen |

### 3.8.5.3.3 HDMI-3 Layout

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Video > HDMI-3 Layout”.

|                                                                    |                                                                                                                                                                    |                                                                                                                                                                                                                                                                                  |                                                                                        |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                                                                    | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                   |                                                                                                                                                                                                                                                                                  |                                                                                        |
| Place a Call<br>Address Book<br>Control<br>Diagnostics<br>Settings | Call<br>Audio<br>Video<br>Video Input<br>Video Output<br>HDMI-1 Lay...<br>HDMI-2 Lay...<br><input type="text" value="HDMI-3 Lay..."/><br>Video Capa...<br>Encoding | <input type="radio"/> Enable POP<br><input type="radio"/> Enable PIP<br><input type="radio"/> Enable equal size layout<br>Layout When Idle with Presentation: < Presentat... ><br>Without Presentation: < Local full Screen ><br>With Presentation: < Presentation Full Screen > | <input type="button" value="Save"/><br><input type="button" value="Restore Defaults"/> |

**Step 2** Configure the “HDMI-3 Layout” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter                          | Parameter Declaration                                                                                                     | Parameter Setting                 |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| Enable POP                         | Select whether to enable the POP layout. If not enabled, all POP layouts will not be displayed.                           | Default: Disabled                 |
| Enable PIP                         | Select whether to enable the PIP layout. If not enabled, all PIP layouts will not be displayed.                           | Default: Disabled                 |
| Enable Equal Size Layout           | Select whether to enable the equal size layout. If not enabled, all equal size layouts will not be displayed.             | Default: Disabled                 |
| Layout When Idle with Presentation | Select the layout when idle with presentation. Terminal will automatically switch to the layout when entering this state. | Default: Presentation Full Screen |
| Without Presentation               | Select the layout without presentation. Terminal will automatically switch to the layout when entering this state.        | Default: Local Full Screen        |
| With Presentation                  | Select the layout with presentation. Terminal will automatically switch to the layout when entering this state.           | Default: Presentation Full Screen |



Note

In addition to pre-configuring layouts, you can switch layouts during the meeting, select “Control> Picture Switching” to configure HDMI-1, HDMI-2 and HDMI-3 layouts.

### 3.8.5.4 Video Capabilities

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Video > Video Capabilities”.

|                                                                    |                                                                                  |      |                                             |   |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------|------|---------------------------------------------|---|
|                                                                    | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit |      |                                             |   |
| Place a Call<br>Address Book<br>Control<br>Diagnostics<br>Settings | Call                                                                             | ↑    | <input checked="" type="checkbox"/> H.265   | ↑ |
|                                                                    | Audio                                                                            |      | <input checked="" type="checkbox"/> H.264HP |   |
|                                                                    | Video                                                                            |      | <input checked="" type="checkbox"/> H.264   |   |
|                                                                    | Video Input                                                                      |      |                                             |   |
|                                                                    | Video Output                                                                     |      |                                             |   |
|                                                                    | HDMI-1 Lay...                                                                    |      |                                             |   |
|                                                                    | HDMI-2 Lay...                                                                    |      |                                             | ↓ |
|                                                                    | HDMI-3 Lay...                                                                    |      |                                             |   |
|                                                                    | Video Capa...                                                                    |      |                                             |   |
|                                                                    | Encoding                                                                         | ▼    |                                             |   |
|                                                                    |                                                                                  | Save | Restore Defaults                            |   |

**Step 2** Select the video protocol: H.265, H.264HP, H.264.

**Step 3** Select “Save”.



Note

- At least one video protocol must be selected to ensure the terminal can establish a video call.
- When all video capabilities are selected, H.265 is the default preferred video capability.
- 4K encoding is only supported under the H.265 video capability.

### 3.8.5.5 Encoding

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Video > Encoding”.

|                                                                    |                                                                                                                                       |                                                                                                                                                |                          |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|                                                                    | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                      |                                                                                                                                                |                          |
| Place a Call<br>Address Book<br>Control<br>Diagnostics<br>Settings | Call<br>Audio<br>Video<br>Video Input<br>Video Output<br>HDMI-1 Lay...<br>HDMI-2 Lay...<br>HDMI-3 Lay...<br>Video Capa...<br>Encoding | Encoder Type: < Encoder_camera ><br>Decoder Type: < Decoder_hardware ><br>Decoder Resolution: < 4K ><br>Video Interworking Mode: < Auto Mode > | Save<br>Restore Defaults |

**Step 2** Configure the “Encoding” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter               | Parameter Declaration                                              | Parameter Setting            |
|-------------------------|--------------------------------------------------------------------|------------------------------|
| Encoded Type            | The default encoding mode is Encoder_hardware.                     | Default:<br>Encoder_hardware |
| Decoder Type            | The default decoding mode is Decoder_hardware.                     | Default:<br>Decoder_hardware |
| Decoder Resolution      | Configure the decoder resolution: 4K, 1080P.                       | Default: 4K                  |
| Video Interworking Mode | Configure the video interworking mode: Auto Mode, Compatible Mode. | Default: Auto Mode           |

### 3.8.6 Record

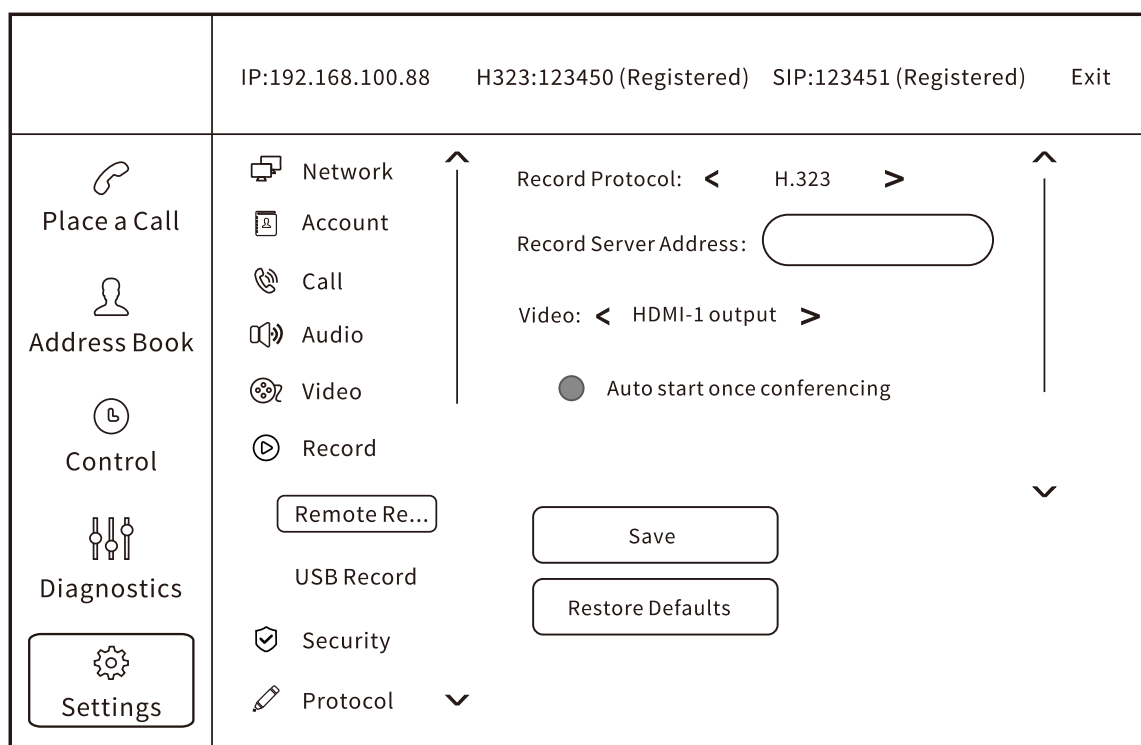
When using the terminal, you can record either the main video source or the HDMI-1 output and the recorded videos can be saved and played back. Terminal supports remote record and USB record. Remote record stores the recorded content on a recording server, and USB record saves the content to a local USB drive. Due to limited recording resources, remote record and USB record cannot be used simultaneously.

### 3.8.6.1 Remote Record

Before using the remote record function, you must configure the Record Protocol, Record Server Address and recording source.

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Record > Remote Record”.



**Step 2** Configure the “Remote Record” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter       | Parameter Declaration                | Parameter Setting |
|-----------------|--------------------------------------|-------------------|
| Record Protocol | Select record protocol: H.323, RTMP. | Default: H.323    |

#### ➤ Parameter Table for H.323 Recording Protocol

| Parameter             | Parameter Declaration                                                                                                                        | Parameter Setting                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Record Server Address | Configure record server address, the remote recording using the H.323 protocol and the address is an H.323 address, e.g. 3212@192.168.1.240. | Please configure the recording server according to your actual setup |

| Parameter                    | Parameter Declaration                                                                                                                                                                                                                                                                                           | Parameter Setting      |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Video                        | Select recorded content: <ul style="list-style-type: none"> <li>● Main video source: The main video source of the terminal, generally for the camera input.</li> <li>● HDMI-1 output: The first video output of the terminal.</li> </ul>                                                                        | Default: HDMI-1 Output |
| Auto Start Once Conferencing | When enabled auto start once conferencing, terminal will automatically activate the remote recording after initiating the meeting, transmitting recorded content to the remote recording server. Recording will be automatically terminated upon leaving the meeting without requiring additional intervention. | Default: Disabled      |

➤ **Parameter Table for RTMP Recording Protocol**

| Parameter             | Parameter Declaration                                                                                      | Parameter Setting                                                    |
|-----------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| RTMP Server Address   | Configure RTMP server address.                                                                             | Please configure the recording server according to your actual setup |
| Auto Complete Address | Enable or disable automatic complete address.                                                              | Default: Disabled                                                    |
| Bit Rate              | Configure RTMP streaming bit rate.                                                                         | Default: 768Kbps                                                     |
| Audio                 | Configure RTMP streaming audio source: Local and Remote, Local.                                            | Default: Local and Remote                                            |
| Video                 | Configure RTMP streaming video source: Primary Video Source, HDMI-1 Output.                                | Default: Primary Video Source                                        |
| Start Mode            | Configure RTMP streaming start mode: Manual Start, Auto Start Once Power On, Auto Start Once Conferencing. | Default: Manual Start                                                |



Note

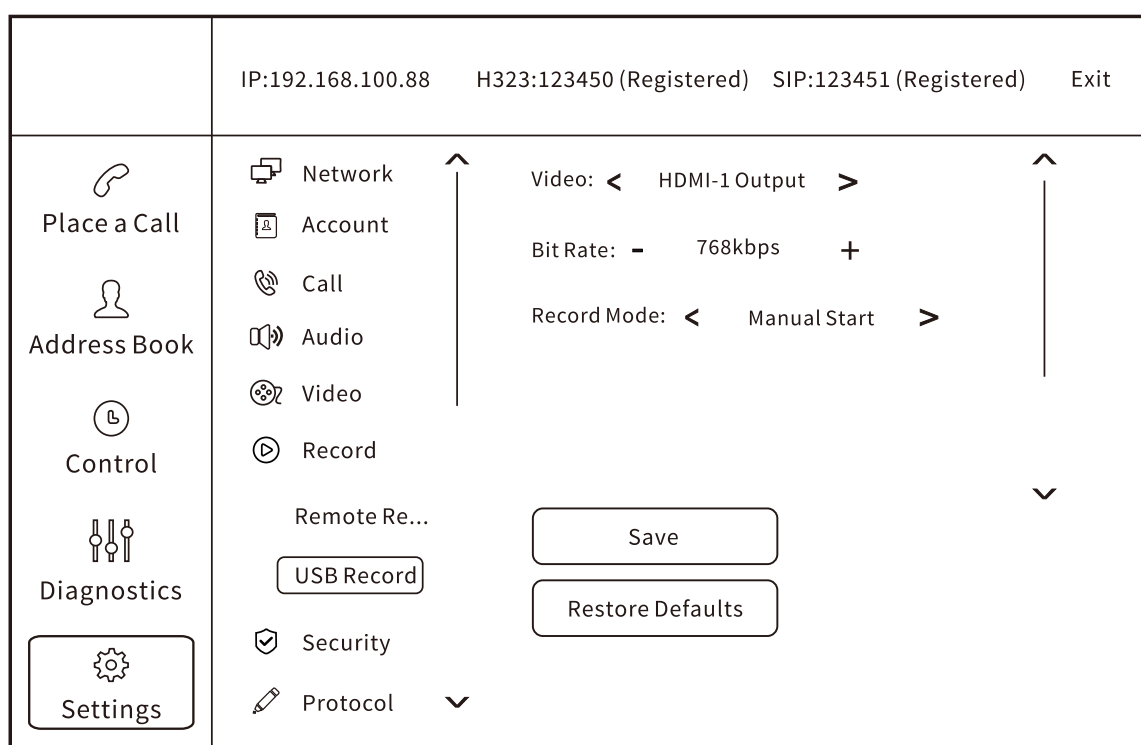
When selecting manual start mode, the remote record must be controlled manually. Move the cursor to select “Control > Record Control,” to enable or disable the “Enable Remote Record” function.

### 3.8.6.2 USB Record

USB record employs rolling loop recording, when the USB drive is full, it will automatically delete the earliest recorded files. Recordings are saved in 30-minute segments that meaning each video file size equals the data volume captured during a 30-minute recording session. The recorded files are named in the format: “Terminal Name + Recording Start Time + .mp4” suffix. Management of USB record files is exclusively accessible via the web interface. Individual files can be played locally in a browser (Chrome or Firefox recommended) to view recorded content. Alternatively, files may be downloaded to a local computer and played using a media player. To use the USB record feature, you must provide your own USB flash drive as the storage device and insert it into the terminal's USB port. To achieve the desired recording effect, configure the recording source, video resolution, bit rate, and recording mode as needed.

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Record > USB Record”.



**Step 2** Configure the “USB Record” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter   | Parameter Declaration                                                                                                                                                                                                                                                               | Parameter Setting      |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Video       | Select recorded content: <ul style="list-style-type: none"> <li>● Main video source: The main video source of the terminal, generally for the camera input.</li> <li>● HDMI-1 output: The first video output of the terminal.</li> </ul>                                            | Default: HDMI-1 Output |
| Bit Rate    | The bit rate for recording video content and it can be adjusted up or down as needed.                                                                                                                                                                                               | Default: 768kbps       |
| Record Mode | Select record mode: <ul style="list-style-type: none"> <li>● Start from start: Automatically start USB recording upon power-up.</li> <li>● Self-start: Automatically start USB recording when the meeting begins.</li> <li>● Manual start: Manually start USB recording.</li> </ul> | Default: Manual Start  |



Note

The USB record startup method is determined by the “Recording Mode” setting. You must manually turn off the USB record and ensure the USB drive format is FAT32. Do not remove the USB drive while USB record is active to prevent damage to recorded files and the USB flash drive device.

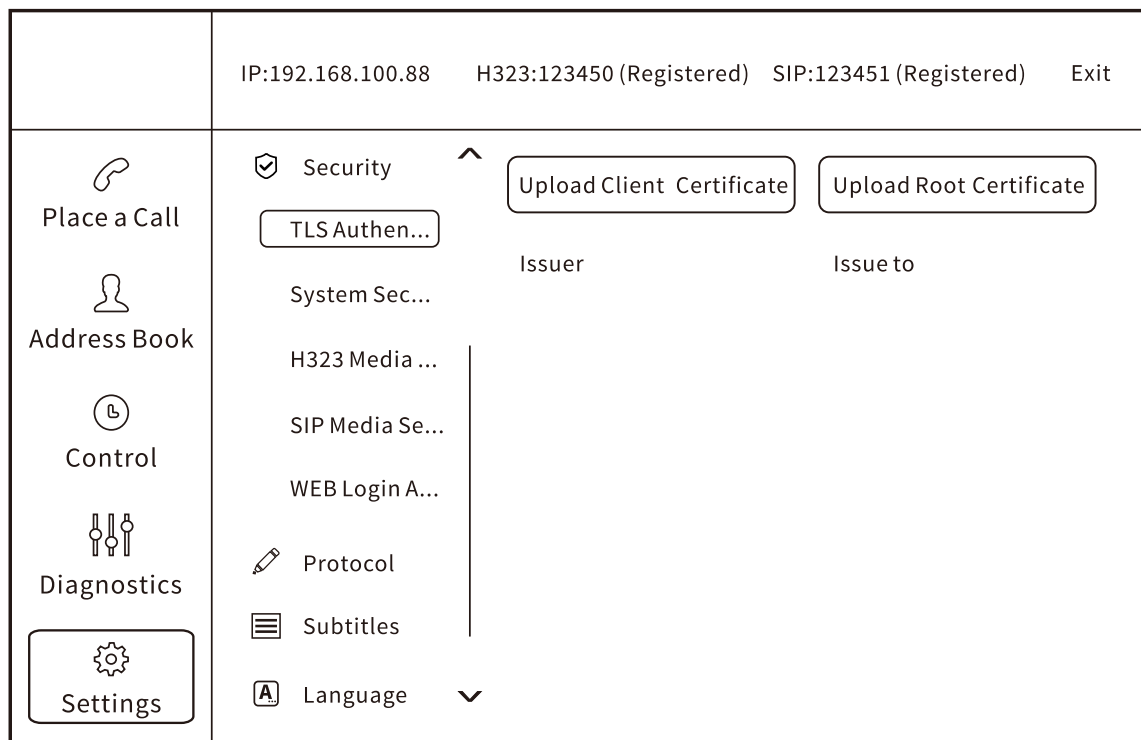
### 3.8.7 Security

To enhance meeting security, encryption can be applied to meeting data.

#### 3.8.7.1 TLS Authentication

##### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Security > TLS Authentication”.

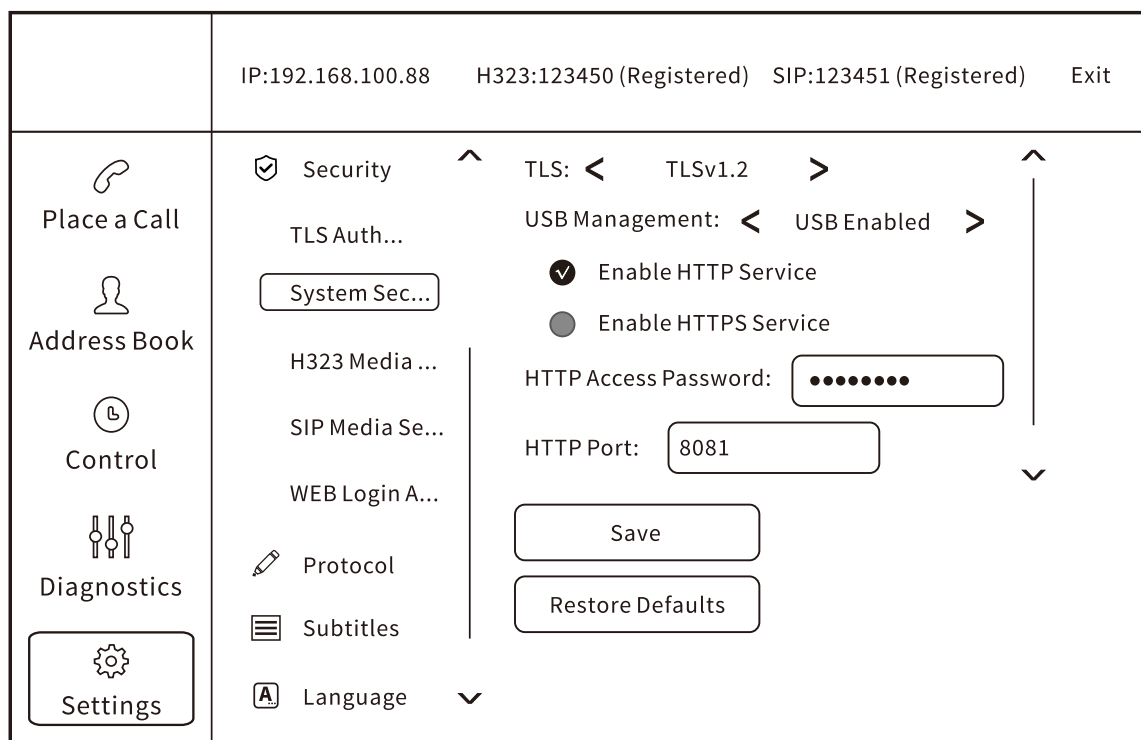


**Step 2** Select “Upload Client Certificate” or “Upload Root Certificate” and follow the on-screen prompts to complete the operation.

### 3.8.7.2 System Security

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Security > System Security”.



**Step 2** Configure the “System Security” parameters, which are shown in the table below.

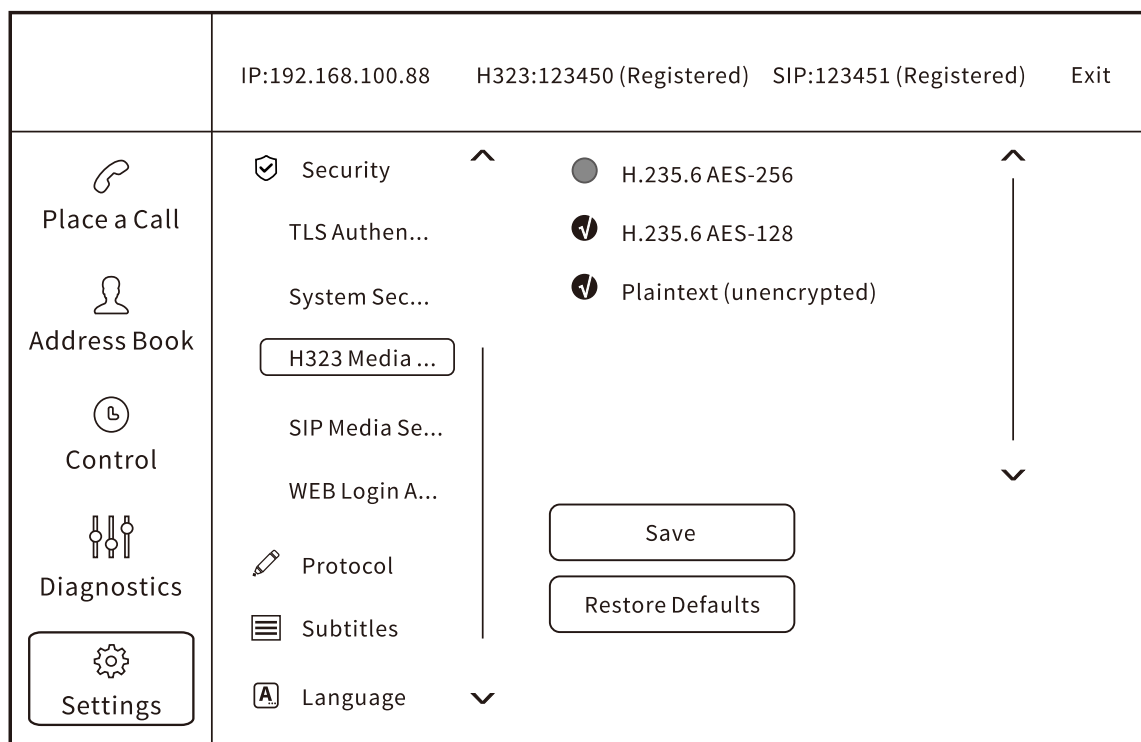
**Step 3** Select “Save”.

| Parameter             | Parameter Declaration                                                                                                                                   | Parameter Setting                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| TLS                   | Select TLS version: TLSv1.2, TLSv1.3.                                                                                                                   | Default: TLSv1.2                                                                        |
| USB Management        | Select USB management mode: USB Enabled, External Data Storage Disabled, USB Disabled.                                                                  | Default: USB Enabled                                                                    |
| Enable HTTP Service   | Access the terminal WEB interface or API without encryption.                                                                                            | Default: Enabled                                                                        |
| Enable HTTPS Service  | Access the terminal WEB interface or API with encryption.                                                                                               | Default: Disabled                                                                       |
| HTTP Access Password  | Configure HTTP access password.                                                                                                                         | Default: Cw + the last six digits of the terminal's serial number in reverse order + \$ |
| HTTP Port             | Configure HTTP access port.                                                                                                                             | Default: 8081                                                                           |
| Enable SSH Service    | The SSH protocol encrypts the data transmission of both parties. After the SSH service is enabled, the terminal can be logged in remotely and securely. | Default: Disabled                                                                       |
| Enable Admin Password | Select whether to enable the admin password.                                                                                                            | Default Disabled                                                                        |
| Enable Screensaver    | Select whether to enable the screensaver.                                                                                                               | Default Disabled                                                                        |
| Enable Telnet Control | Select whether to enable the telnet control.                                                                                                            | Default: Disabled                                                                       |

### 3.8.7.3 H323 Media Security

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Security > H323 Media Security”.



**Step 2** Configure the “H323 Media Security” parameters, which are shown in the table below.

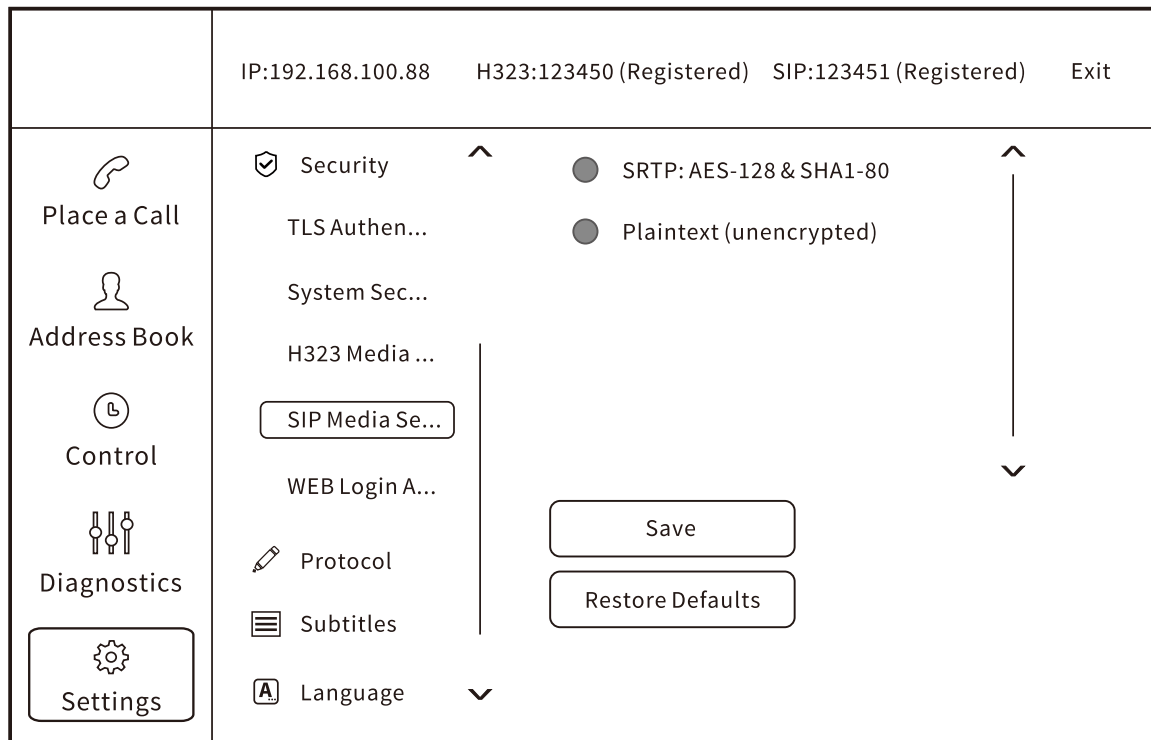
**Step 3** Select “Save”.

| Parameter                  | Parameter Declaration                      | Parameter Setting |
|----------------------------|--------------------------------------------|-------------------|
| H.235.6 AES-256            | Enable or disable the H.235.6 AES-256.     | Default: Disabled |
| H.235.6 AES-128            | Enable or disable the H 235.6 AES-128.     | Default: Enabled  |
| Plaintext<br>(unencrypted) | Enable or disable plaintext (unencrypted). | Default: Enabled  |

### 3.8.7.4 SIP Media Security

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Security > SIP Media Security”.



**Step 2** Configure the “SIP Media Security” parameters, which are shown in the table below.

**Step 3** Select “Save”.

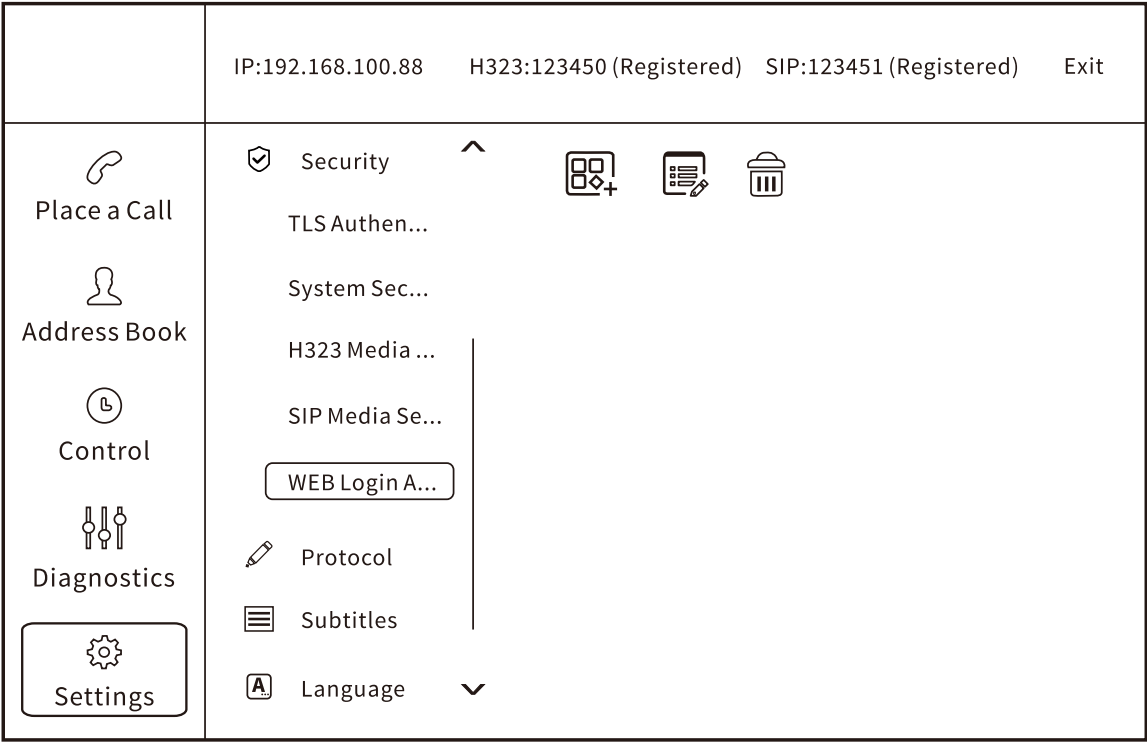
| Parameter               | Parameter Declaration                       | Parameter Setting |
|-------------------------|---------------------------------------------|-------------------|
| SRTP: AES-128 & SHA1-80 | Enable or disable SRTP: AES-128 & SHA 1-80. | Default: Disabled |
| Plaintext (unencrypted) | Enable or disable plaintext (unencrypted).  | Default: Disabled |

### 3.8.7.5 WEB Login Apply Blacklist

The terminal supports adding, editing and deleting the IP blacklist. The IP addresses listed on the WEB login blacklist page are prohibited from accessing the terminal's web interface.

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Security > WEB Login Apply Blacklist”.



**Step 2** Select to add, edit, or delete IP blacklist.

**3.8.8 Protocol**

Configure the H.323 or SIP registration information as needed.

**3.8.8.1 H.323**

➤ **Operating Steps**

**Step 1** Enter the WEB configuration page, select “⚙️ > Protocol > H.323”.

|                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                               | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <div>Place a Call</div> <div>Address Book</div> <div>Control</div> <div>Diagnostics</div> <div>Settings</div> | <div> <div>Video</div> <div>Record</div> <div>Security</div> <div>Protocol</div> <div>H.323</div> <div>SIP</div> <div>Subtitles</div> <div>Language</div> <div>Others</div> </div> <div> <div> <input checked="" type="checkbox"/> Enable call IP address directly when registered         </div> <div> <input type="checkbox"/> Enable H.245 tunnel         </div> <div> <input type="checkbox"/> Send GRQ         </div> <div> <input checked="" type="checkbox"/> Enable H.239 control         </div> <div> <input checked="" type="checkbox"/> Enable H.239 static dual stream         </div> <div>           Send DTMF As: &lt; RFC2833 &gt;         </div> <div>Save</div> <div>Restore defaults</div> </div> |

**Step 2** Configure the “H.323 Protocol” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter                                       | Parameter Declaration                                                          | Parameter Setting |
|-------------------------------------------------|--------------------------------------------------------------------------------|-------------------|
| Enable Call IP Address Directly When Registered | Select whether to enable call IP address directly when registered H.323.       | Default: Enabled  |
| Enable H.245 Tunnel                             | Select whether to enable H.245 tunnel.                                         | Default: Disabled |
| Send GRQ                                        | Enable or disable send GRQ.                                                    | Default: Disabled |
| Enable H.239 Control                            | Select whether to enable H.239 control.                                        | Default: Enabled  |
| Enable H.239 Static Dual Stream                 | Select whether to enable H.239 static dual stream.                             | Default: Enabled  |
| Send DTMF As                                    | Configure send DTMF as mode: String, Audio Frequency, RFC2833, Q.931, In Band. | Default: RFC2833  |

### 3.8.8.2 SIP

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Protocol > SIP”.

**Step 2** Configure the “SIP Protocol” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter                                  | Parameter Declaration                                             | Parameter Setting  |
|--------------------------------------------|-------------------------------------------------------------------|--------------------|
| Send DTMF as                               | Configure send DTMF as mode: Auto, RFC2833, INFO, in-band.        | Default: Auto      |
| Keep-alive Mode                            | Configure SIP keep-alive mode: By OPTION, No Keep-alive, By CRLF. | Default: By OPTION |
| Keep-alive Cycle                           | Configure SIP keep-alive cycle value.                             | Default: 30        |
| PRACK Mode                                 | Configure PRACK mode: Auto, Supported and Disabled.               | Default: Auto      |
| Enable Compact Mode to Encode Large Packet | Select whether to enable compact mode to encode large packet.     | Default: Disabled  |
| Enable BFCP Control                        | Select whether to enable the BFCP feature.                        | Default: Enabled   |
| BFCP Client as Default                     | Enable or disable BFCP client as default.                         | Default: Enabled   |
| BFCP Transmission Mode                     | Configure BFCP transmission mode: TCP, UDP.                       | Default: UDP       |
| Enable UDP Monitoring                      | Select whether to enable UDP monitoring.                          | Default: Enabled   |
| UDP Monitoring Port                        | Configure UDP monitoring port number.                             | Default: 5060      |
| Enable TCP Monitoring                      | Select whether to enable TCP Monitoring.                          | Default: Enabled   |

| Parameter                             | Parameter Declaration                                    | Parameter Setting |
|---------------------------------------|----------------------------------------------------------|-------------------|
| TCP Monitoring Port                   | Configure TCP monitoring port number.                    | Default: 5060     |
| Ignore Call from Unregistered Servers | Enable or disable ignore call from unregistered servers. | Default: Enabled  |
| Using Prefix SIP in TLS Mode          | Enable or disable using prefix sip in TLS mode.          | Default: Enabled  |
| Caller Dose Not Send Re-invitation    | Enable or disable caller dose not send re-invitation.    | Default: Disabled |
| Send Info Request Key Frame           | Enable or disable send info request key frame.           | Default: Disabled |
| BFCP Support RFC8855                  | Enable or disable BFCP support RFC8855.                  | Default: Disabled |
| Call History From SIP Contact         | Enable or disable call history from SIP contact.         | Default: Disabled |

### 3.8.9 Subtitles

Configure the Terminal Name, Banner and Scroll Caption parameters.

#### 3.8.9.1 Terminal Name

Enter the WEB configuration page, select “ > Subtitle > Terminal Name” to enable or disable Subtitle Display. When enabling, you need to configure the Font Size, Font Color, and background Color etc.

#### 3.8.9.2 Banner

Enter the WEB configuration page, select “ > Subtitle > Banner” to configure the font size, font color, background color and banner content sent to the remote end.

#### 3.8.9.3 Scroll Caption

Enter the WEB configuration page, select “ > Subtitles > Scroll Caption” to configure the front size, front color, background color, and scrolling content for the scrolling subtitles sent to remote end.

### 3.8.10 Language

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Languages”.



**Step 2** After configuring the system language, log back to the WEB page.

### 3.8.11 System

Enter the WEB configuration interface, select “ > System > Advanced Settings” to select whether to enable infrared transport.

### 3.8.12 Others

On the “Others” menu page, select to configure the terminal Date, Logging, Upgrade, etc.

#### 3.8.12.1 Date

Enter the WEB configuration page, select “ > Others > Date” to configure NTP Server Mode. When selecting the “Custom” mode, you need to configure the NTP Server Address.

#### 3.8.12.2 Logging

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Others > Logging”.

|                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                    | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                                                                                                                                                                                                                                                                                                                             |
| Place a Call<br>Address Book<br>Control<br>Diagnostics<br>Settings | <div>  Protocol    ^    Log Level: -    3    +    ^         </div> <div>  Subtitles    <input checked="" type="checkbox"/> Save log to file         </div> <div>  Language    <input type="radio"/> Send log to log server         </div> <div>  Others         </div> <div>       Date     </div> <div> <div>Logging</div> <div>Save</div> <div>Restore Defaults</div> </div> <div>       Configuration     </div> <div>       Upgrade     </div> <div>       Factory Reset    v     </div> |

**Step 2** Configure the “Logging” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter              | Parameter Declaration                                                                                                              | Parameter Setting |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Log Level              | Configure log-level value.                                                                                                         | Default: 3        |
| Save Log to File       | Enable or disable save log to file.                                                                                                | Default: Enabled  |
| Send Log to Log Server | Enable or disable send log to the log server.<br>When enabled, you need to configure the “log server address and log server port”. | Default: disabled |

### 3.8.12.3 Configuration

Enter the WEB configuration page, select “ > Others> Configuration” to select “Export the Configuration to a USB Drive” or “Import Configuration from USB Drive.”



Note

Before importing and exporting the configuration, please insert a USB drive formatted in FAT32.

### 3.8.12.4 Upgrade

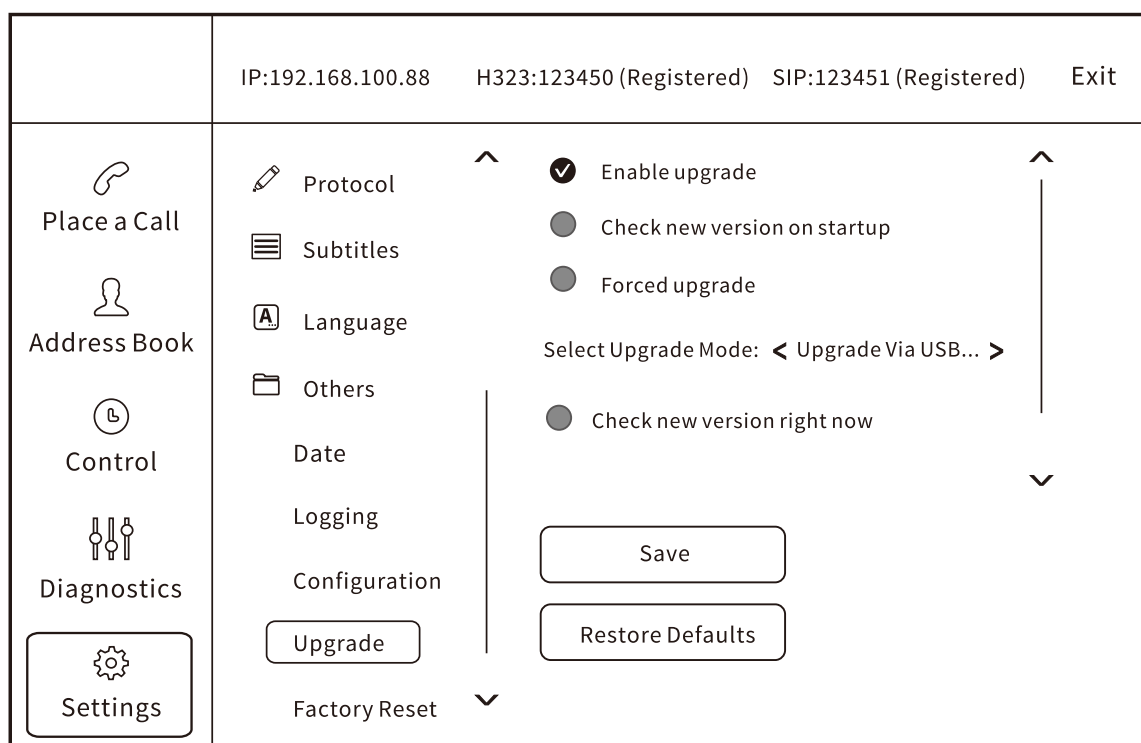
Upgrade mode: Upgrade Via USB Storage, Upgrade by Uploading Via Browser, Upgrade Via Network.

- Upgrade via USB storage: The terminal automatically detects the new version on the USB flash drive and upgrades follow the prompts.
- Upgrade by uploading via browser: Upload the upgrade package from the local computer and upgrade follow the prompts.
- Upgrade via network: The terminal retrieves upgrade files from the specified HTTP server and upgrades follow the prompts.

#### 3.8.12.4.1 Upgrade Via USB Storage

##### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Others > Upgrade”.



**Step 2** Select “Upgrade Via USB Storage” upgrade mode.

**Step 3** Select “Save”.

**Step 4** Place the upgrade file under the root of the USB drive and insert the USB drive into the USB interface on the rear panel.

**Step 5** Please follow the prompts to complete the upgrade.



Notice

- The first partition of the USB drive must be used, and the partition format must be FAT 32. If a hidden partition exists, it must be deleted. Use Windows Disk Management to check for hidden partitions.
- After the download completes and “OK” is selected, terminal needs to restart manually if it does not restart automatically.

### 3.8.12.5 Factory Reset

#### ➤ Operating Steps

**Step 1** Enter the WEB configuration page, select “ > Others > Factory Reset”.

|                                                                                                               |                                                                                                                                                                                        |                                                                                                                                                                                                                                                                              |  |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                               | IP:192.168.100.88    H323:123450 (Registered)    SIP:123451 (Registered)    Exit                                                                                                       |                                                                                                                                                                                                                                                                              |  |
| <div>Place a Call</div> <div>Address Book</div> <div>Control</div> <div>Diagnostics</div> <div>Settings</div> | <div>Protocol</div> <div>Subtitles</div> <div>Language</div> <div>Others</div> <div>Date</div> <div>Logging</div> <div>Configuration</div> <div>Upgrade</div> <div>Factory Reset</div> | <div> <input checked="" type="checkbox"/> Enable Save Account Information<br/> <input checked="" type="checkbox"/> Enable Save IP Information<br/> <input checked="" type="checkbox"/> Enable Start Factory Reset         </div> <div>Save</div> <div>Restore Defaults</div> |  |

**Step 2** Configure the “Factory Reset” parameters, which are shown in the table below.

**Step 3** Select “Save”.

| Parameter                       | Parameter Declaration                                                                                                                                          | Parameter Setting |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Enable Save Account Information | Select whether to enable save account information. When enabled, the account information will not be cleared after the device is restored to factory settings. | Default: Enabled  |
| Enable Save IP Information      | Select whether to enable save IP information. When enabled, the IP information will not be cleared after the device is restored to factory settings.           | Default: Enabled  |

| Parameter                  | Parameter Declaration                         | Parameter Setting |
|----------------------------|-----------------------------------------------|-------------------|
| Enable Start Factory Reset | Select whether to enable start factory reset. | Default: Enabled  |

## 4 Troubleshooting

The common image malfunction symptoms, possible causes and solutions are listed in the table below.

| Fault Phenomenon                                                                  | Possible Cause                                                  | Countermeasure                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Boot stuck                                                                        | System stuck                                                    | Stuck on the startup logo: Press and hold the Reset button until the startup logo appears, then release it to restore the backup system.                                                                                                                       |
|                                                                                   |                                                                 | Stuck on the startup animation: Press and hold the reset button for 3 seconds to restore factory settings.                                                                                                                                                     |
| Terminal started but did not join the conference and the display is black         | Power of display device is not turned on                        | Turn on the display device.                                                                                                                                                                                                                                    |
|                                                                                   | Video output cable connection is loose                          | Tighten the cable connecting the terminal to the display device.                                                                                                                                                                                               |
|                                                                                   | Output format of the display device does not match the terminal | Enter the WEB configuration page, select “  > Video > Video Output” to switch the video output resolution; Or use the short key of remote control to switch the resolution. |
| After joining the conference, the local end sends an abnormal secondary streaming | No secondary video source connected                             | Connect an external HD camera or a second video source to the HDMI IN 1, HDMI IN 2, NET VIDEO 1 interface of the terminal; Or input the second video image via wireless screen sharing.                                                                        |
|                                                                                   | Secondary video source is connected, but the cable is loose     | Tighten the cable connecting the terminal to the secondary streaming device.                                                                                                                                                                                   |
| After joining the conference, there is an ECHO when speaking on the end           | Echo elimination is not enabled                                 | Enter the WEB configuration page, select “  > Audio > Echo Elimination” to enable the “Enable ECHO elimination on linear input”.                                            |

| Fault Phenomenon                                           | Possible Cause                                               | Countermeasure                                                                                                                                                                                                                                    |
|------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local image flickering                                     | Indoor light frequency causes camera images to flicker       | Adjust the corresponding anti-flicker value according to the local AC frequency.                                                                                                                                                                  |
| No audio input                                             | Audio input is not enabled                                   | Enter the WEB configuration page, select “  > Audio > Audio Input” to enable the corresponding audio input.                                                      |
|                                                            | Audio input device abnormal                                  | Enter the WEB configuration page, select “Diagnosis > Near Audio Loopback” to enable the “Near Audio Loopback Test” and test whether the local audio device is functioning properly.                                                              |
|                                                            | Audio input volume is low                                    | Press the volume “+” key on the remote control to increase the audio input volume (default is 8).                                                                                                                                                 |
| No audio output                                            | Audio output is not enabled                                  | Enter the WEB configuration page, select “  > Audio > Audio Output” to enable HDMI audio output, linear output, etc.                                           |
|                                                            | Audio output volume is low                                   | Press the volume “+” key on the remote control to increase the audio output volume (default is 8).                                                                                                                                                |
| Resolution on the terminal does not reach 4K               | MCU not supported                                            | The platform does not support this feature. Please switch to an MCU platform that supports 4K.                                                                                                                                                    |
|                                                            | H.265 video capability is not selected                       | Enter the WEB configuration page, select “  > Video > Video Capabilities” and check H.265.                                                                     |
| Unable to control camera pan and zoom using remote control | RS232 control line is not connected or connected incorrectly | Connect one end of the RS232 cable (network port) to the COM interface of the terminal, and the other end (Din8) to the RS232 IN interface of the HD camera. Connecting to other interfaces may prevent the terminal from controlling the camera. |