



Prestel VCS-G30

Split 1080P60 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

1	Overview	I
1.1	Administrator Definition	I
1.2	Administrator' s Requirements.....	I
1.3	Safety Precautions	II
2	Operation (Remote Control)	1
2.1	Terminal Guide	1
2.2	Main Interface	7
2.3	Register Account.....	8
2.3.1	Register SIP Account	8
2.3.2	Register H323 Account	9
2.3.3	Register WeConf Account (Optional)	10
2.4	Join Meeting	11
2.4.1	Meeting Calling.....	11
2.4.2	Join Weconf Meeting (Optional)	12
2.4.3	Create WeConf Meeting (Optional)	15
2.5	Call Answering	17
2.6	Conference Control	18
2.6.1	Conference Control	18
2.6.2	Send Presentation.....	18
2.6.3	Picture Switching	19
2.6.4	Call Information	19
2.6.5	Camera Control	19
2.7	Address Book	20
2.7.1	Local Contact	20
2.7.2	Enterprise Contact (Optional)	23
2.8	Camera.....	26
2.9	GUI Setting.....	27
2.9.1	Network	27
2.9.2	Video	28
2.9.3	Audio.....	29
2.9.4	General	30
2.9.5	Layout.....	32
2.9.6	One Click Detection.....	33
2.9.7	About	34
2.10	Remote Control	36
3	Operational (WEB)	38
3.1	Login	38

3.2	Meeting Calling	40
3.3	Presentation	41
3.4	Call Records	42
3.4.1	View All Call Records	42
3.4.2	Match Call Records	42
3.4.3	Clear Call Records	43
3.5	Address Book	46
3.5.1	Add Address	46
3.5.2	Edit Address	46
3.5.3	Management Group	47
3.5.4	Delete Address	50
3.5.5	Import Address Book	52
3.5.6	Export Address Book	52
3.6	Control	54
3.6.1	Presentation	54
3.6.2	Camera Control	54
3.6.3	Audio Control	55
3.6.4	Record Control	55
3.6.5	Switch Video Source	55
3.6.6	Picture Switching	55
3.6.7	Conference Control	56
3.6.8	Conference Lock	56
3.6.9	Power Control	56
3.7	Diagnostics	57
3.7.1	Call Information	57
3.7.2	Near Audio Loopback	58
3.7.3	Video Refreshing	58
3.7.4	Volume Information	58
3.7.5	Video Input	58
3.7.6	Packet Interception Function	58
3.7.7	Network Test	59
3.7.8	System Information	59
3.7.9	Log Information	59
3.8	Settings	60
3.8.1	Network	60
3.8.2	Account	66
3.8.3	Call	71
3.8.4	Audio	74
3.8.5	Video	83

- 3.8.6 Record.....90
- 3.8.7 Security.....94
- 3.8.8 Protocol99
- 3.8.9 Subtitles102
- 3.8.10 Language.....103
- 3.8.11 System.....103
- 3.8.12 Others.....103
- 4 Troubleshooting..... 108**

1 Overview

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

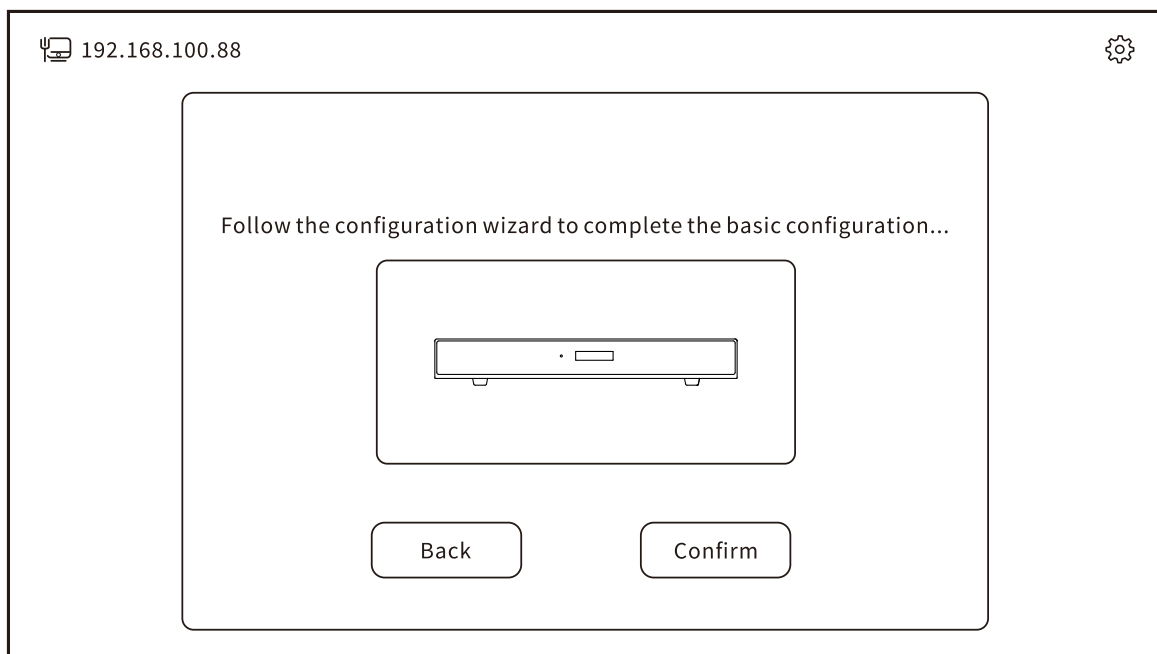
- Please use the correct type of battery and install the battery in the correct polarity.
- When the battery does not fit properly into the device, do not squeeze the battery hard to prevent the battery from leaking or bursting.
- It should be replaced immediately if the battery leaks, emits smoke, or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

2 Operation (Remote Control)

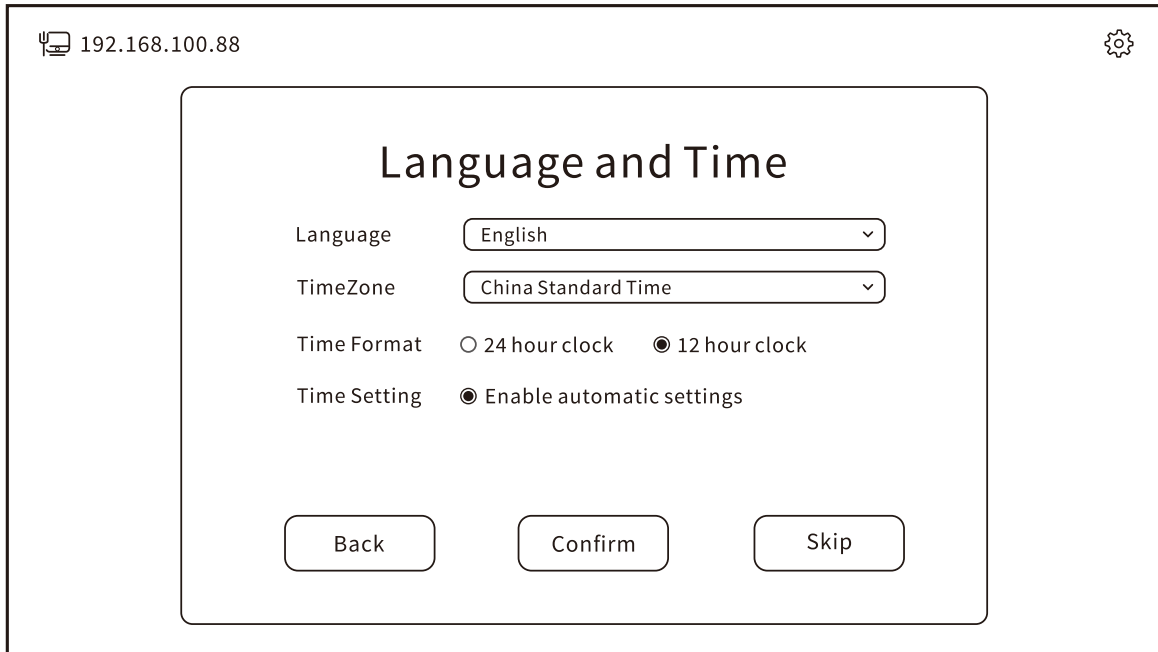
2.1 Terminal Guide

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).

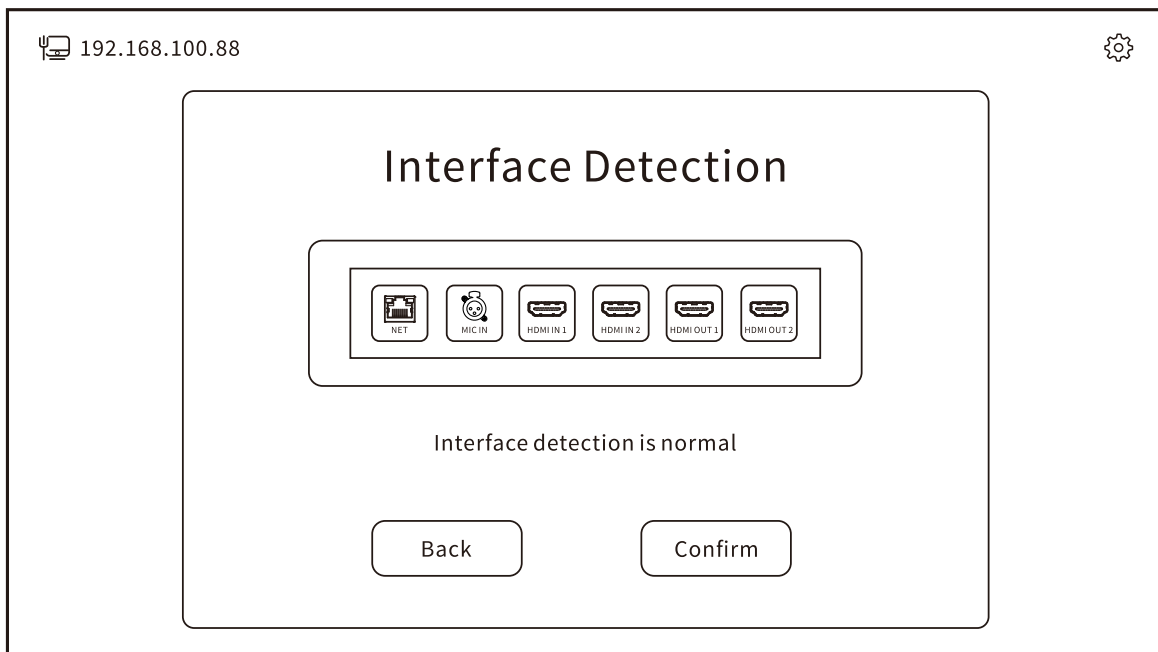


2. Configure Language and Time, select “Confirm” to go ahead.



The screenshot shows a web interface for configuring language and time. At the top left, there is a Wi-Fi icon and the IP address '192.168.100.88'. At the top right is a gear icon for settings. The main title is 'Language and Time'. Below the title, there are four settings: 'Language' set to 'English', 'TimeZone' set to 'China Standard Time', 'Time Format' with radio buttons for '24 hour clock' and '12 hour clock' (the latter is selected), and 'Time Setting' with a radio button for 'Enable automatic settings' (which is selected). At the bottom, there are three buttons: 'Back', 'Confirm', and '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.



The screenshot shows a web interface for interface detection. At the top left, there is a Wi-Fi icon and the IP address '192.168.100.88'. At the top right is a gear icon for settings. The main title is 'Interface Detection'. Below the title, there is a box containing six icons representing different interfaces: 'NET', 'MIC IN', 'HDMI IN 1', 'HDMI IN 2', 'HDMI OUT 1', and 'HDMI OUT 2'. Below this box, the text 'Interface detection is normal' is displayed. At the bottom, there are two buttons: 'Back' and '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

Register SIP ☒

Account

Register Password

Register Server

Proxy Server

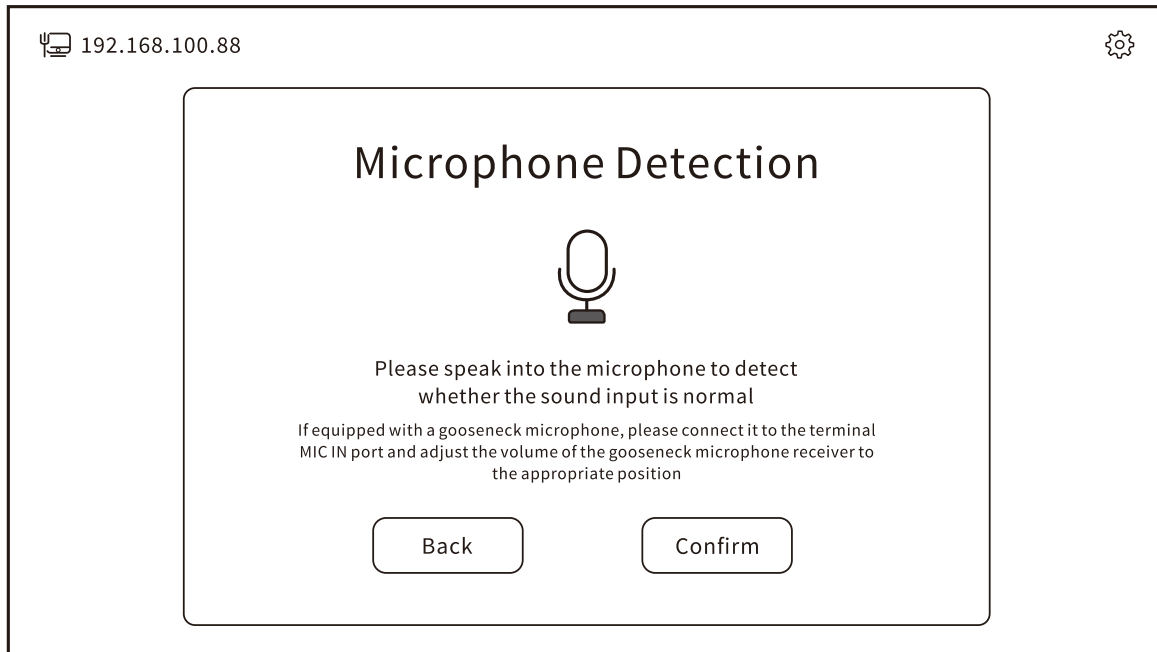
Authentication Username

Back

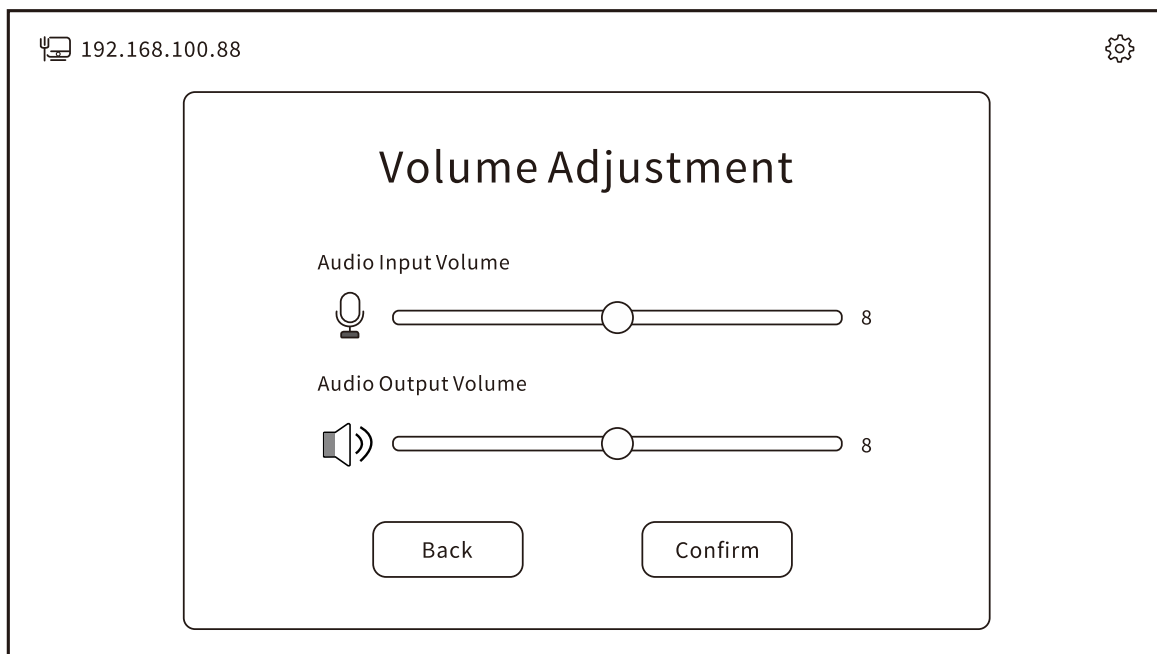
Confirm

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.

192.168.100.88

General

Auto Answer ☐

Venue Name

Back Confirm Skip

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

192.168.100.88

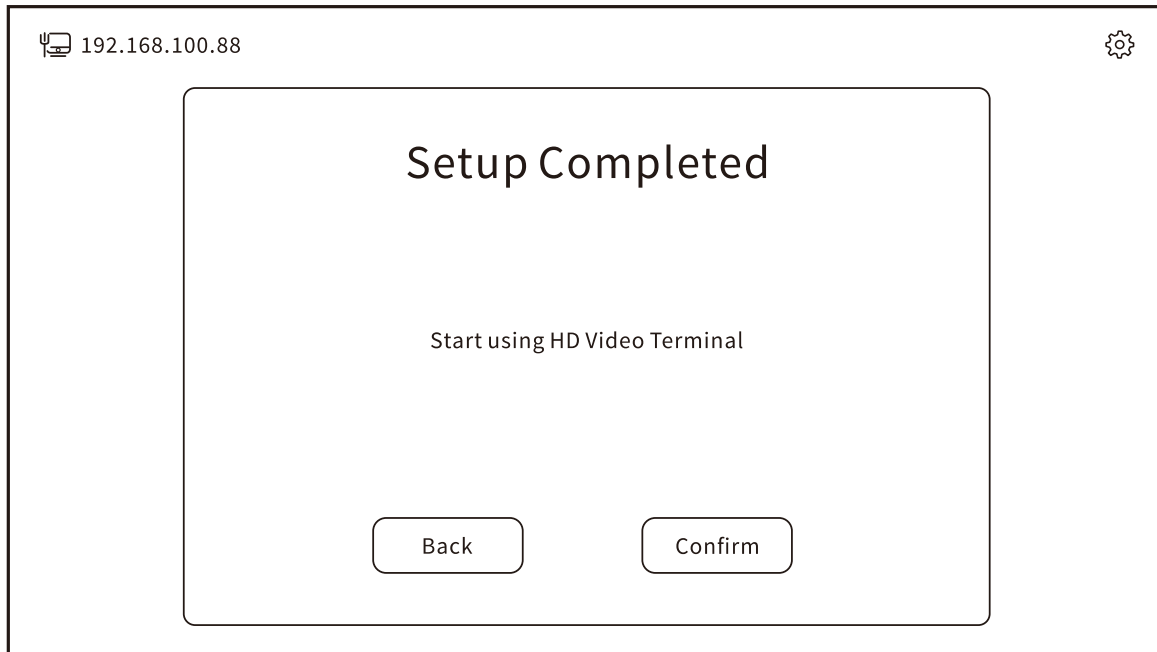
Remote Control Guide

- Switch On/Off, Restart Key: Open or close, restart terminal
- Volume + Key: Increase output volume
- Volume - Key: Reduce output volume
- OK Key: Confirm current selection
- Direction Key: Up/Down/Left/Right
- Call Key: Initiate call/Join conference
- Delete Key: Delete characters
- Hang Up Key: Hang up call/Exit conference
- Dual Stream Key: Turn on/off dual stream; Dual stream preview
- Camera Key: Press to switch far/near camera
- Display Key: Switch layout of the screen
- Key Indicator
- Zoom + Key: Zoom in
- Zoom - Key: Zoom out
- Home Key: Enter the main menu
- Back Key: Return to the previous menu
- Menu Key: Enter the submenu
- Number/Symbol Key: Input numbers and symbols
- Mute Key: Turn on/off the audio input

Notice: The remote control may be affected by strong light, and the working distance is about 10m.

Back Confirm

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 GUI. At the top, there are three status indicators: 1. IP Address (192.168.100.88), 2. H323 Registration Status (H323: 123450), and 3. SIP Registration Status (SIP: 123451). In the center, the system time is displayed as 10:18 AM, with the date 05-24 Wednesday below it. At the bottom, there are two main menu buttons: 5. Meeting (represented by a video camera icon) and 6. More (represented by a square icon with three dots). A callout 4 points to the time display area.

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

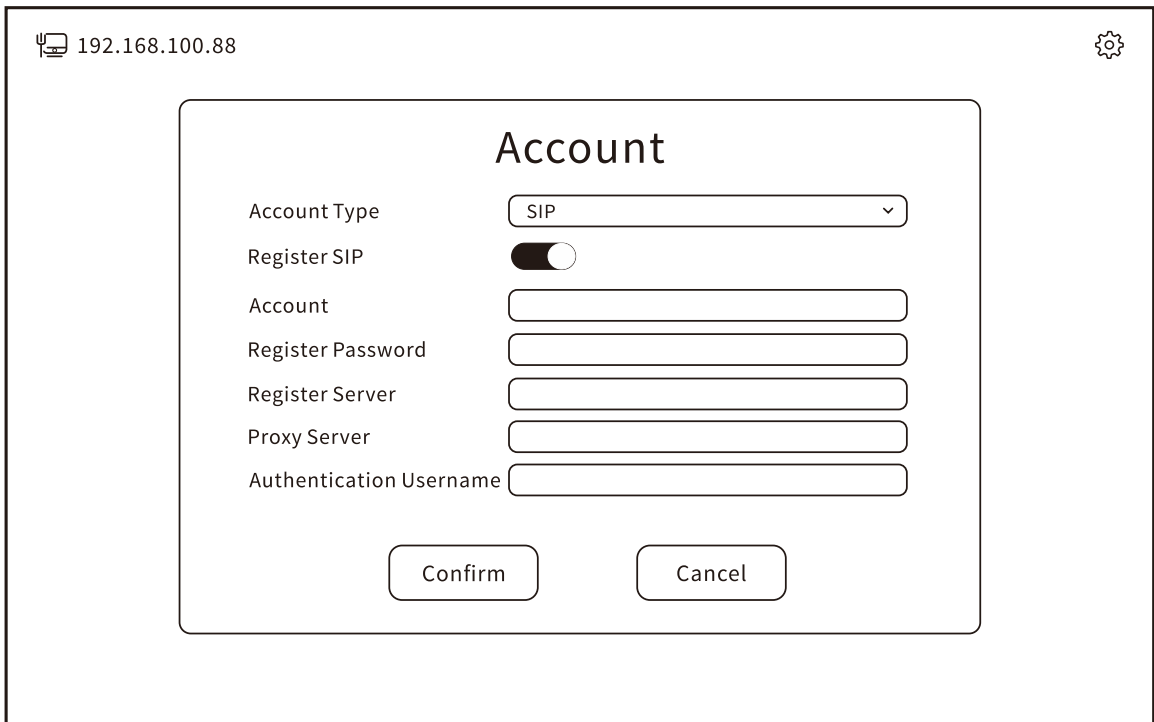
2.3 Register Account

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 shows a web interface for configuring an account. At the top left, there is a phone icon and the IP address 192.168.100.88. At the top right, there is a gear icon. The main content area is titled 'Account'. It contains the following fields and controls:

- Account Type: A dropdown menu with 'SIP' selected.
- 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, there 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.



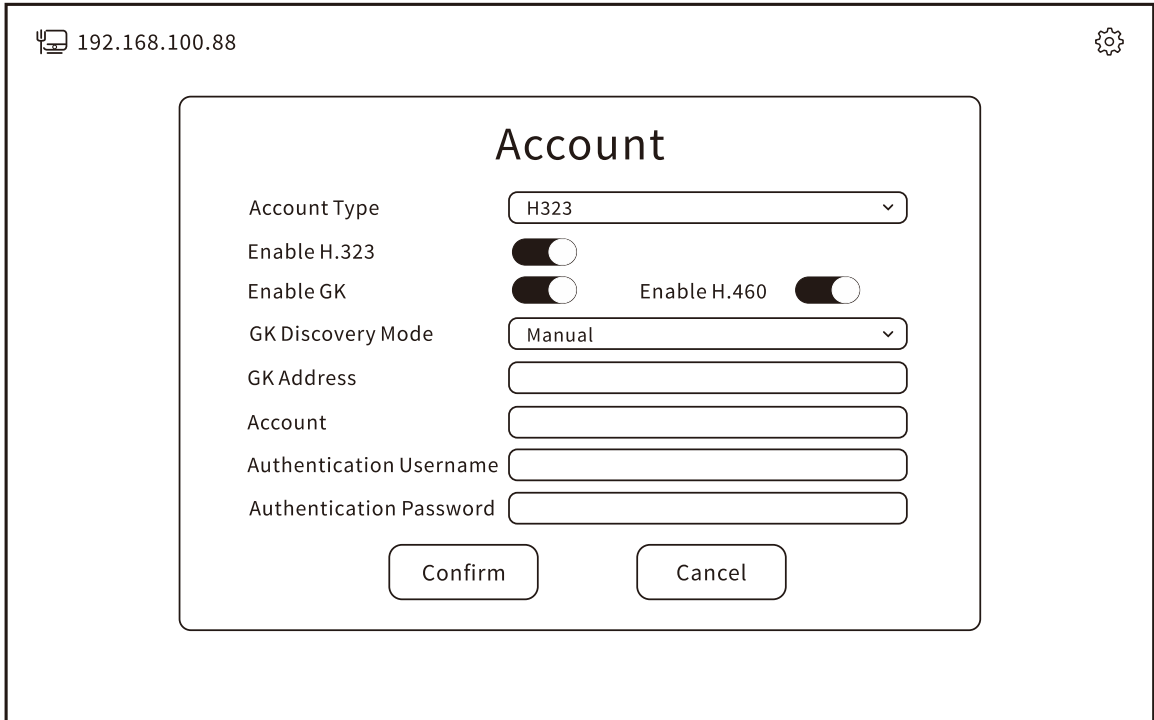
Note

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. The title bar at the top left shows a cursor icon and the IP address '192.168.100.88'. The window title is 'Account'. The configuration options are as follows:

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

At the bottom of the window 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.

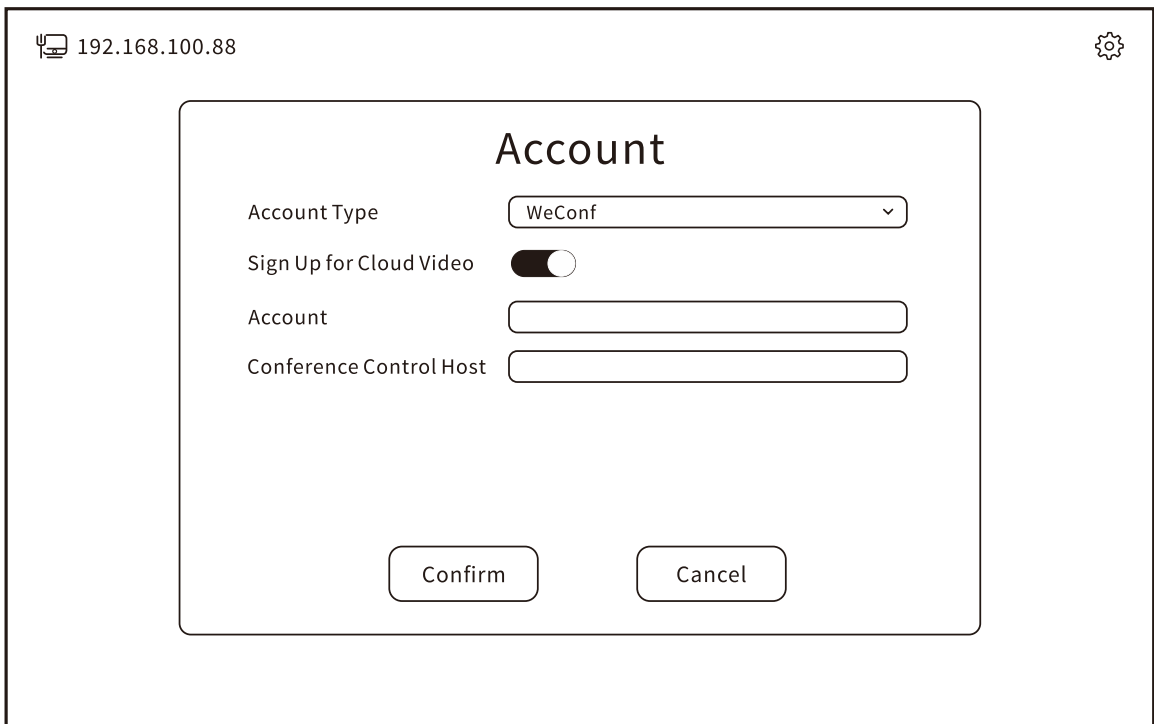
2.3.3 Register WeConf Account (Optional)

➤ 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.

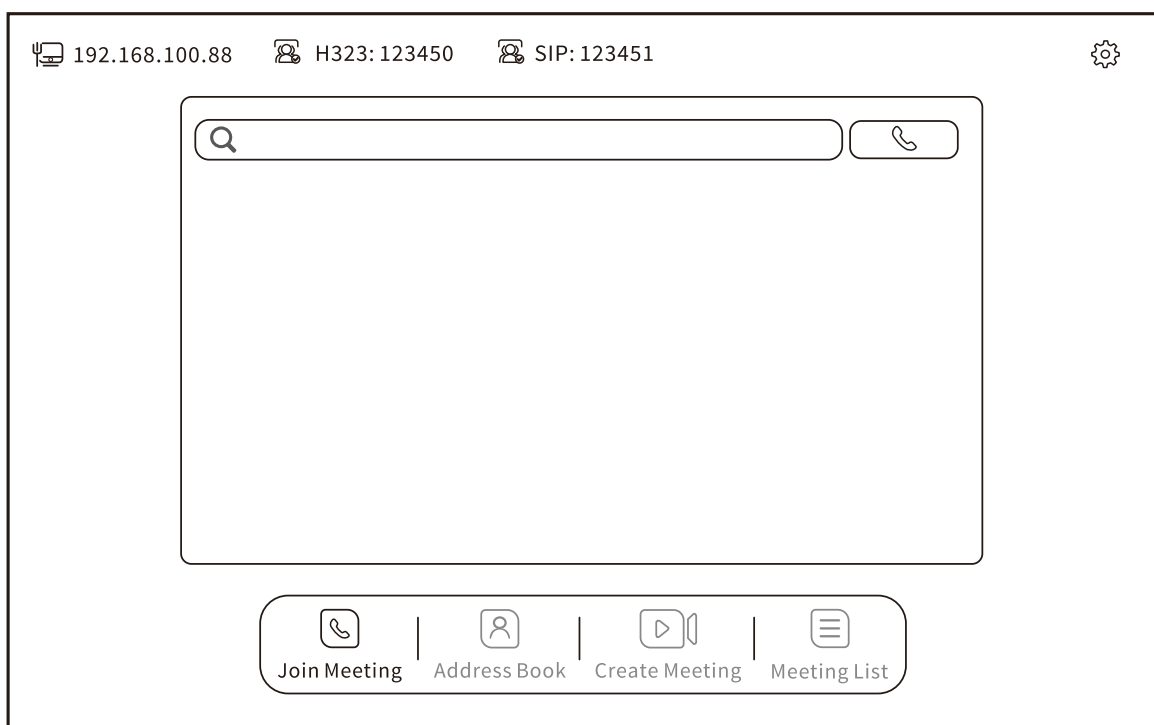
2.4 Join Meeting

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.

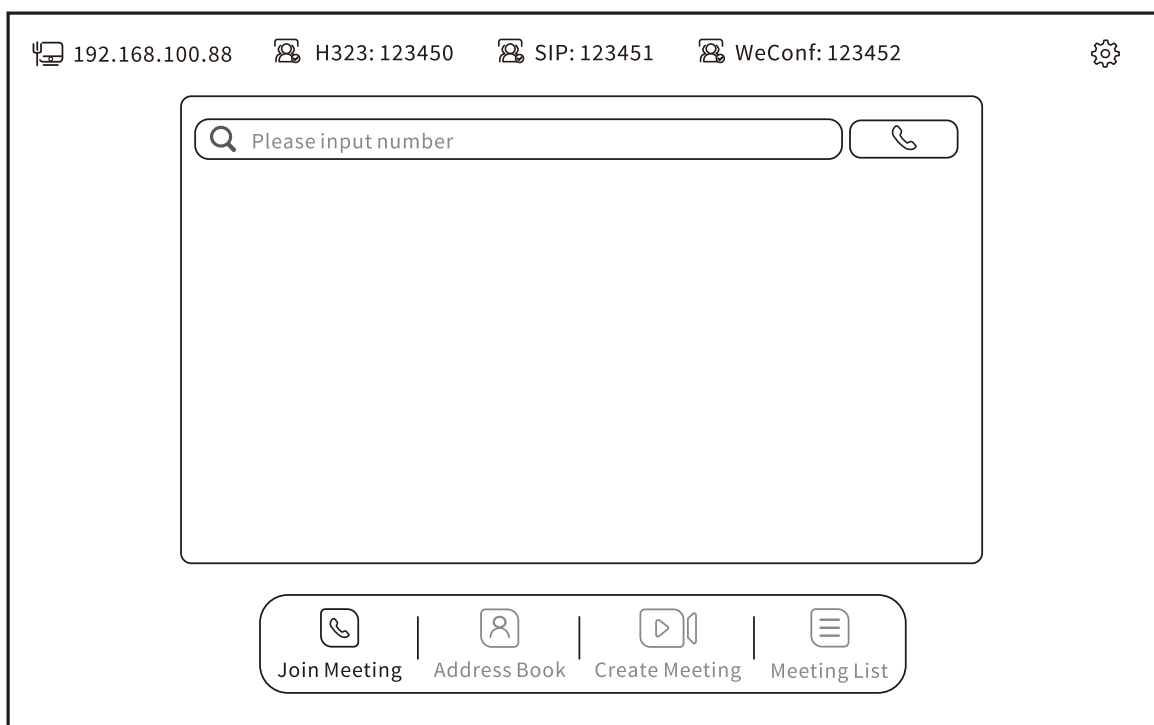
2.4.2 Join Weconf Meeting (Optional)

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

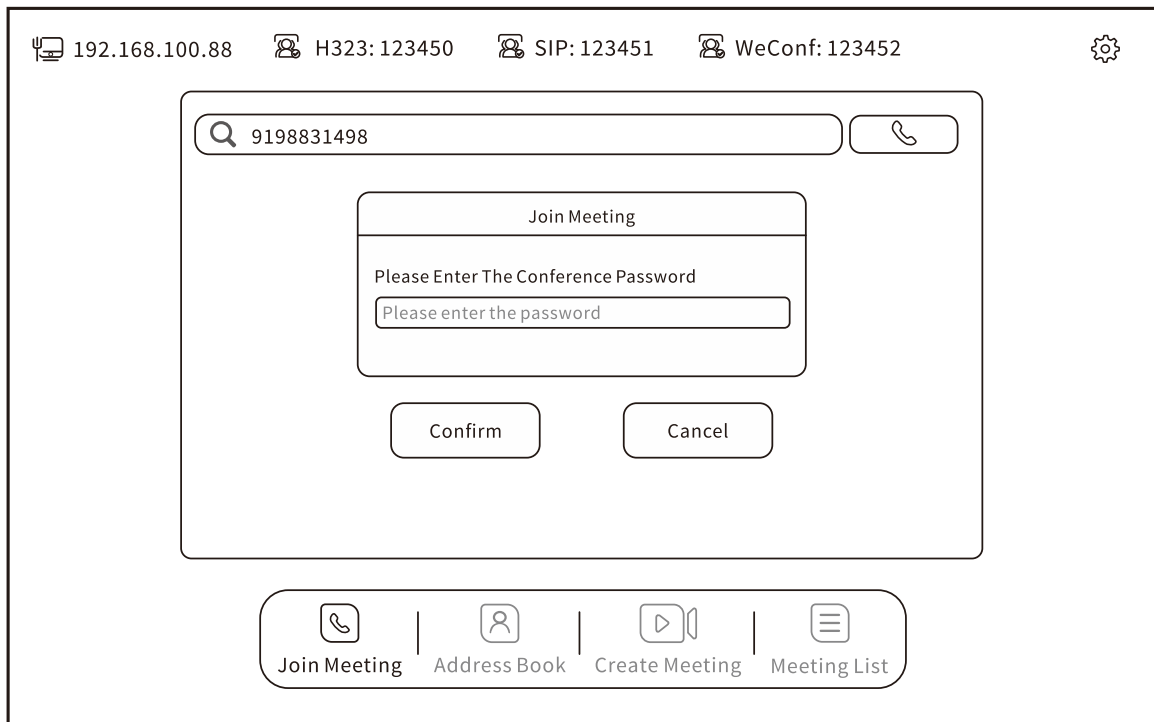
Step 1 On the main menu interface, select “ > Join Meeting”.



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:



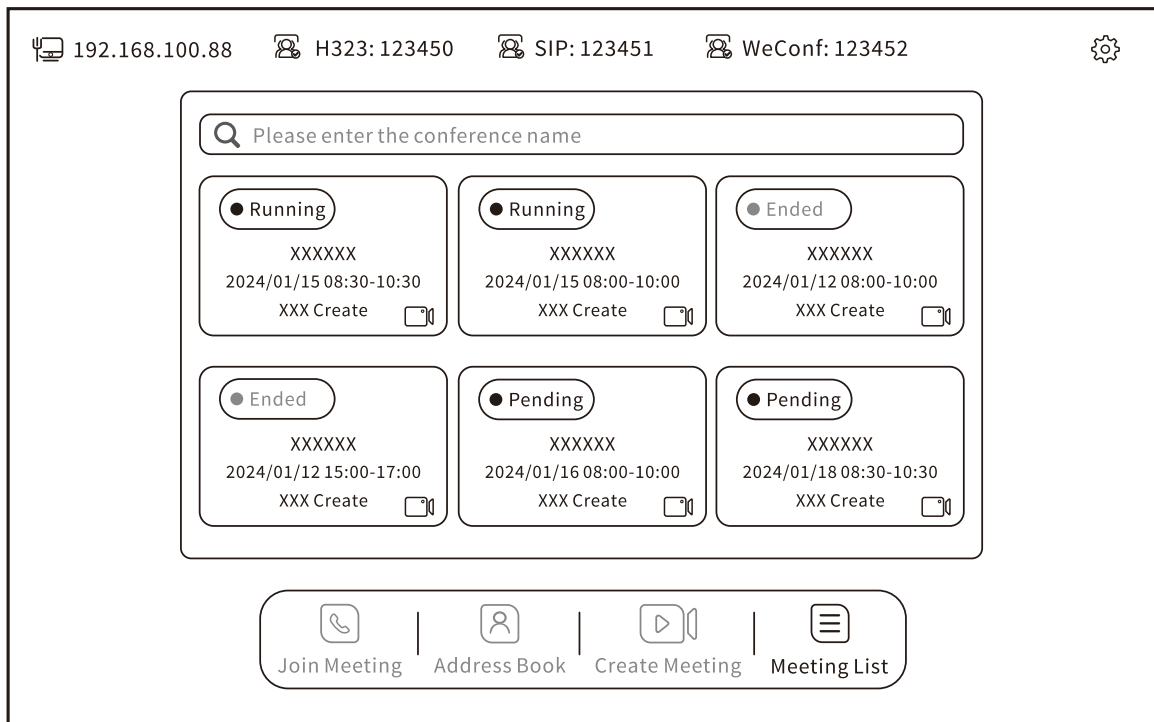
Step 4 Enter the meeting password and select “Confirm” to join the meeting.

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

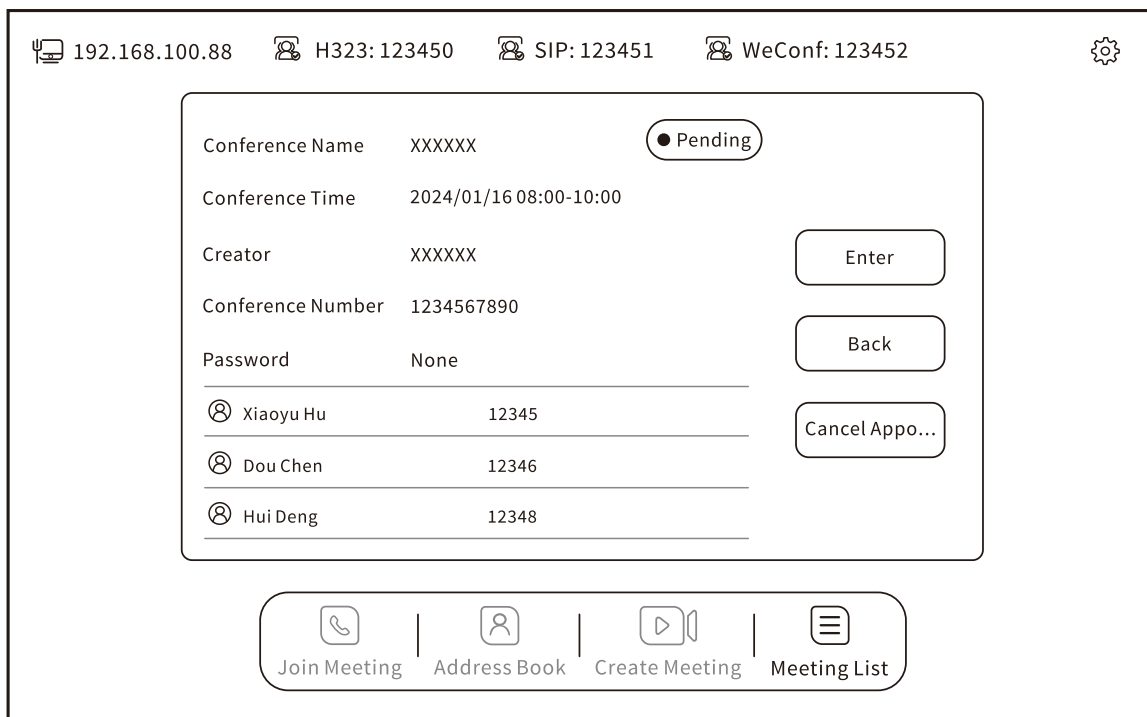
➤ Operating Steps

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 WeConf conference detail interface for an ended meeting. At the top, there are four status bars: a computer icon with IP 192.168.100.88, a phone icon with H323: 123450, a SIP icon with SIP: 123451, and a WeConf icon with WeConf: 123452. A gear icon for settings is in the top right. 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 'Reissue' button. Below the details is a 'Back' button. At the bottom of the main content area is a table of participants:

⊗ Xiaoyu Hu	12345
⊗ Dou Chen	12346
⊗ Hui Deng	12348

At the bottom of the interface is a navigation bar with four icons and labels: 'Join Meeting' (phone icon), 'Address Book' (person icon), 'Create Meeting' (play icon), and 'Meeting List' (list icon).

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 the WeConf application. At the top, the status bar shows the IP address 192.168.100.88, and three contact identifiers: H323: 123450, SIP: 123451, and WeConf: 123452. A settings gear icon is located in the top right corner. The main form area contains the following fields and controls:

- Conference Name:** A text input field with the placeholder 'Conference Name' and a character count of '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, a navigation bar contains four icons with corresponding labels: 'Join Meeting' (phone handset), 'Address Book' (person icon), 'Create Meeting' (play button with handset), 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

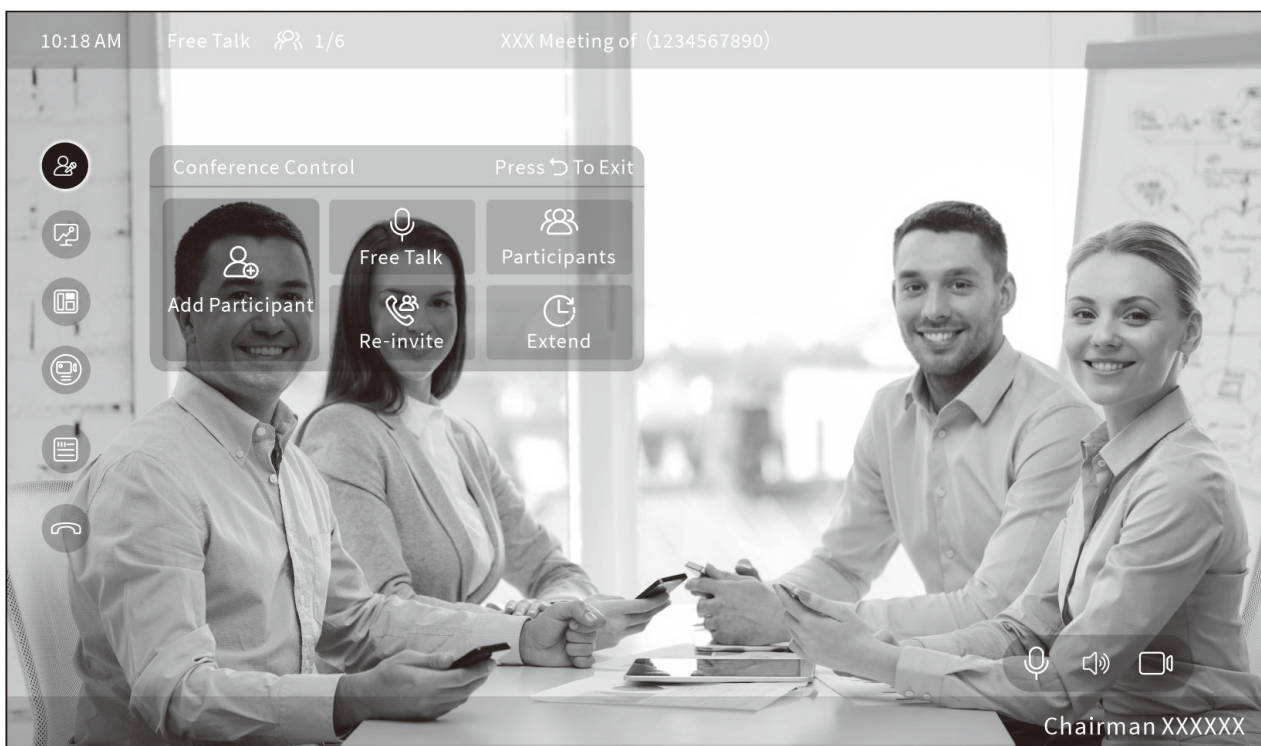
If the incoming call is from a contact stored in the address book, it will display the contact's name and number. Otherwise, only the caller's number will be displayed.

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.

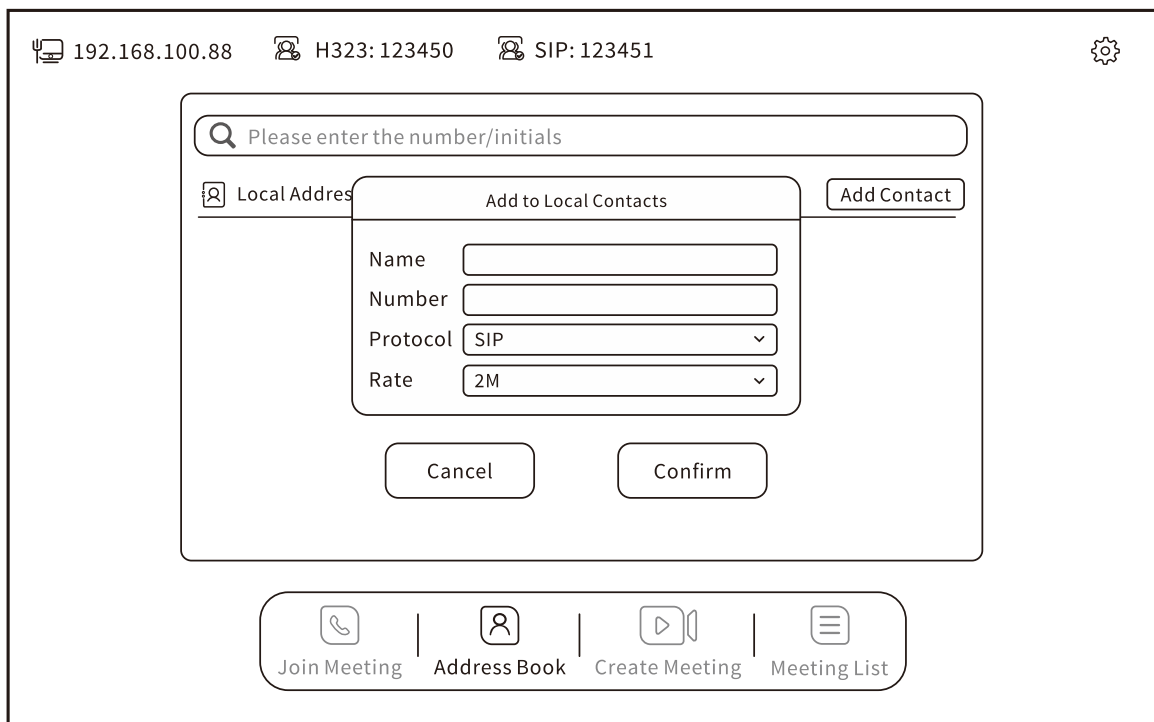
2.7.1 Local Contact

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.

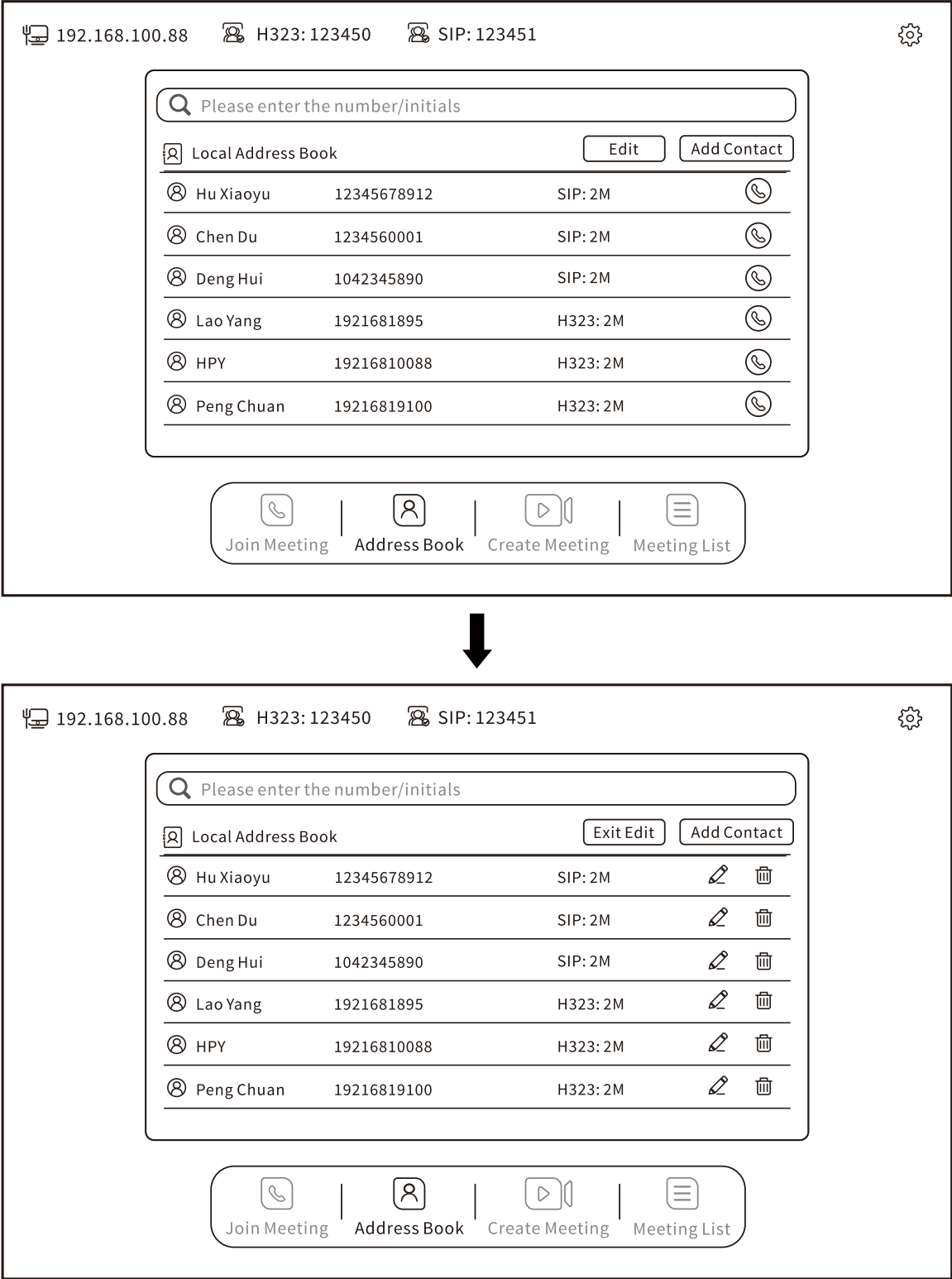
Step 3 Select the Protocol and Rate.

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.

192.168.100.88 H323: 123450 SIP: 123451

Please enter the number/initials

Local Address Book Add to Local Contacts Add Contact

Hu Xiaoyu	Name	Hu Xiaoyu		
Chen Du	Number	12345678912		
Deng Hui	Protocol	SIP		
Lao Yang	Rate	2M		
HPY				
Peng Chuan	19216819100	H323: 2M		

Cancel Confirm

Join Meeting Address Book Create Meeting Meeting List

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”.

192.168.100.88 H323: 123450 SIP: 123451

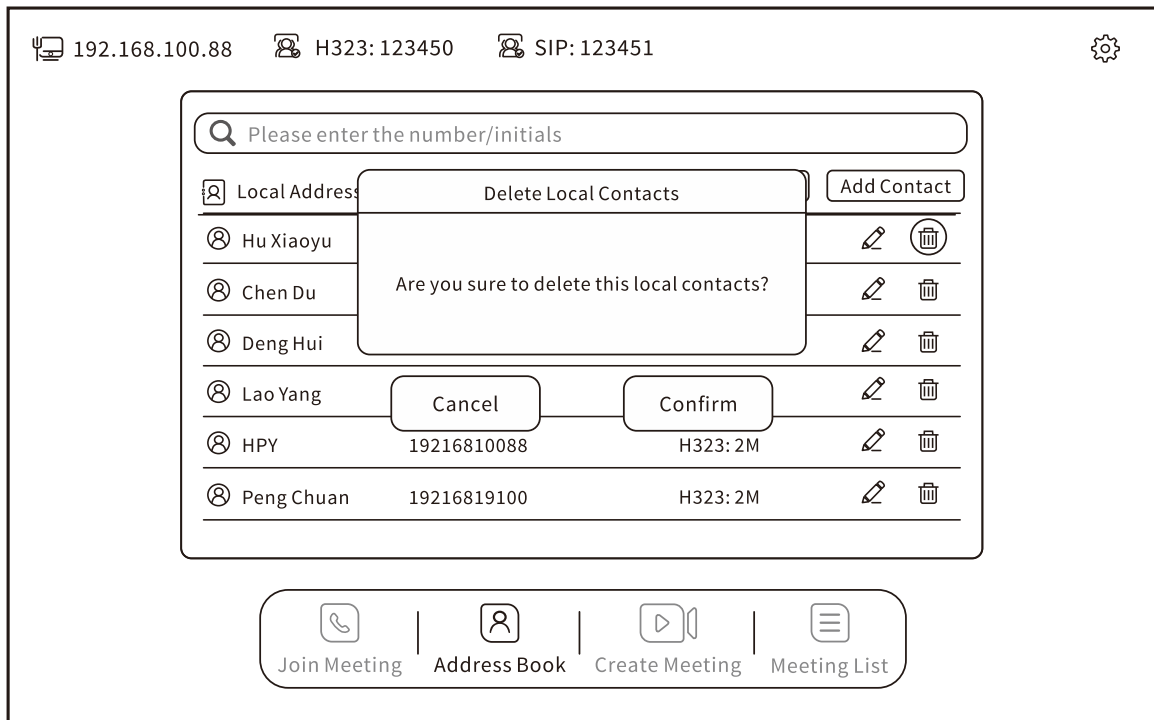
Please enter the number/initials

Local Address Book Exit Edit Add Contact

Hu Xiaoyu	12345678912	SIP: 2M		
Chen Du	1234560001	SIP: 2M		
Deng Hui	1042345890	SIP: 2M		
Lao Yang	1921681895	H323: 2M		
HPY	19216810088	H323: 2M		
Peng Chuan	19216819100	H323: 2M		

Join Meeting Address Book Create Meeting Meeting List

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



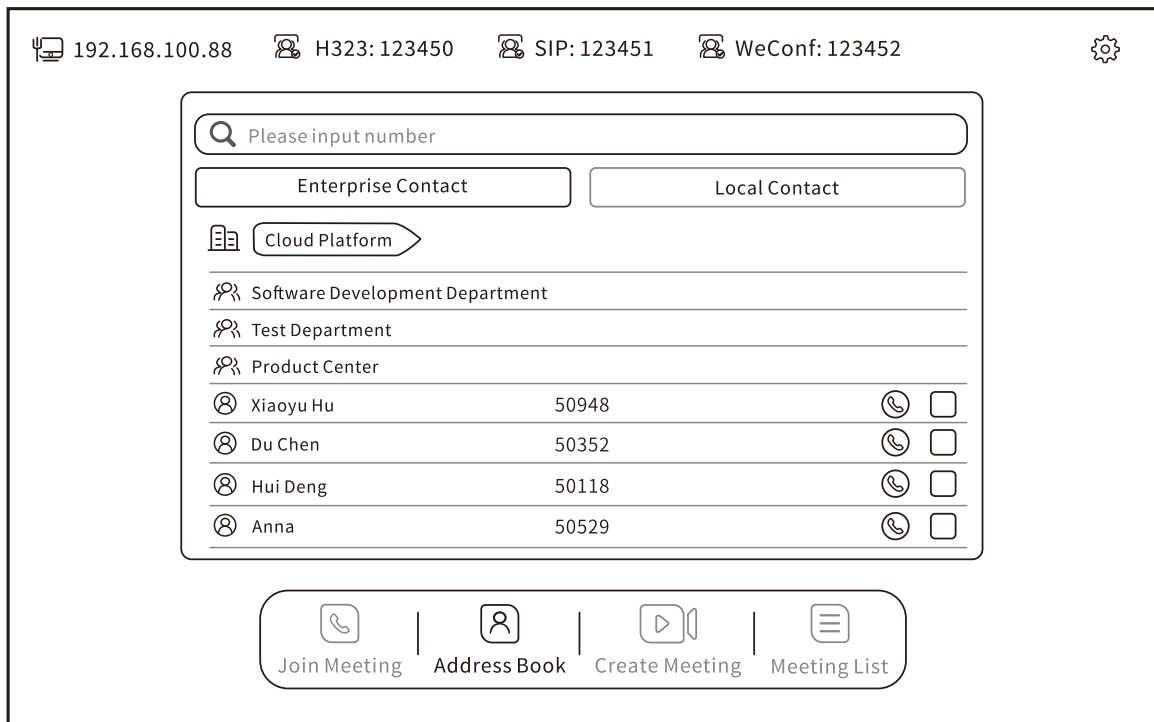
Step 3 Select “Confirm” to delete the contact.

2.7.2 Enterprise Contact (Optional)

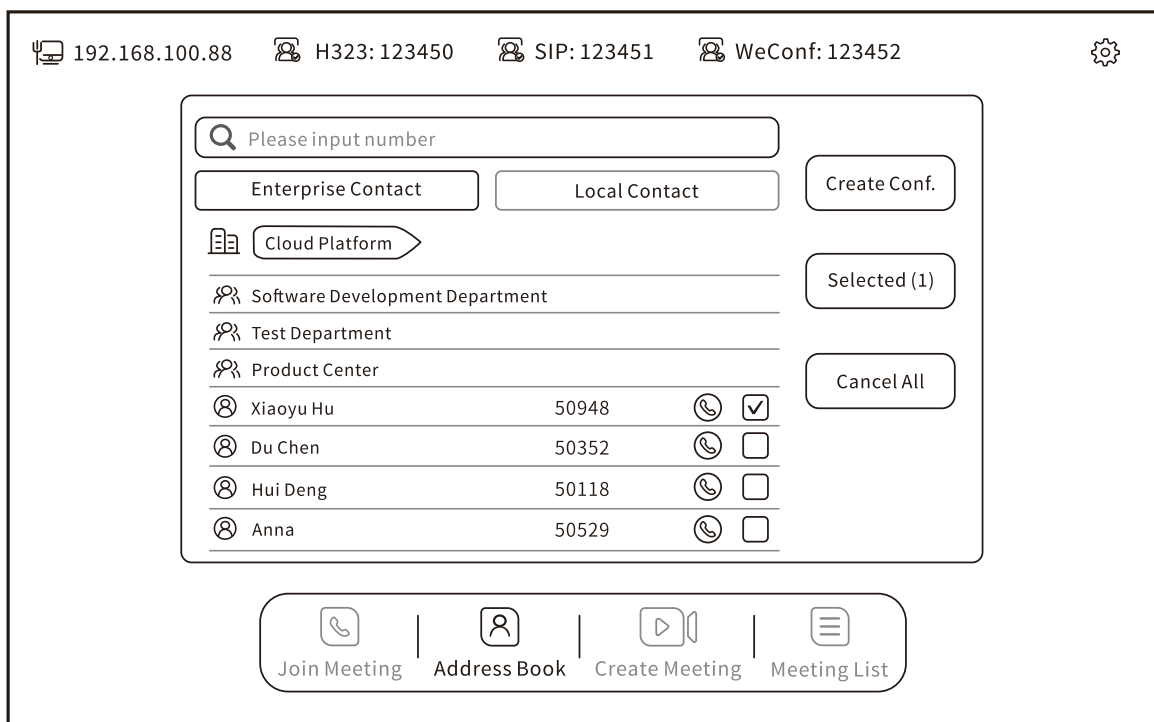
After registering a WeConf account, terminals can automatically download the contact information from the address book server and achieve synchronized updates.

➤ 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.

 192.168.100.88  H323: 123450  SIP: 123451  WeConf: 123452 

Conference Na... 0/30

Conference Type ☒ Immediately ☐ Appointment

Password ☐

Conference Du... 1h 0h 6h

Xiaoyu Hu

Create Conf.

Add Particip...

Select Parti...

 Join Meeting

 Address Book

 Create Meeting

 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.

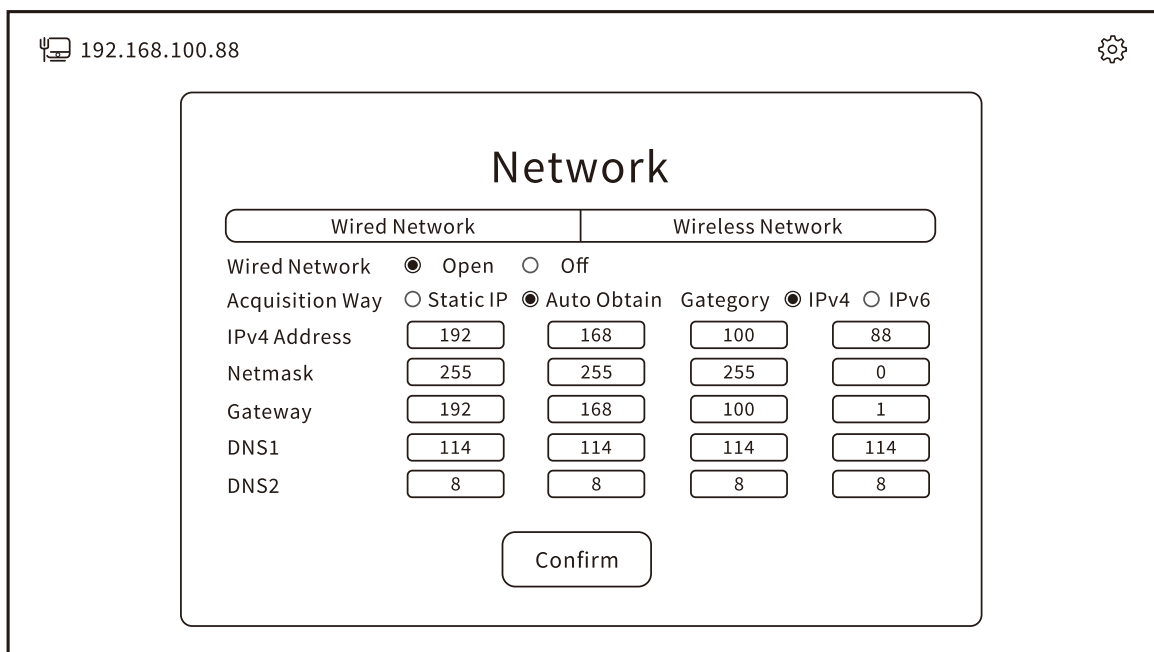
2.9 GUI Setting

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”.



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

Confirm

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	- Auto obtain: The terminal automatically obtains the IP address through the DHCP server. - 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.	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

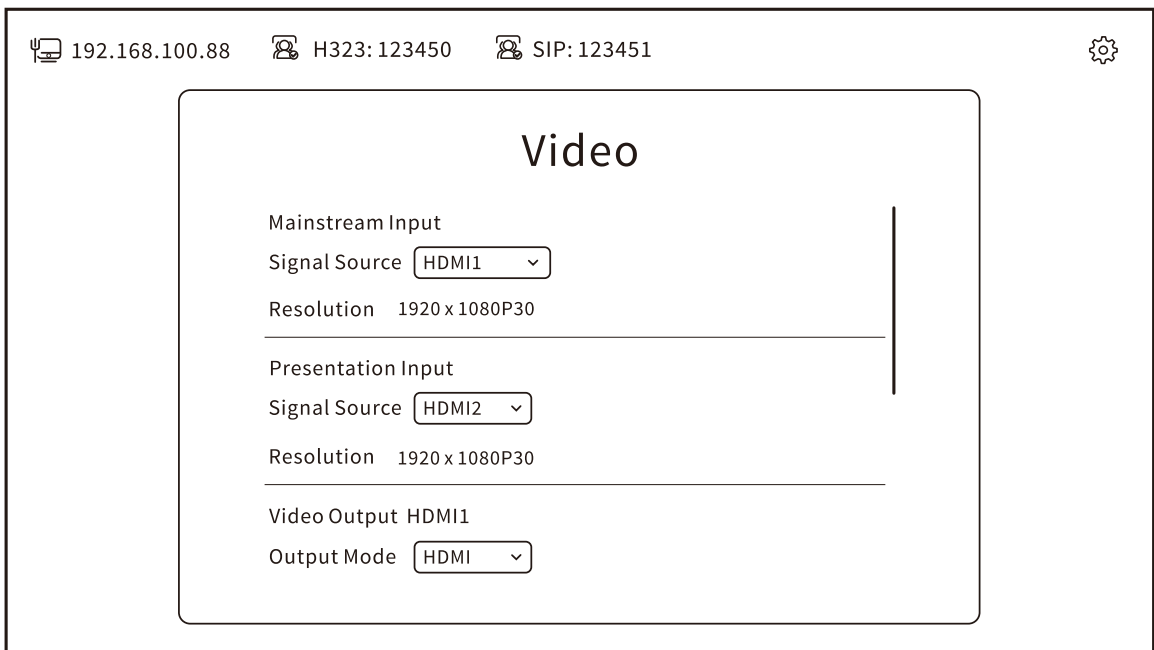
Parameter	Parameter Declaration	Parameter Setting
Netmask	Configure the subnet mask for the terminal.	Default: Auto obtain
Gateway	Configure the gateway address corresponding to this terminal's IP.	Default: Auto obtain
DNS	After the IP address of the DNS server is configured, the domain name can be used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

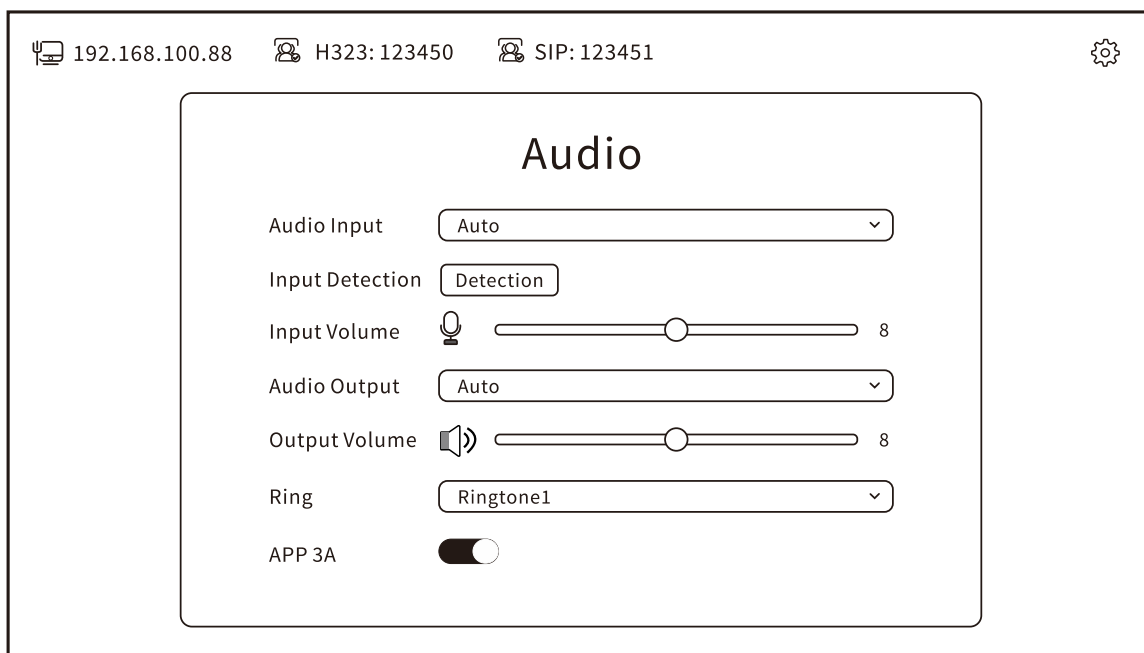
Parameter	Parameter Declaration	Parameter Setting
Presentation Input	Signal source: HDMI1, HDMI2, NET VIDEO1.	Default: HDMI2
	Resolution: Displays the resolution value of the presentation input signal source.	Default: Displays the actual value for the current signal input
Video Output HDMI1/SDI	The default video output mode is HDMI.	Default: HDMI
	Resolution: 1080P60, 720P60 (the output resolution is obtained through EDID negotiation, and different monitors negotiate different resolutions).	Default: 1080P60
Video Output HDMI2	The default output mode is HDMI.	Default: HDMI
	Resolution: 1080P60, 720P60 (the output resolution is obtained through EDID negotiation, and different monitors negotiate different resolutions).	Default: 1080P60
Video Output HDMI3	The default output mode is HDMI.	Default: HDMI
	Resolution: 1080P60, 720P60 (the output resolution is obtained through EDID negotiation, and different monitors negotiate different resolutions).	Default: 1080P60
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

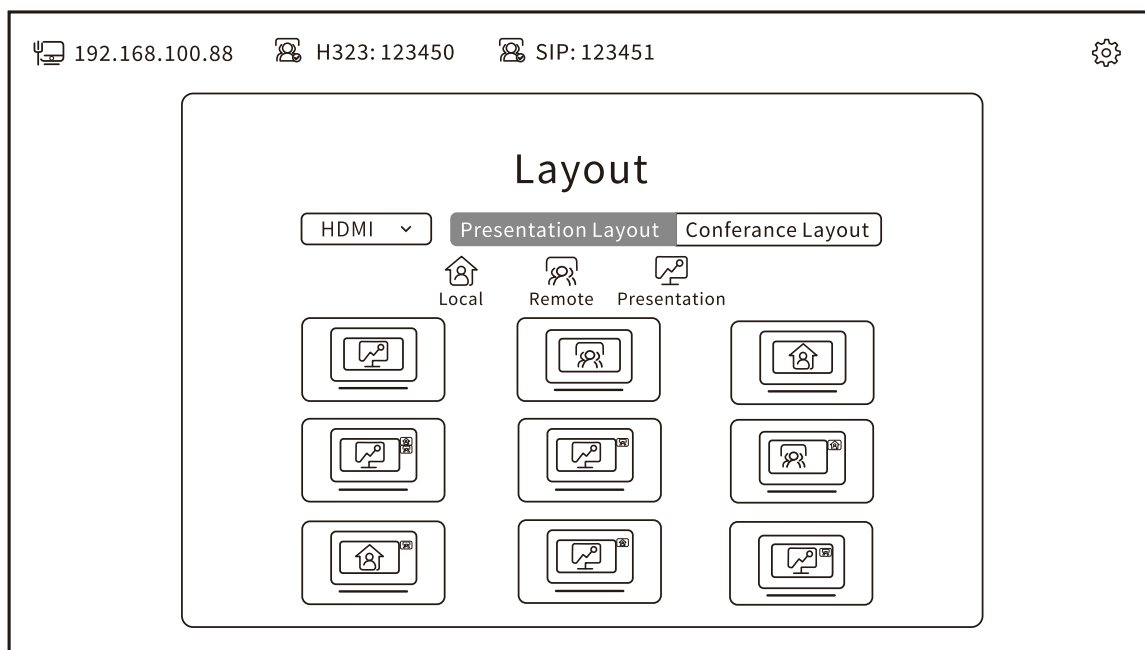
Parameter	Parameter Declaration	Parameter Setting
HTTPS Access	Enable/disable HTTPS Access right (Effective when WEB access is enabled).	Default: Enabled
vTouch Access	Enable/disable the vTouch network access right (vTouch access will take effect after the next restart).	Default: Disabled
SIP Transmission 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.

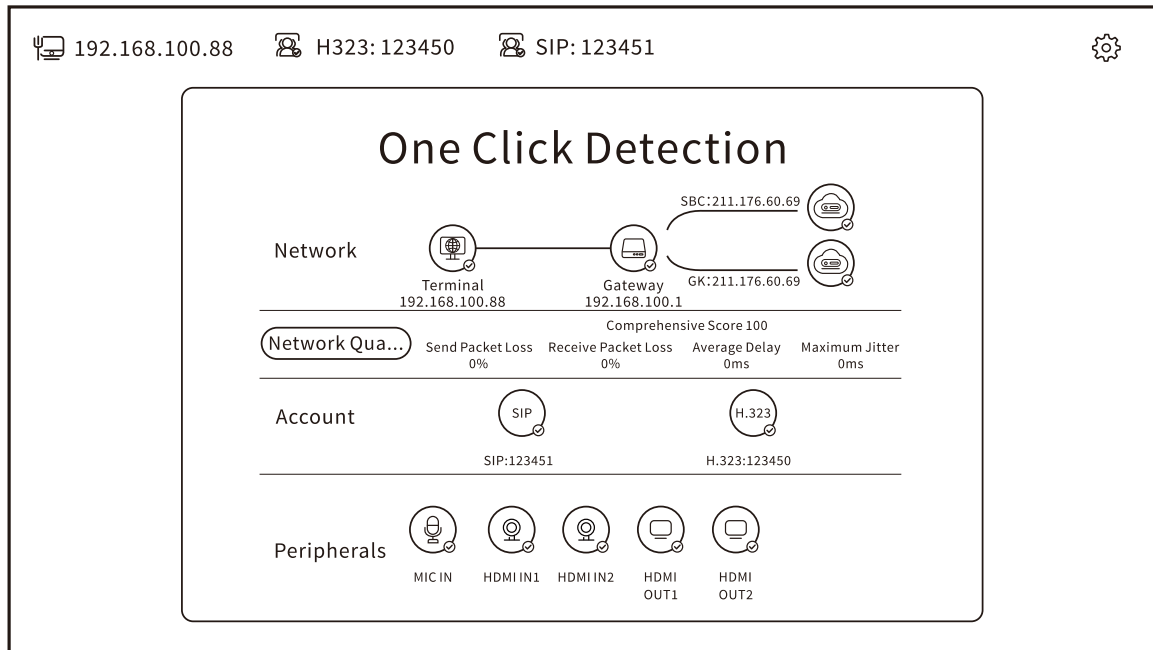
Parameter	Parameter Declaration
Layout Output Interface	Select the video output interface for switching layout.
Layout Options	Select the layout option: Presentation Layout, Conference Layout.
Presentation Layout	Configure the presentation layouts.
Conference Layout	Configure the conference Layouts.

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

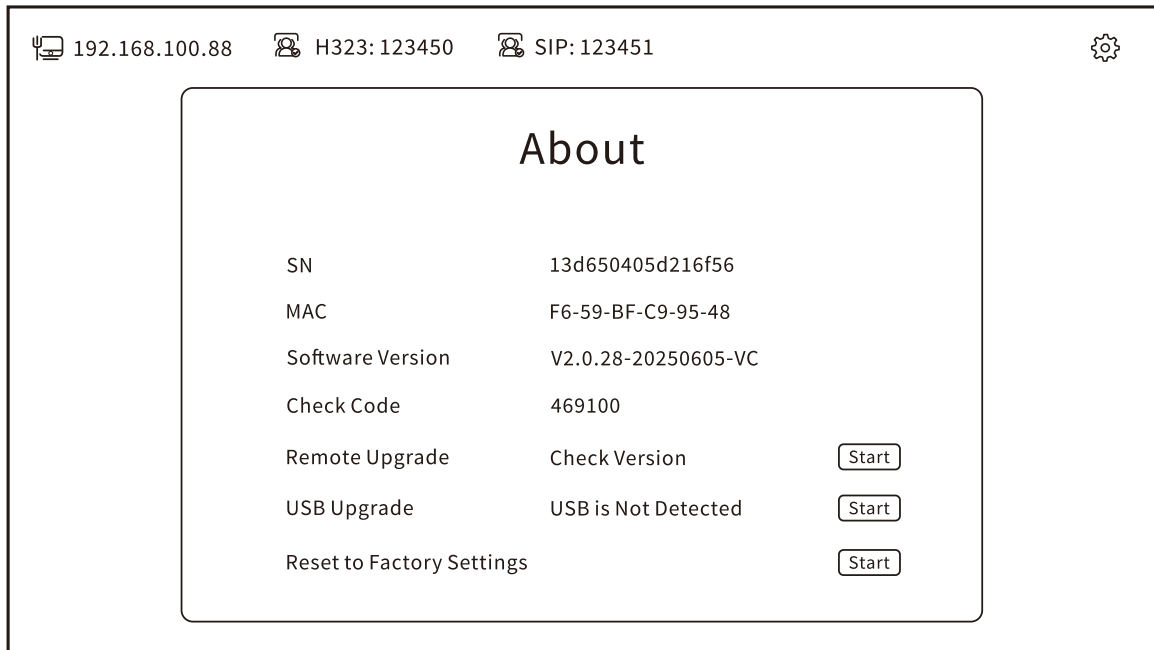
Upgrade Mode: USB Upgrade, Remote Upgrade.

- 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.

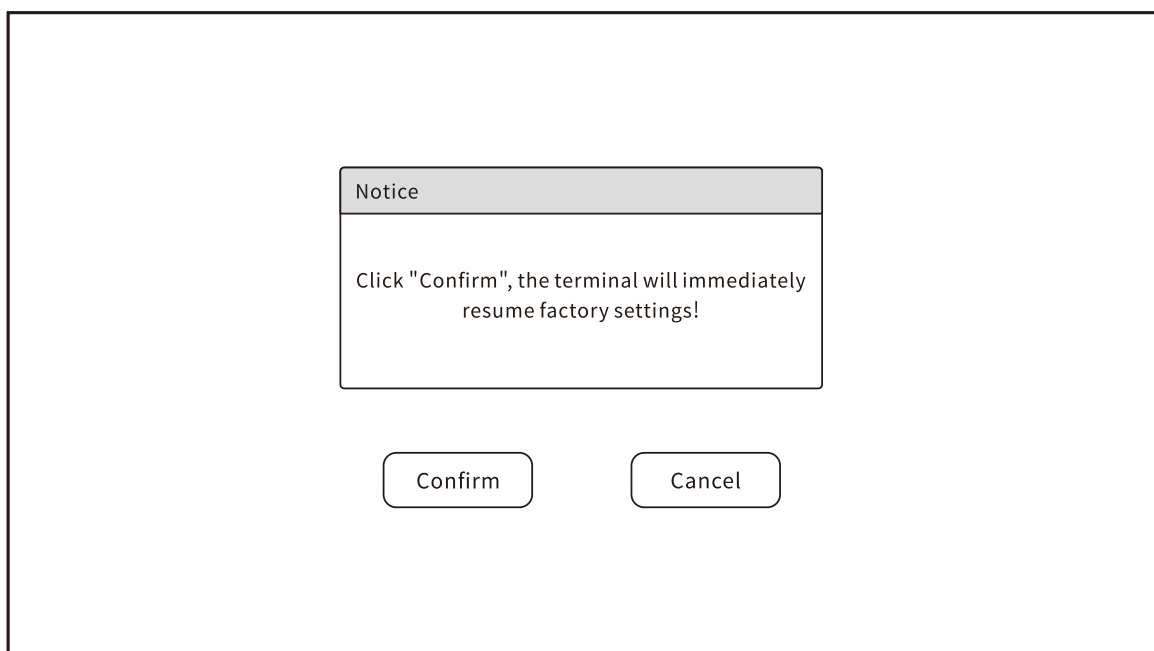
2.9.7.2 Reset to Factory Settings

➤ 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



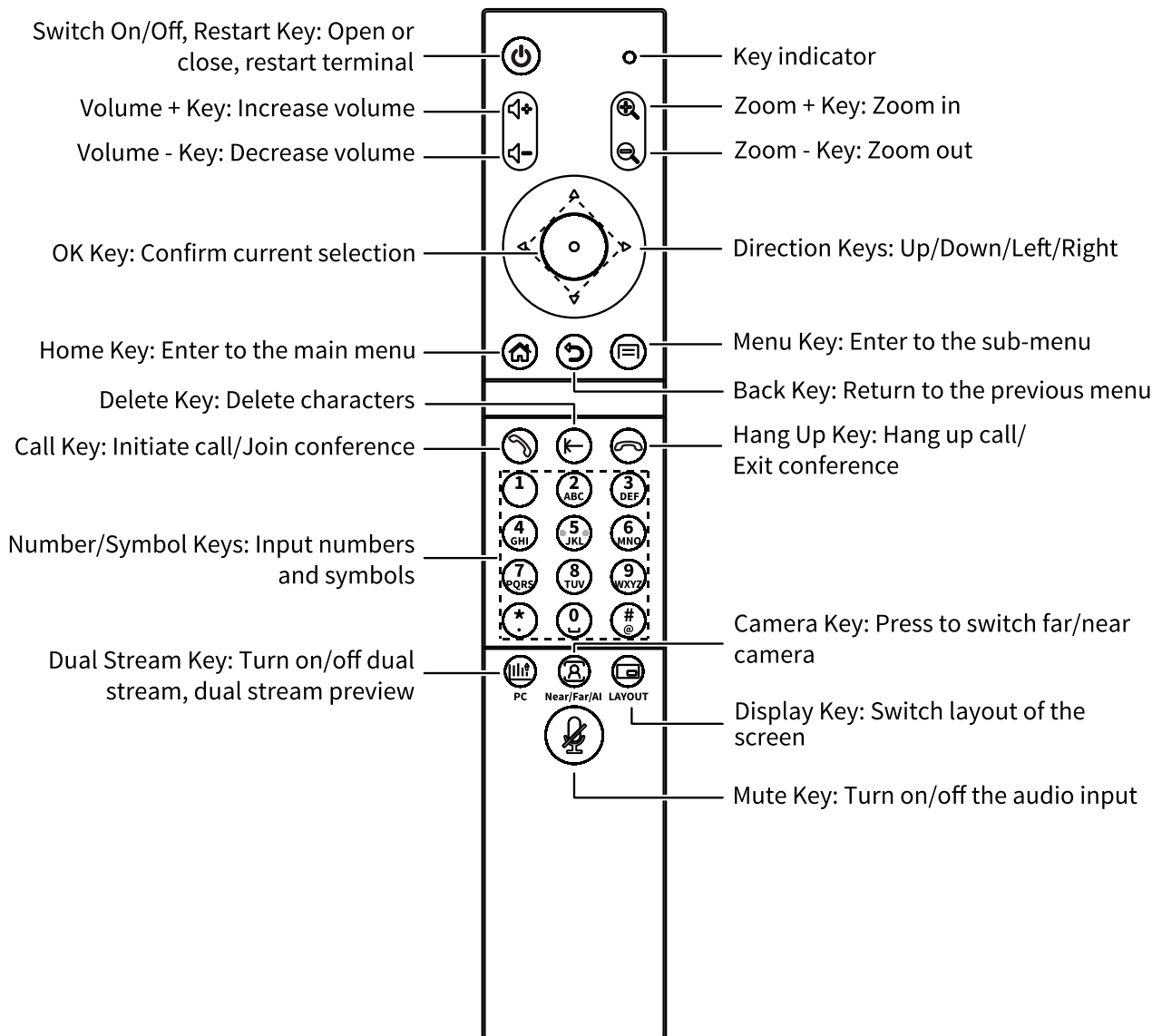
Step 3 Select “Confirm” to immediately restore the factory settings and restart the terminal.



Notice

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

2.10 Remote Control



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

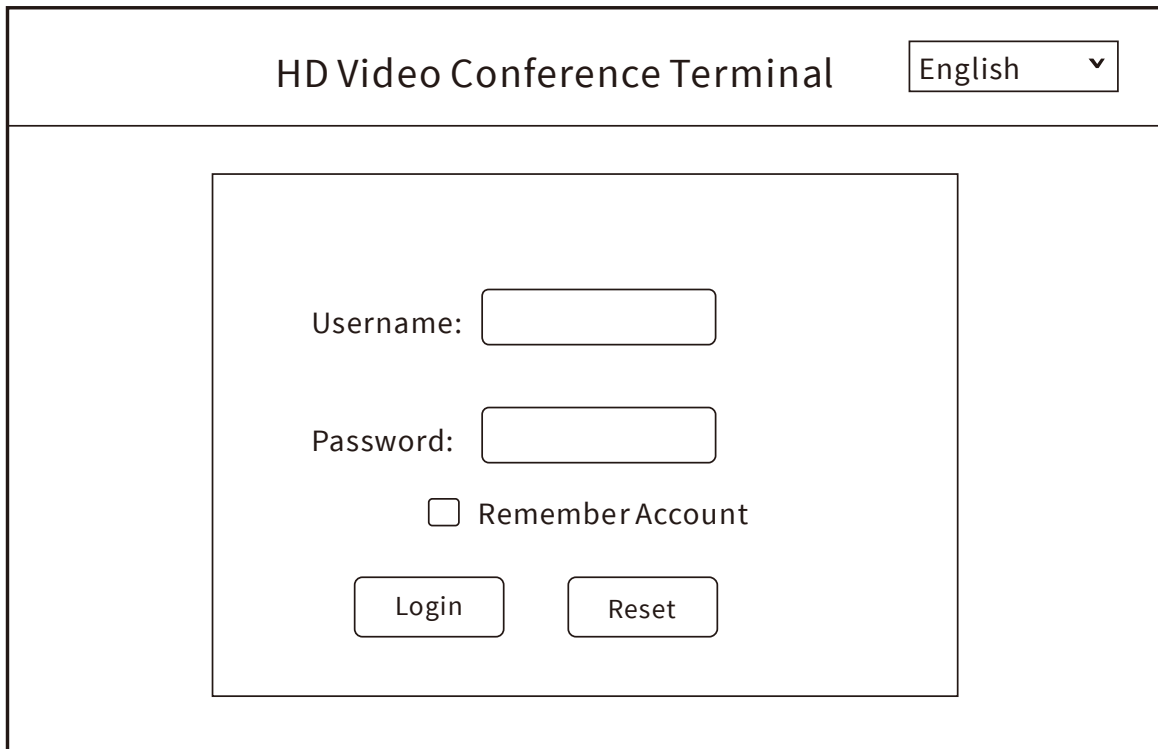
Instruction of Remote Control Shortcut Key:

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).



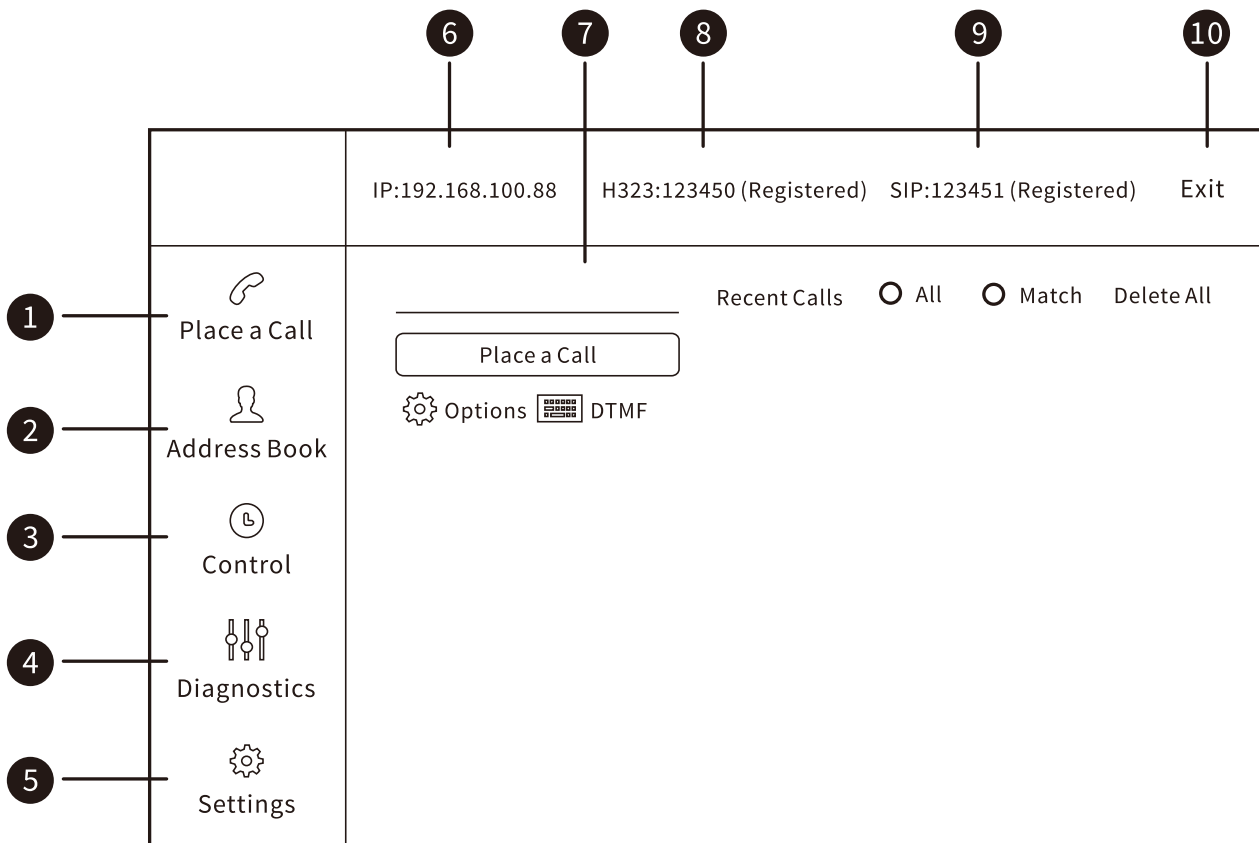
HD Video Conference Terminal English ▼

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).



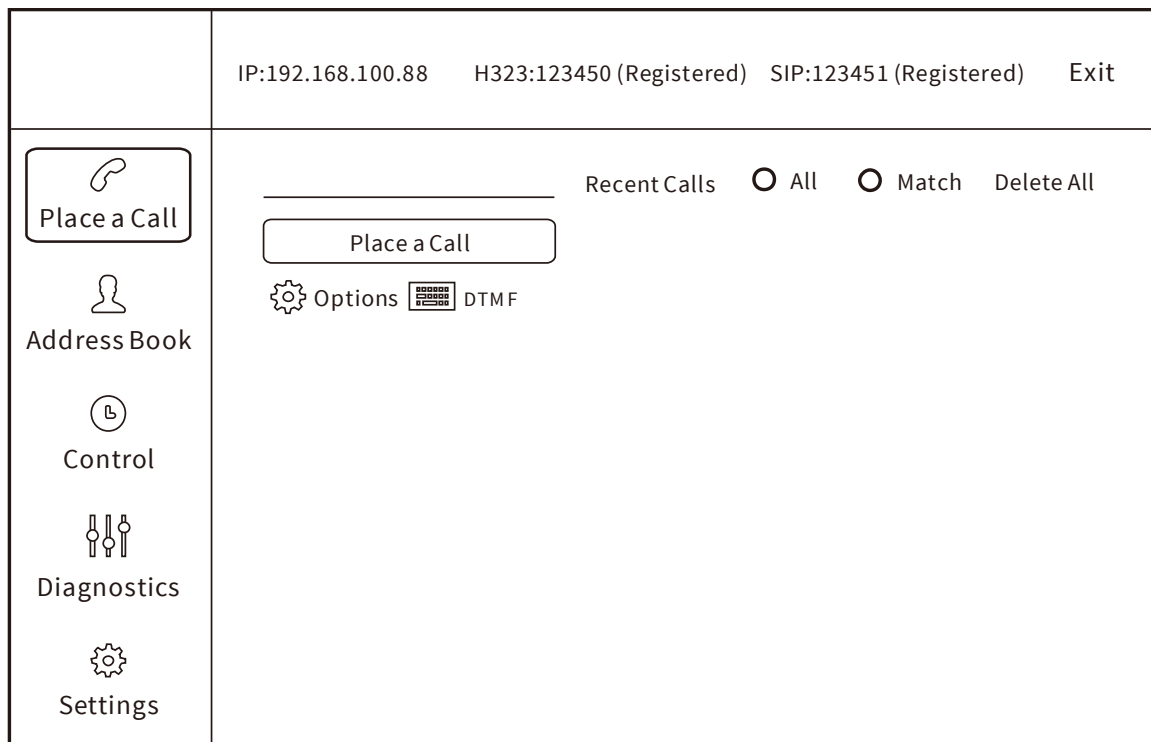
Number	Name	Explain
1	Place a Call	Move the cursor to select and enter the Place a call menu page to configure the parameters.
2	Address Book	Move the cursor to select and enter the address book menu page to configure parameters.
3	Control	Move the cursor to select and enter the control menu page to 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		
 Place a Call  Address Book  Control  Diagnostics  Settings	 Presentation  Camera Control  Audio Control  Record Control  Switch Video Source  Picture Switching  Conference Control  Conference Lock  Power Control	Presentation Presentation Preview	☒ ☒

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		
Place a Call Address Book Control Diagnostics Settings	Recent Calls ☒ All ☐ Match Delete All Place a Call Options DTMF F-Yuan (sip:192.168.19.68) 2022/4/12 15:30:05 PengChuang (sip:192.168.18.108) 2022/4/10 09:15:28 192.168.3.192 (sip:192.168.3.192) 2022/4/08 16:58:52		
	Previous Next Page Page 1 /Total 1		

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.

Place a Call

Address Book

Control

Diagnostics

Settings

IP:192.168.100.88 H323:123450 (Registered) SIP:123451 (Registered) Exit

F-Yuan

Recent Calls ☐ All ☒ Match Delete All

Place a Call

Options

DTMF

F-Yuan (sip:192.168.19.68)
2022/4/12 15:30:05

F-Yuan (sip:192.168.19.68)
2022/4/10 09:15:28

Previous

Next Page

Page 1 /Total 1

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”.

43

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



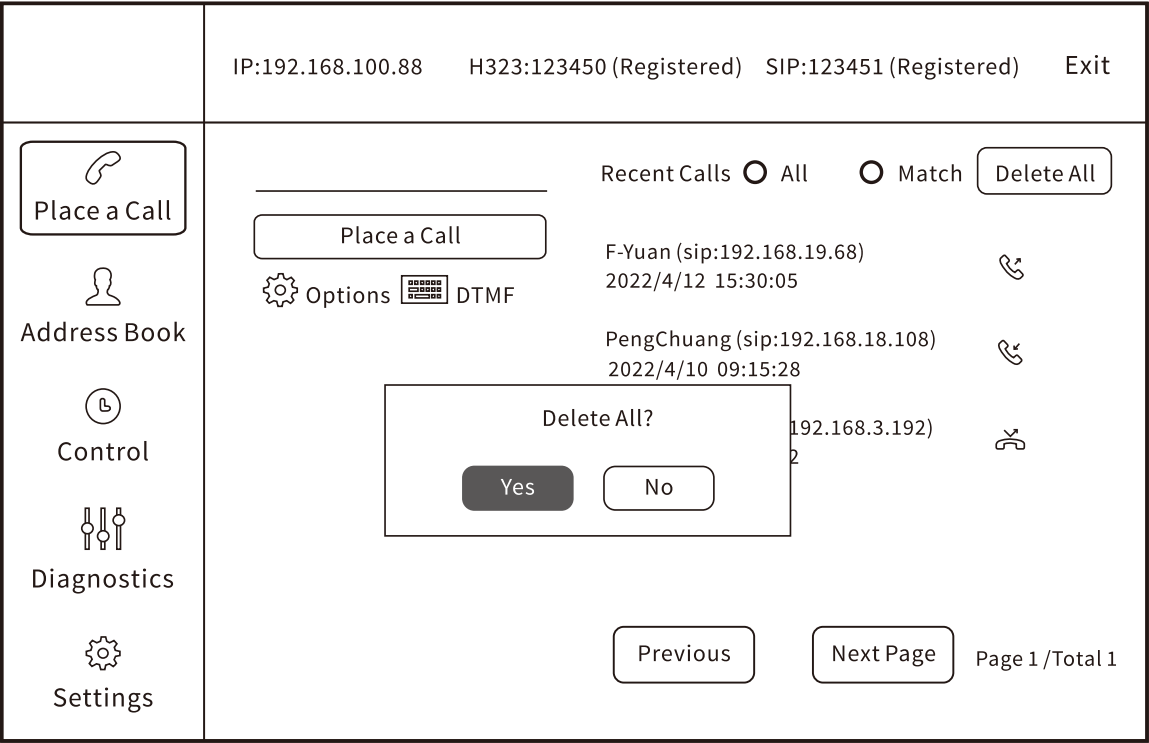
	Ip:192.168.100.88 H323:123450 (Registered) Sip:123451 (Registered) Exit
Place a Call Address Book Control Diagnostics Settings	192.168.3.192 Place a Call Options DTMF More Info Terminal Name: 192.168.3.192 Terminal Address: 192.168.3.192 Hang Up Reason: Far Exit Call Rate: 1920kbps Protocol: H323 Category: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

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.

	IP:192.168.100.88 H323:123450 (Registered) SIP:123451 (Registered) Exit
 Place a Call  Address Book  Control  Diagnostics  Settings	< Local >      Search For Contacts All  ☒ All Add Avenue Groups Default Name: Address: Protocol < H.323 > Rate < 2Mbps > OK Back

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.

	IP:192.168.100.88 H323:123450 (Registered) SIP:123451 (Registered) Exit
 Place a Call  Address Book  Control  Diagnostics  Settings < Local >  Search For Contacts All  F-Yuan 192.168.19.68  PengChuang 192.168.18.108 Edit Avenue Groups Default Name: F-Yuan Address: 192.168.19.68 Protocol < SIP > Rate < 2Mbps > Place a Call Delete Save Back	

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”.

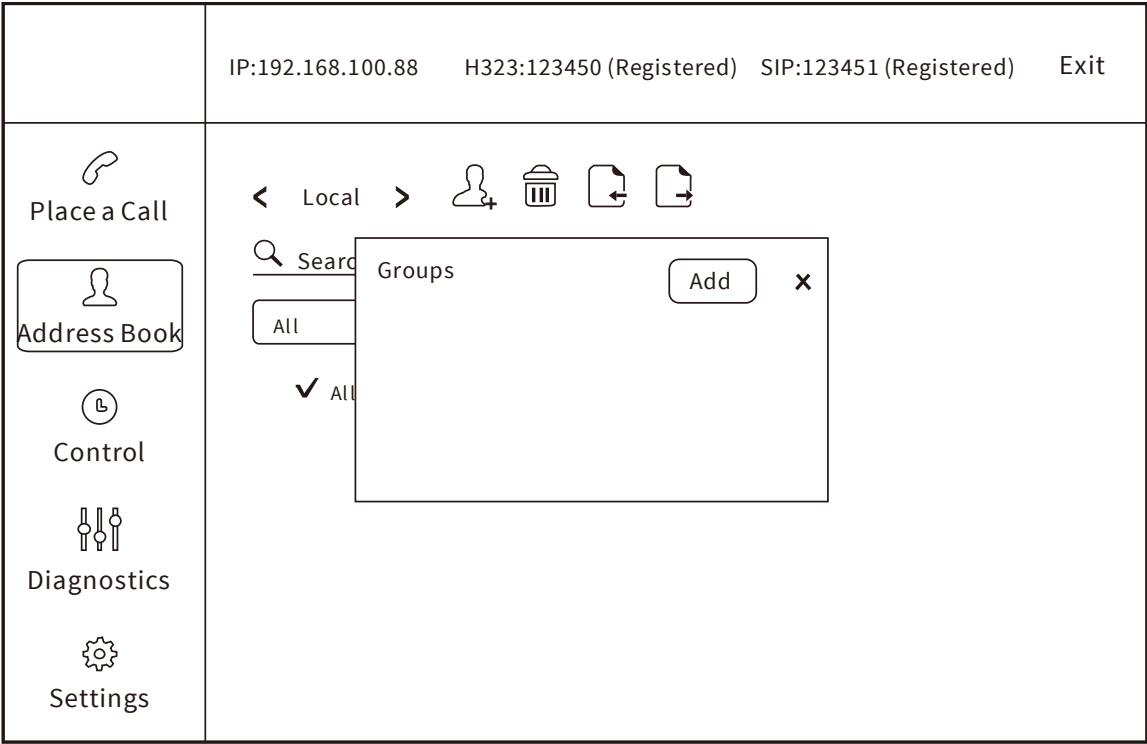
3.5.3 Management Group

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.



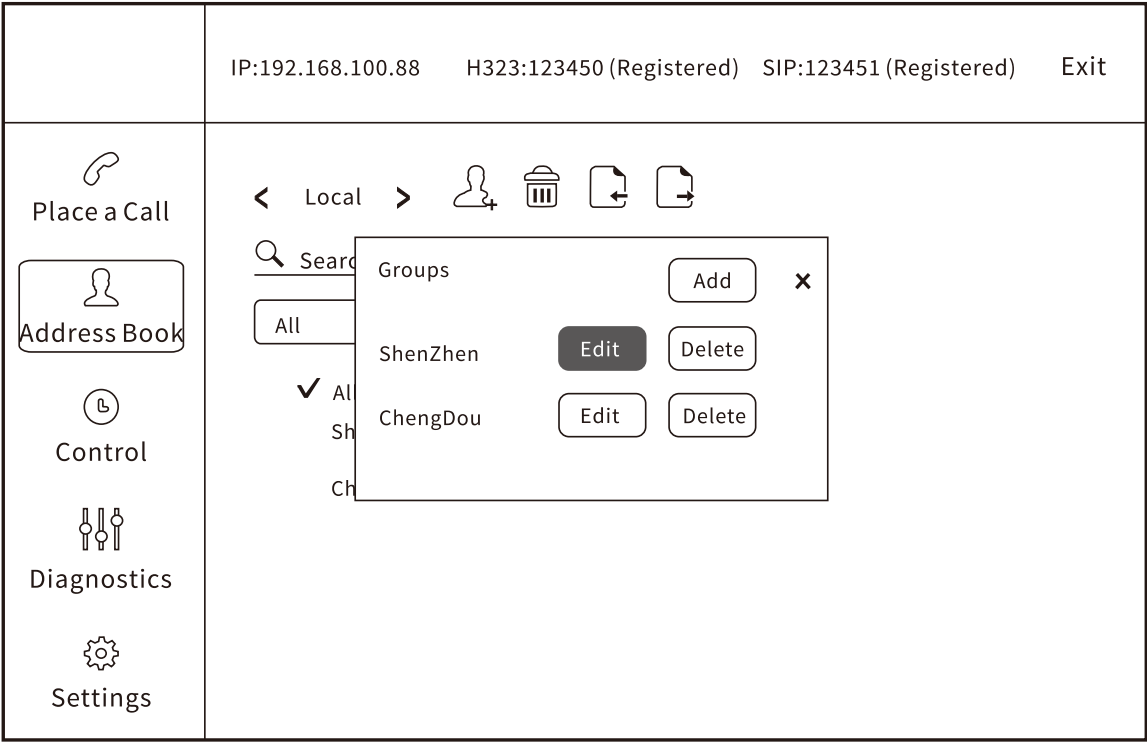
Step 2 Select “Add” to create a new grouping.

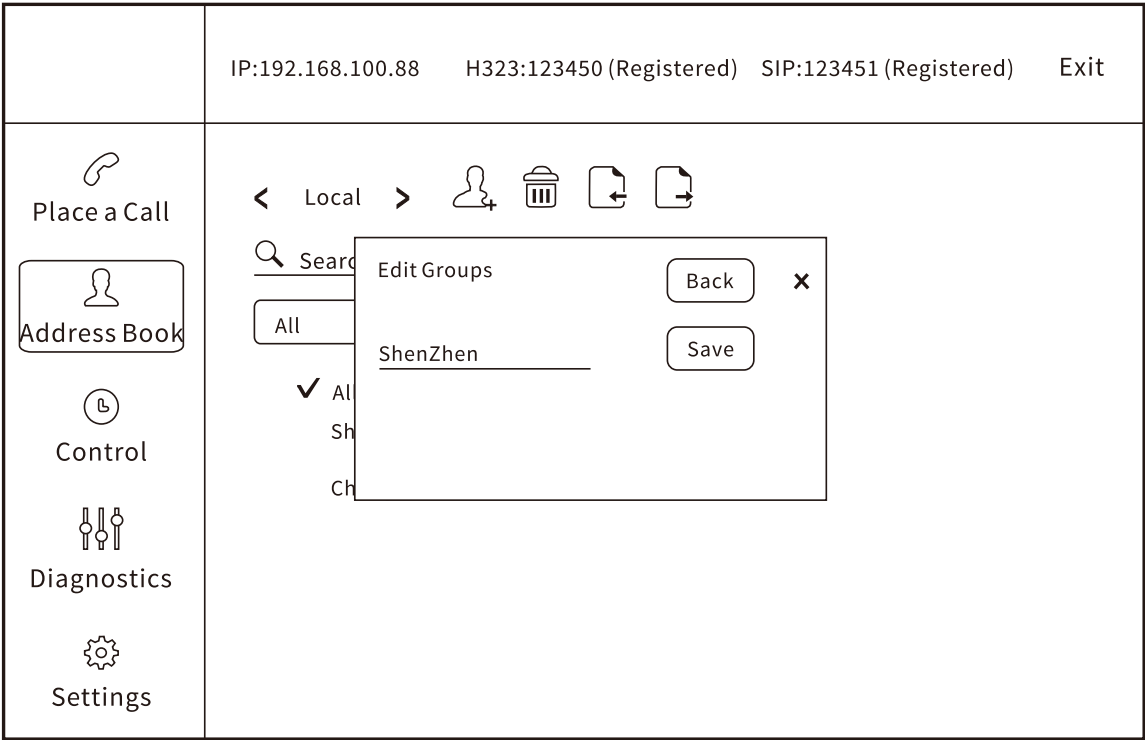
Step 3 Select “Save”.

3.5.3.2 Edit Grouping

➤ Operating Steps

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



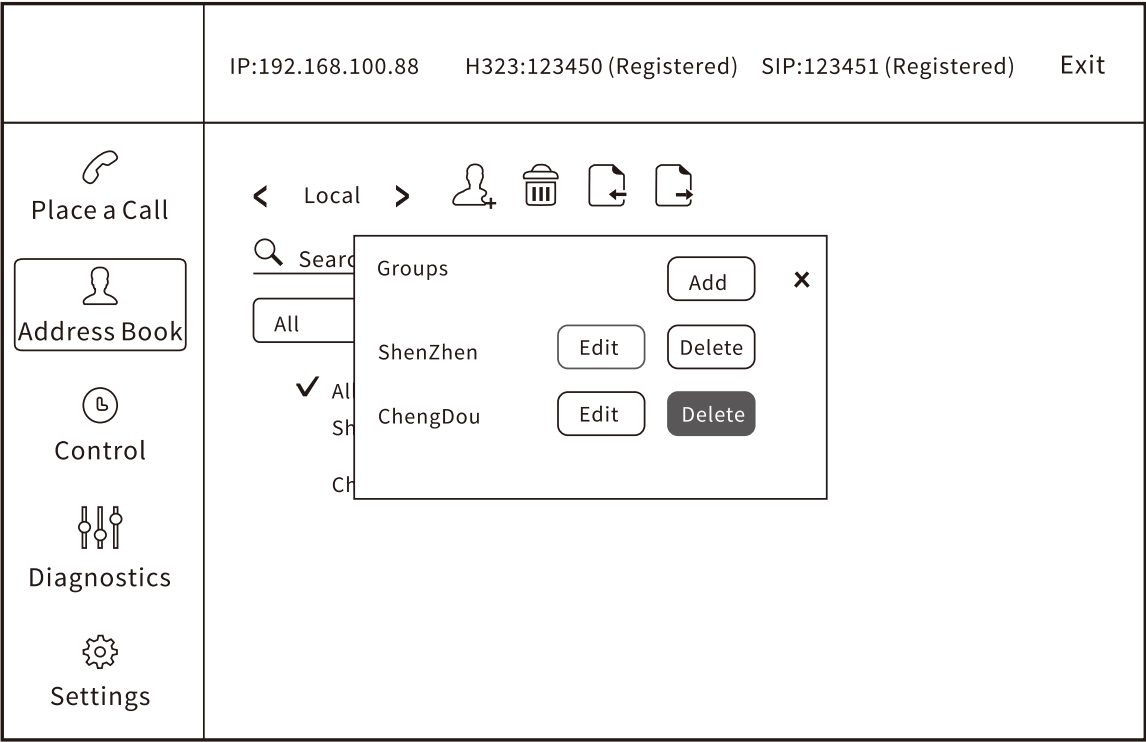


Step 2 Select “Save”.

3.5.3.3 Delete Grouping

➤ **Operating Steps**

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



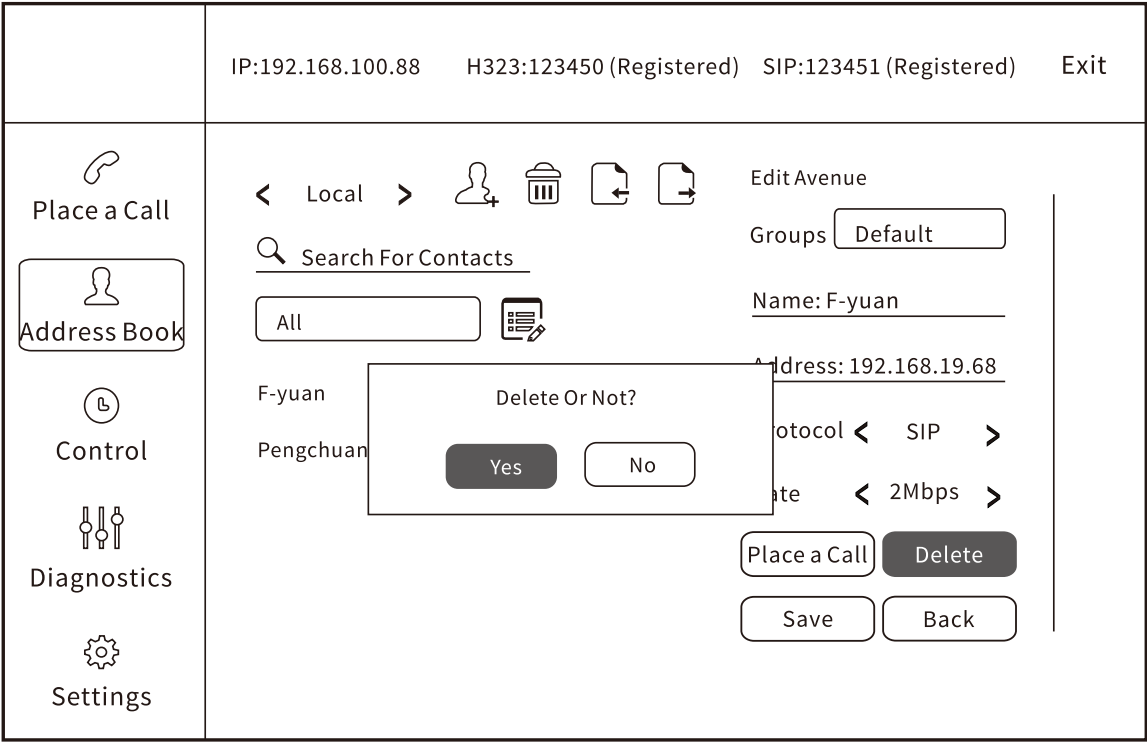
3.5.4 Delete Address

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.

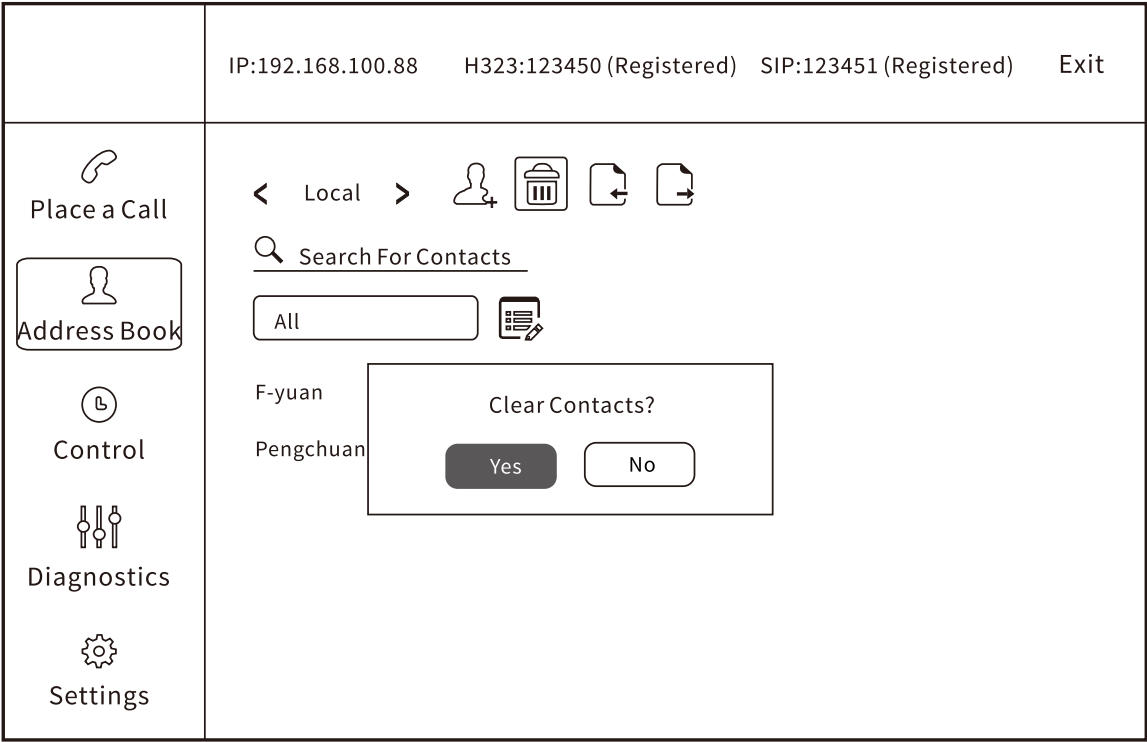


Step 3 Select “Yes” to delete the address.

3.5.4.2 Delete All

➤ **Operating Steps**

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



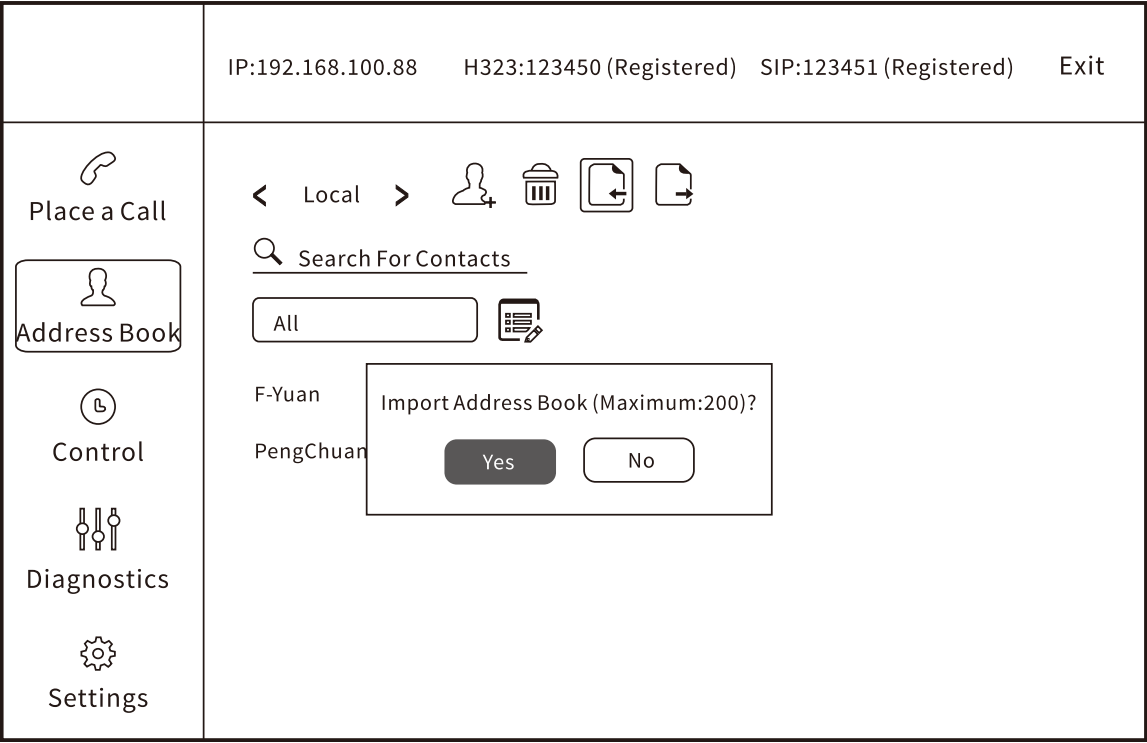
Step 2 Select “Yes” to clear the address book venue information.

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.



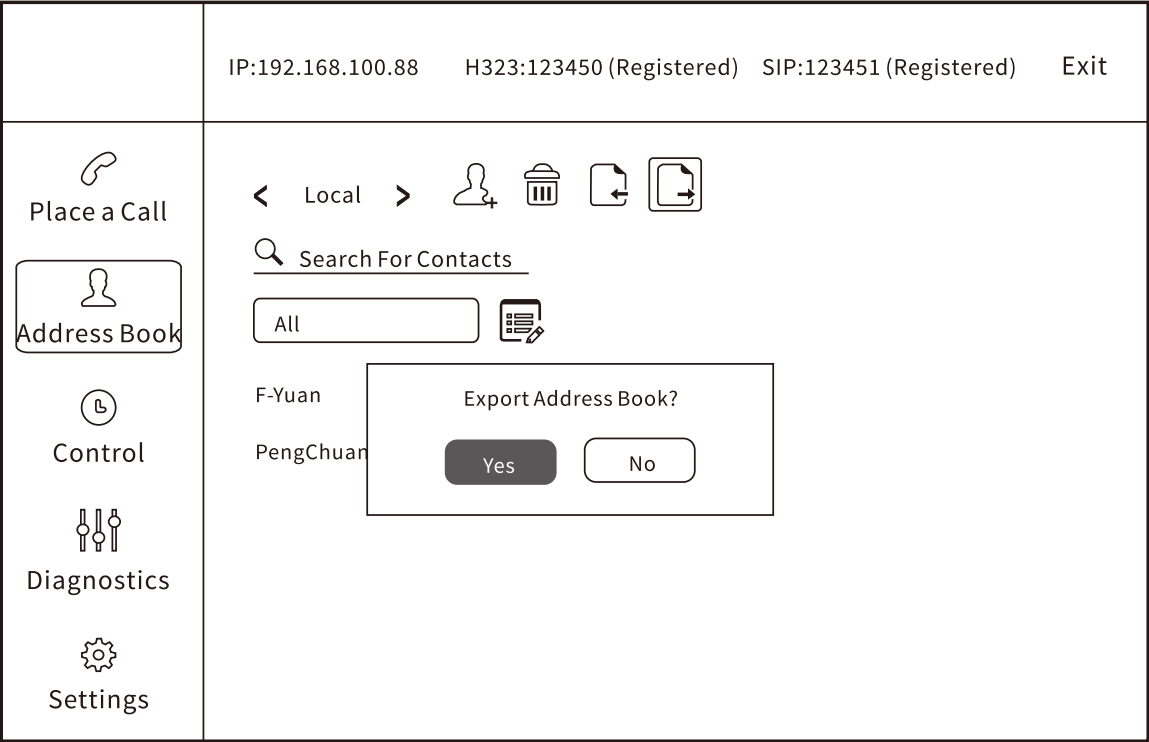
Step 2 Select “Yes” to confirm (follow the page steps).

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

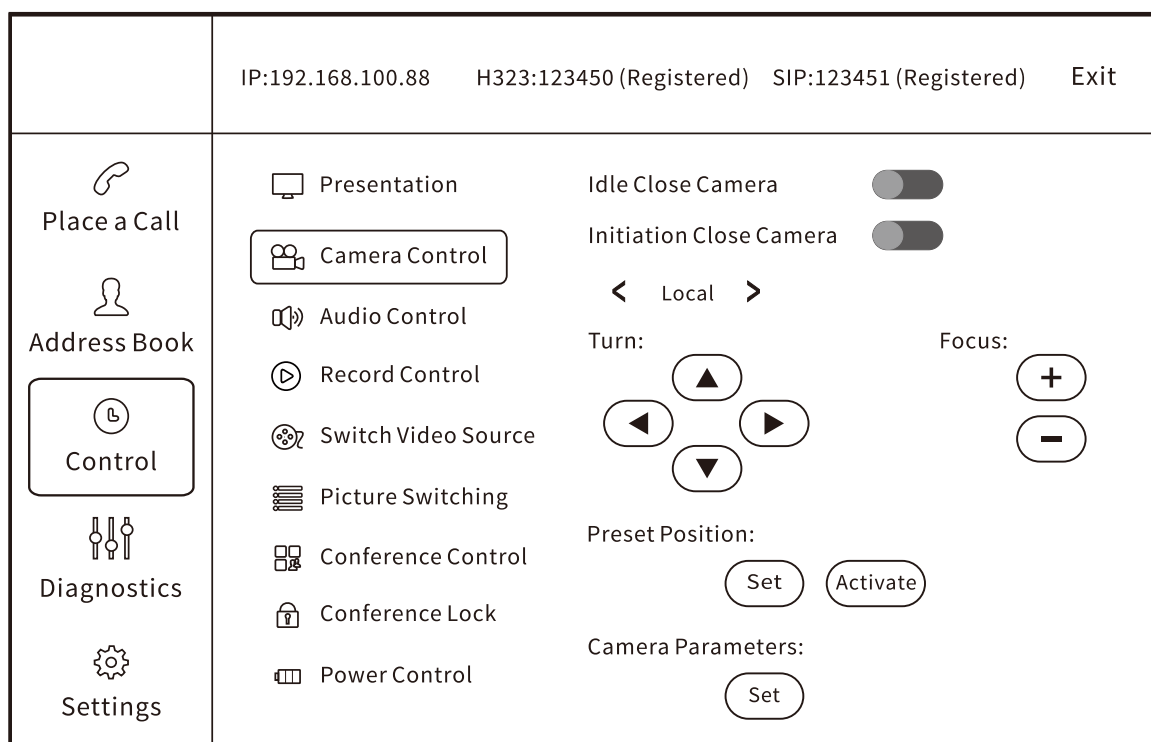
Control the secondary video stream, select whether to enable Presentation or Presentation Preview.

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	▲: Turning the camera upward. ►: Turning the camera to the right. ▼: Turning the camera downward. ◄: Turning the camera to the left.
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).

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

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

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: ● Automatic IP acquisition: The terminal automatically obtains the IP address through the DHCP server. ● 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.	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			
Place a Call Address Book Control Diagnostics Settings	Network	TCP Port Range:	30000	To 30100
	IP	UDP Port Range:	30000	To 30100
	Firewall	NAT Keep Alive Time:	20 Seconds	
	Service Quality	☒ Enable H.460 for NAT traversal of H.323 calls		
	IPv6	☐ Enable static NAT		
	SNMP	☒ Enable UDP hole punching		
Account	Call	Save		
Audio	Video	Restore Defaults		

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: 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: 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

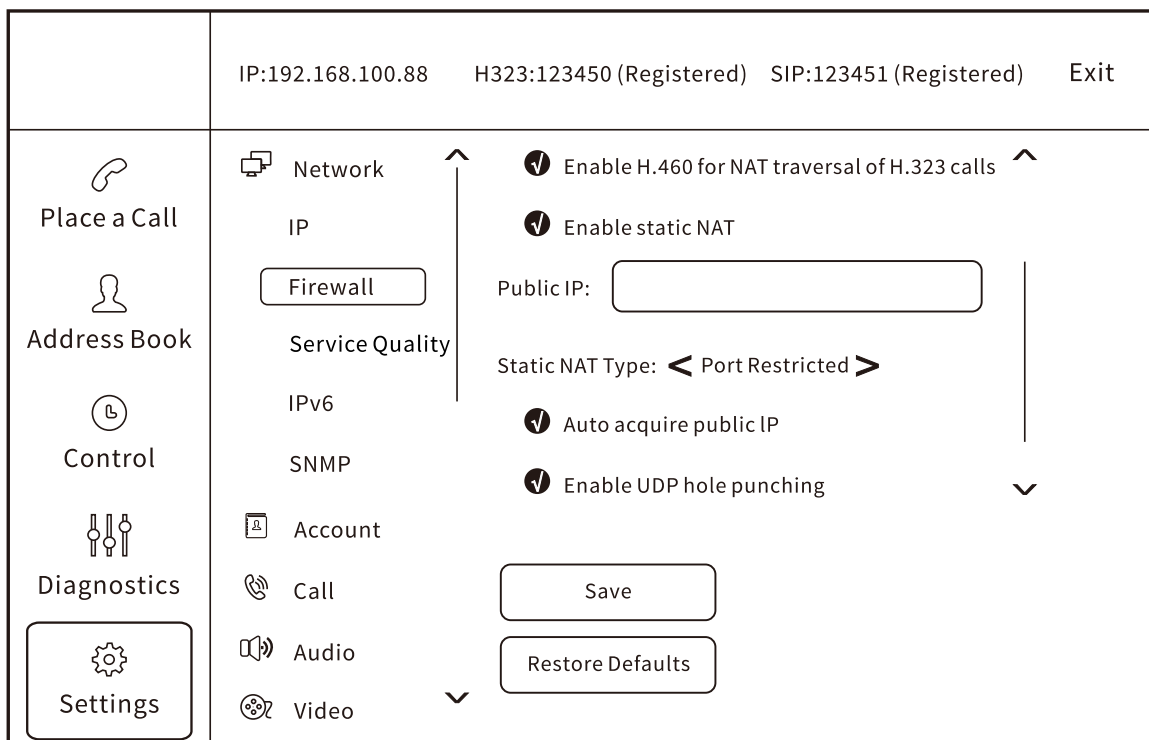
When selecting “Enable Static NAT”, you need to set the router simultaneously.

➤ 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.

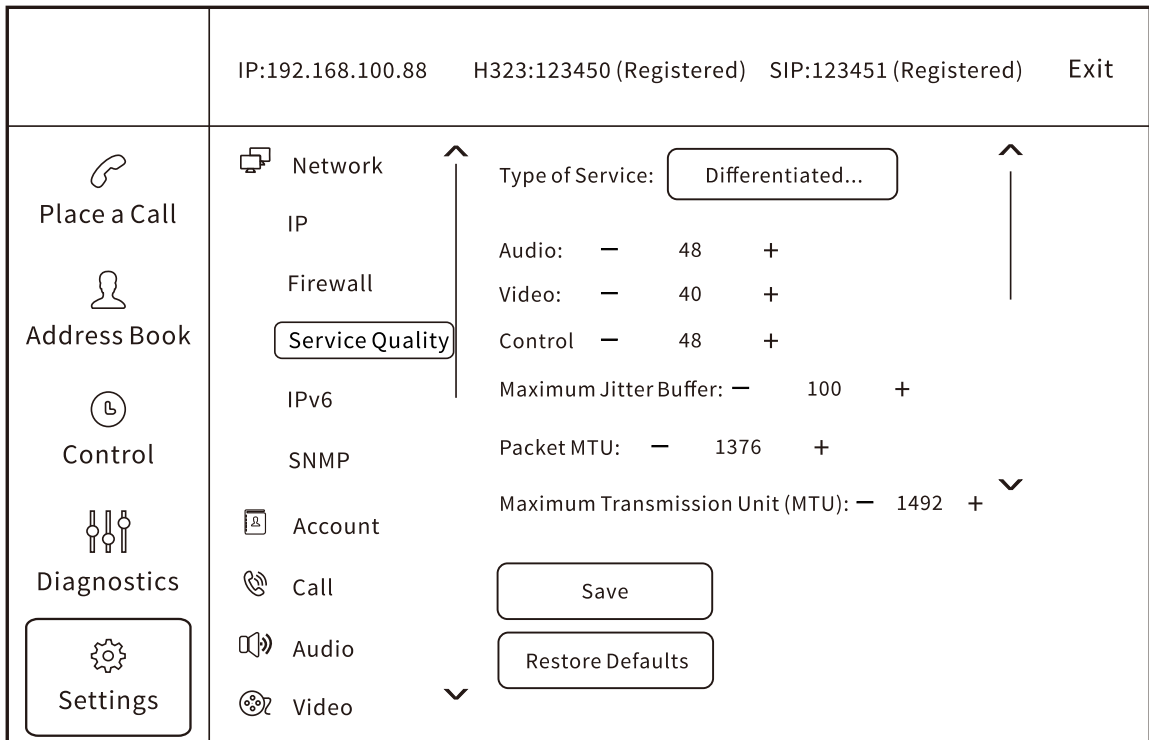
Step 7 Select “Save”.

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

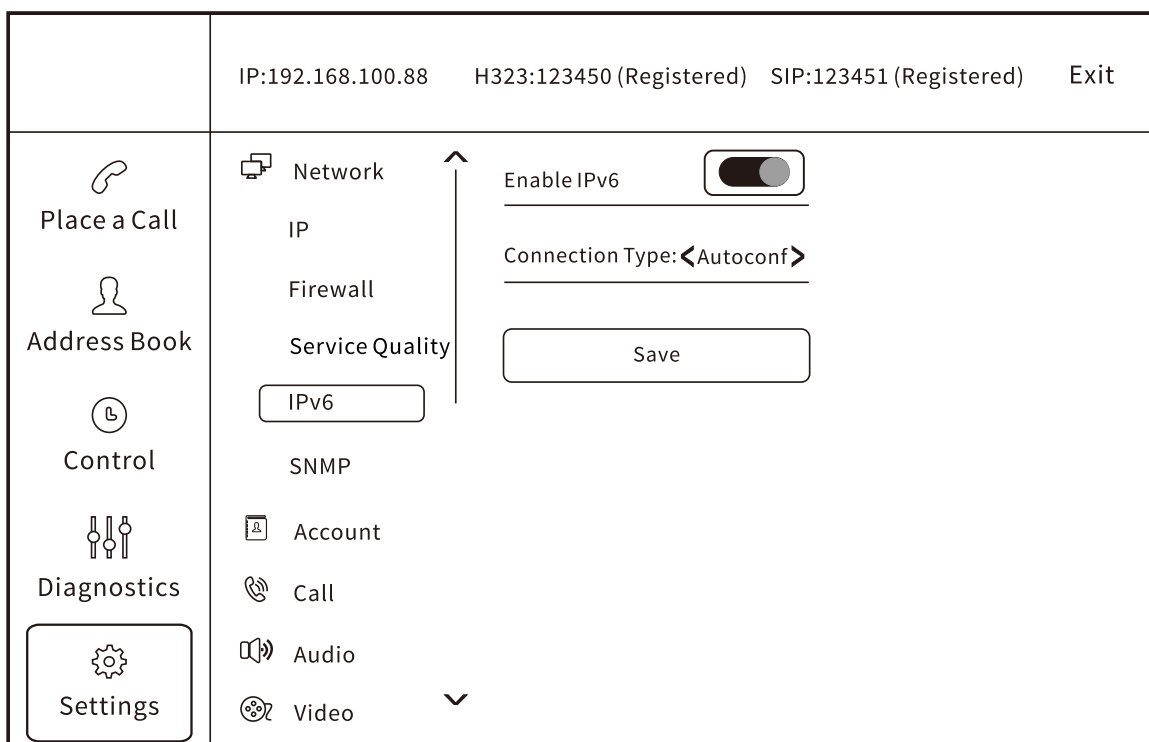
3.8.1.4 IPv6

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			
Place a Call Address Book Control Diagnostics Settings	Network IP Firewall Service Quality IPv6 SNMP	Account Call Audio Video	☒ Enable SNMP SNMP Version: < V1 > NMS Address: NMS Trap Port: 162 Community: Contact: Save Restore defaults	↑ ↑ ↓

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 Address Book Control Diagnostics Settings	Network Account Display Name H323 Account SIP Account Mqtt Configur.. Call Audio Record Security	Terminal Name: H.323 Displays Name Encoding As: < Unicode > H.323 Displays Name Decoding As: < Auto > Save Restore Defaults	

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		
Place a Call Address Book Control Diagnostics Settings	Network Account Display Name H323 Account SIP Account Mqtt Configur.. Call Audio Record Security	Enable H.323 ☒ Way of Collocation: < Manual > Gatekeeper Address: 218 28 249 132 *Registered Name: 123450 Terminal Number: Username: 123450 Password: ***** (Required Field) Save	

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. 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. 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. 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”.

	IP:192.168.100.88 H323:123450 (Registered) SIP:123451 (Registered) Exit		
 Place a Call  Address Book  Control  Diagnostics  Settings	 Network  Account Display Name H323 Account SIP Account Mqtt Configur..  Call  Audio  Record  Security	Enable SIP: ☒ Way Of Collocation: < Manual > Transport Protocol: < TCP > *Username:50001 *Password:***** *Proxy Server: 218.28.249.132 Alternate Proxy Server: Authentication Username: *Authentication Realm: 218 28 249.132 (Required Field) Save	

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. 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 Address Book Control Diagnostics Settings	Network Account Display Name H323 Account SIP Account Mqtt Configur..	Mqtt Url: tcp://XXX.XXX.XX.XXX:1883 Mqtt Username: XXXXXX Mqtt Password: ••••• Mqtt Type: < MQTT_VHD >	↑ ↓
	Call Audio Record Security	Save Restore Defaults	

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 Address Book Control Diagnostics Settings	Network Account Call Call Options EMCU Audio Video Record Security Protocol	☐ Auto answer ☐ Refuse the incoming-call automatically whe... ☒ Grab presentation ☒ Enable far camera control ☒ Enable lookup from DNS SRV record Default Call Type: < SIP > Save Restore Defaults	

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: ● Disable “Auto Answer”: When a call is received, a local pop-up window prompts the user to accept the call. ● Enable “Auto Answer”: When the terminal is not in a meeting, all incoming calls will be answered automatically.	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	Select the appropriate video mode based on the main video protocol: ● Clear: Prioritize image resolution. ● Smooth: Prioritize frame rate. ● Extremely smooth: Prioritize the frame rate to reach 60 frames.	Default: Smooth
Secondary Video Mode	Select the appropriate video mode based on the secondary video protocol: ● Smooth: Prioritize frame rate. ● Clear: Prioritize image resolution. ● Extremely smooth: Prioritize the frame rate to reach 60 frames. ● PPT: Prioritize document.	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”.

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			
Place a Call Address Book Control Diagnostics Settings	Network Account Call Audio Audio Input Audio Output ECHO Elimi... USB Audio Audio Capa... Digital MIC Stereo	Audio Output Digital Gain: — 8 + ☐ Show advanced settings ☒ Output tone Ring Out Gain: — 8 + ☒ Enable HDMI-1 audio out ☒ Enable HDMI-2 audio out Save Restore Defaults	↑ ↓	

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

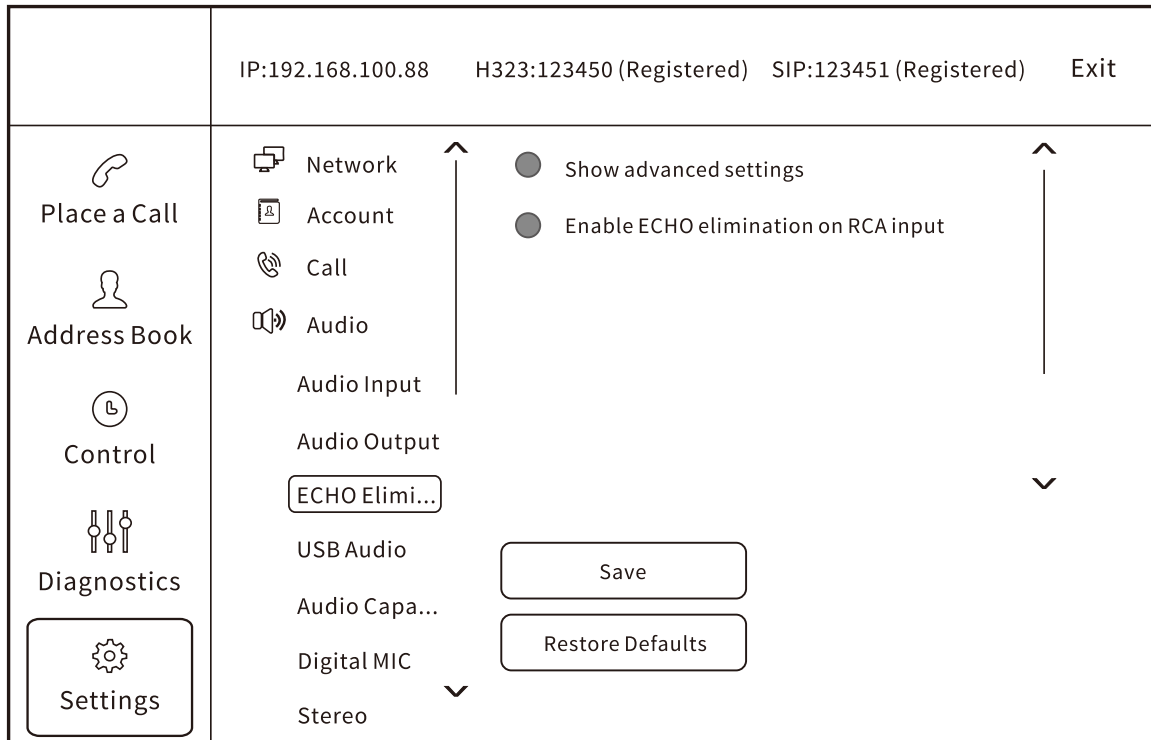
Step 3 Select “Save”.

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”.

	IP:192.168.100.88 H323:123450 (Registered) SIP:123451 (Registered) Exit		
Place a Call Address Book Control Diagnostics Settings	Network Account Call Audio Audio Input Audio Output ECHO Elimi... USB Audio Audio Capa... Digital MIC Stereo	☐ Show advanced settings ☒ Enable USB audio in ☒ Enable USB audio out ☒ Mute other microphone when USB phone con... ☒ Mute HDMI-OUT when USB phone connected ☒ Auto ECHO cancellation on USB microphone	Save Restore Defaults

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. 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		
Place a Call Address Book Control Diagnostics Settings	Network	↑	↑
	Account		
	Call		
	Audio		
	Audio Input		
	Audio Output		
	ECHO Elimi...		↓
	USB Audio		
	Audio Capa...		
	Digital MIC		
Stereo	↓		
		Save	
		Restore Defaults	

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 Address Book Control Diagnostics Settings	Network	☒ 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	Save		
	Audio Capa...	Restore Defaults		
		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		
Place a Call Address Book Control Diagnostics Settings	Network Account Call Audio Audio Input Audio Output ECHO Elimi... USB Audio Audio Capa... Digital MIC Stereo	Enable Alias Of Left Channel: Alias Of Right Channel: Mix Digital Microphone Into: < Both Channels > Mix Audioin Into: < Both Channels > Output Of HDMI-1 Left Channel From: < Left Channels > Save Restore Defaults	

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 Address Book Control Diagnostics Settings	Network Account Call Audio Video	NET VIDEO1: <u>rtsp://169.254.2.XX</u> (*Please configure the camera IP ...) NET VIDEO2: <u>rtsp://</u> (*Please configure the camera IP ...)	
	Video Input Video Output HDMI-1 Lay... HDMI-2 Lay... HDMI-3 Lay... ▼	Save Restore Defaults	

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 Address Book Control Diagnostics Settings	Network Account Call Audio Video	HDMI-1 Mode: < HDMI > HDMI-1 Resolution: < 1080P60 > HDMI-2 Mode: < HDMI > HDMI-2 Resolution: < 1080P60 > HDMI-3 Mode: < HDMI > HDMI-3 Resolution: < 1080P60 >	↑ ↓
	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: 1080P60, 720P60 (The output resolution is determined through EDID negotiation, and different displays negotiate different resolutions).	Default: 1080P60
HDMI-2 Mode	The default output mode is HDMI.	Default: HDMI
HDMI-2 Resolution	Configure HDMI-2 video output resolution: 1080P60, 720P60 (The output resolution is determined through EDID negotiation, and different displays negotiate different resolutions).	Default: 1080P60
HDMI-3 Mode	The default output mode is HDMI.	Default: HDMI
HDMI-3 Resolution	Configure HDMI-3 video output resolution: 1080P60, 720P60 (The output resolution is determined through EDID negotiation, and different displays negotiate different resolutions).	Default: 1080P60

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		
Place a Call Address Book Control Diagnostics Settings	Call Audio Video Video Input Video Output HDMI-1 Lay... HDMI-2 Lay... HDMI-3 Lay... Video Capa... Encoding	☒ Enable POP ☒ Enable PIP ☒ Enable equal size layout Layout When Idle With Presentation: < Presentat... > Without Presentation: < Large Far, Small Near > With Presentation: < Large Presentation, Small... > Save Restore Defaults	↑ ↑ ↓

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		
Place a Call Address Book Control Diagnostics Settings	Call Audio Video Video Input Video Output HDMI-1 Lay... HDMI-2 Lay... HDMI-3 Lay... Video Capa... Encoding	☒ Enable POP ☒ Enable PIP ☒ Enable equal size layout Layout When Idle with Presentation: < Presentat... > Without Presentation: < Local full Screen > With Presentation: < Presentation Full Screen >	Save Restore Defaults

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 Address Book Control Diagnostics Settings	Call Audio Video Video Input Video Output HDMI-1 Lay... HDMI-2 Lay... HDMI-3 Lay... Video Capa... Encoding	☐ Enable POP ☐ Enable PIP ☐ Enable equal size layout Layout When Idle with Presentation: < Presentat... > Without Presentation: < Local full Screen > With Presentation: < Presentation Full Screen >	Save 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 Address Book Control Diagnostics Settings	Call	↑	☒ H.265	↑
	Audio		☒ H.264HP	
	Video		☒ 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 Address Book Control Diagnostics Settings	Call	Encoder Type: < Encoder_camera >	
	Audio	Decoder Type: < Decoder_hardware >	
	Video	Decoder Resolution: < 4K >	
	Video Input	Video Interworking Mode: < Auto Mode >	
	Video Output		
	HDMI-1 Lay...		
	HDMI-2 Lay...		
	HDMI-3 Lay...	Save	
	Video Capa...	Restore Defaults	
	Encoding		

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: Encoder_hardware
Decoder Type	The default decoding mode is Decoder_hardware.	Default: 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

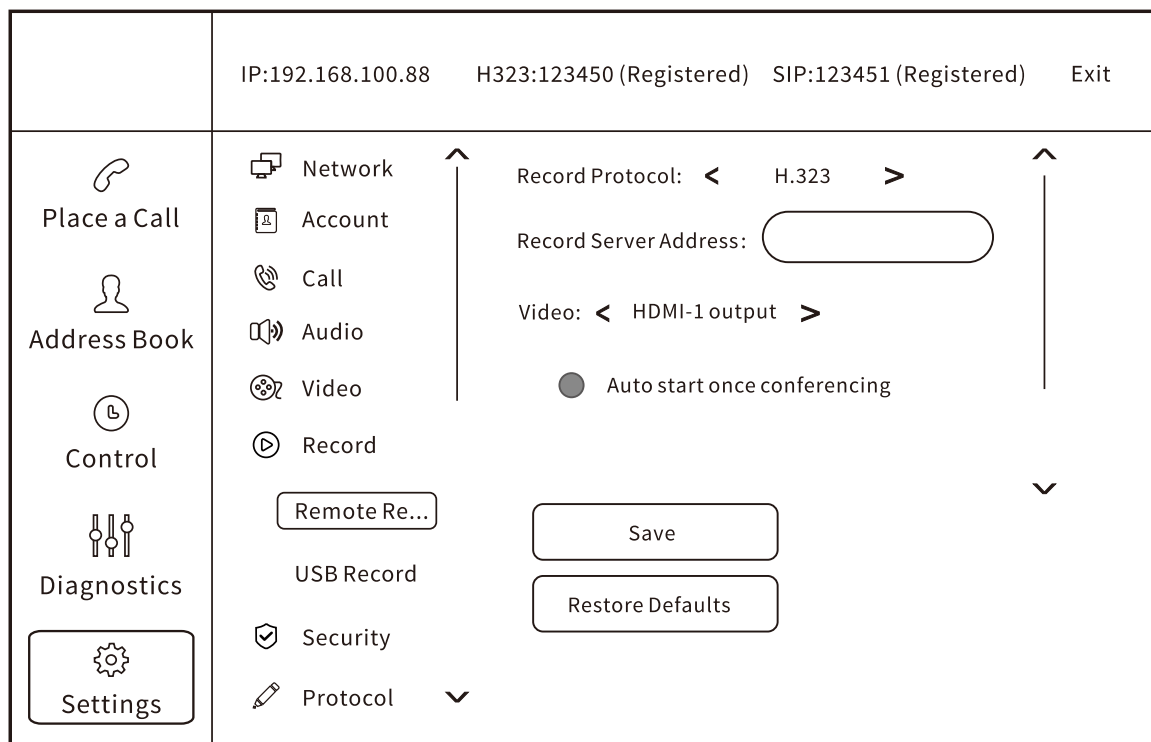
When using the terminal, you can record either the main video source or the HDMI-1 output and the recorded videos can be saved and played back. Terminal supports remote record and USB record. Remote record stores the recorded content on a recording server, and USB record saves the content to a local 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: ● Main video source: The main video source of the terminal, generally for the camera input. ● HDMI-1 output: The first video output of the terminal.	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”.

	IP:192.168.100.88 H323:123450 (Registered) SIP:123451 (Registered) Exit		
Place a Call Address Book Control Diagnostics Settings	Network Account Call Audio Video Record Remote Re... USB Record Security Protocol	Video: < HDMI-1 Output > Bit Rate: - 768kbps + Record Mode: < Manual Start > Save Restore Defaults	↑ ↑ ↓

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: ● Main video source: The main video source of the terminal, generally for the camera input. ● HDMI-1 output: The first video output of the terminal.	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: ● Start from start: Automatically start USB recording upon power-up. ● Self-start: Automatically start USB recording when the meeting begins. ● Manual start: Manually start USB recording.	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.

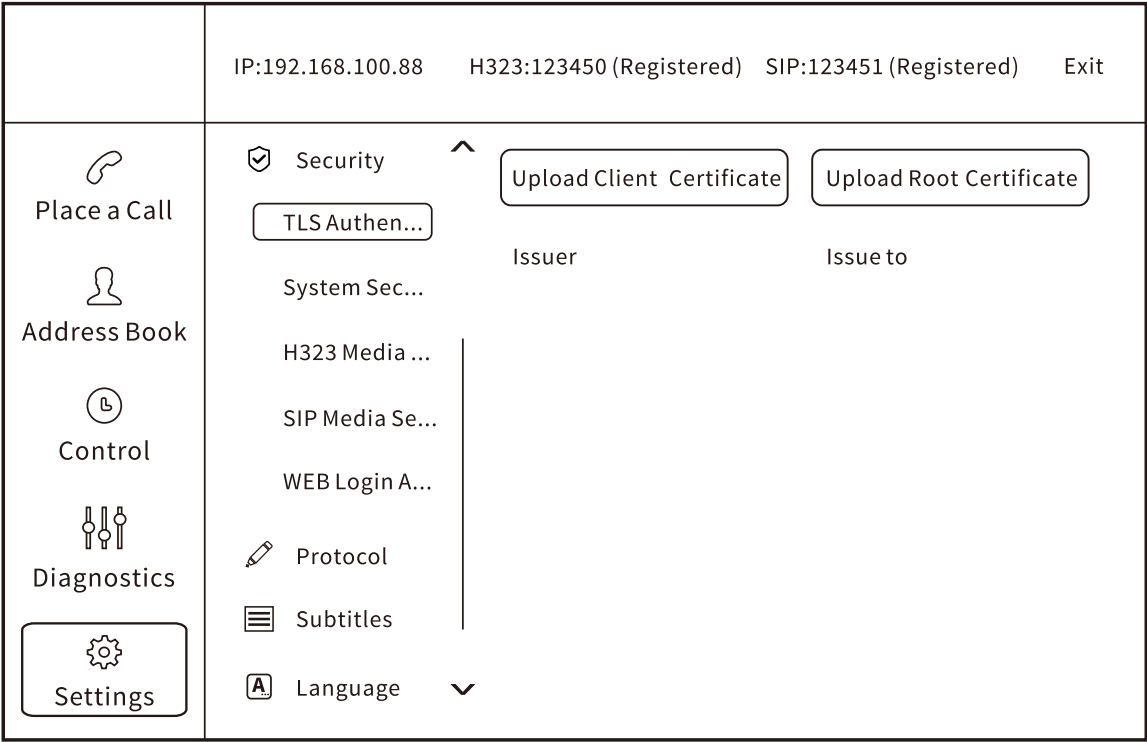
3.8.7 Security

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”.

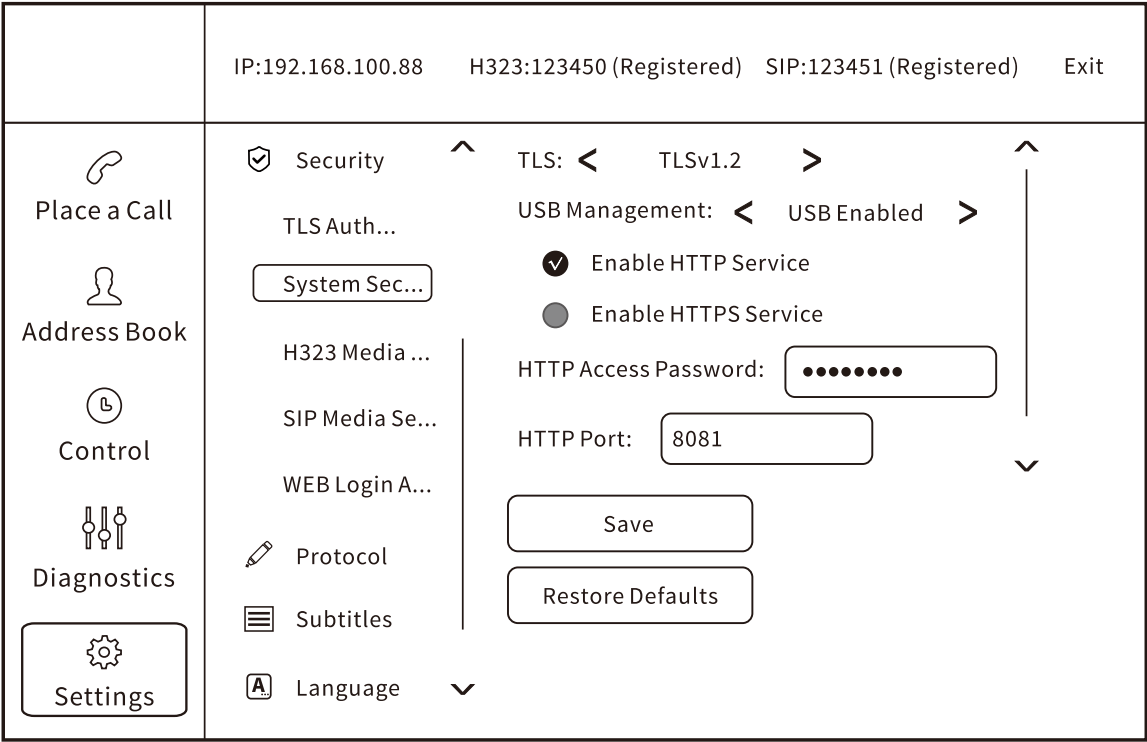


Step 2 Select “Upload Client Certificate” or “Upload Root Certificate” and follow the on-screen prompts to complete the operation.

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”.

	IP:192.168.100.88 H323:123450 (Registered) SIP:123451 (Registered) Exit		
 Place a Call  Address Book  Control  Diagnostics  Settings	 Security ^ TLS Authen... System Sec... H323 Media ... SIP Media Se... WEB Login A...  Protocol  Subtitles  Language v	☐ H.235.6 AES-256 ☒ H.235.6 AES-128 ☒ Plaintext (unencrypted)	^ v
	Save Restore Defaults		

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 (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”.

	IP:192.168.100.88 H323:123450 (Registered) SIP:123451 (Registered) Exit
Place a Call Address Book Control Diagnostics Settings	Security ^ SRTP: AES-128 & SHA1-80 Plaintext (unencrypted) Save Restore Defaults TLS Authen... System Sec... H323 Media ... SIP Media Se... WEB Login A... Protocol Subtitles Language v ^ ↓

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

Step 3 Select “Save”.

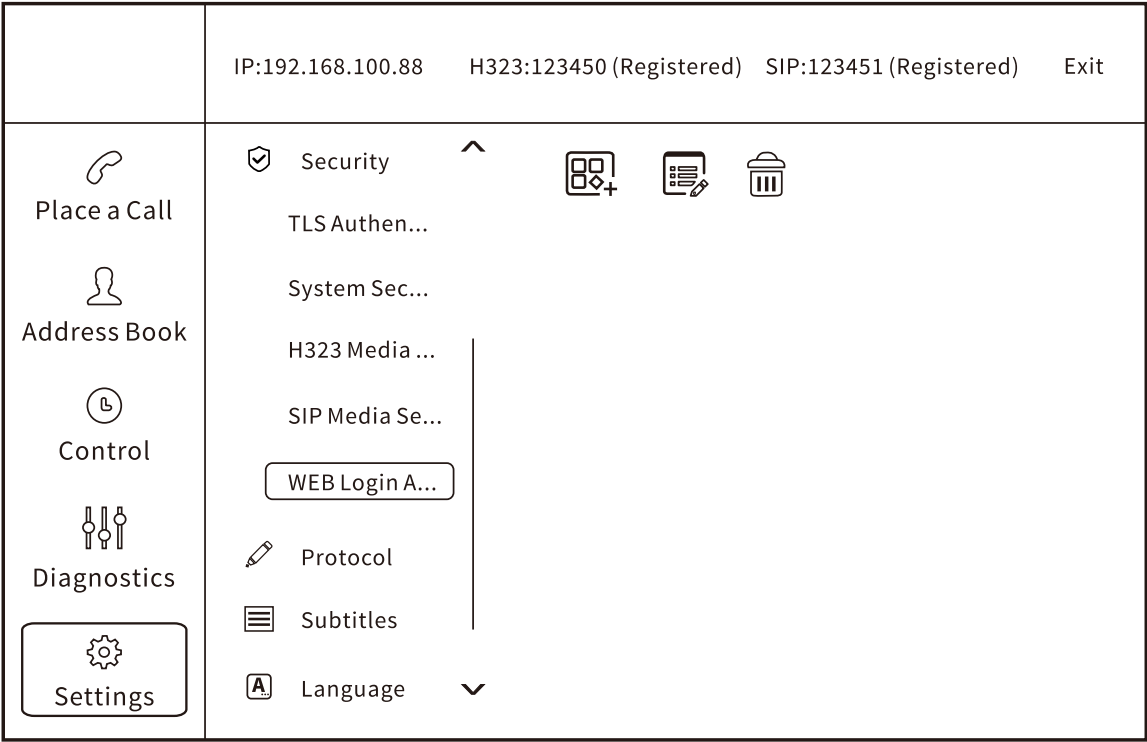
Parameter	Parameter Declaration	Parameter Setting
SRTP: AES-128 & SHA1-80	Enable or disable SRTP: AES-128 & SHA 1-80.	Default: Disabled
Plaintext (unencrypted)	Enable or disable plaintext (unencrypted).	Default: Disabled

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
Place a Call Address Book Control Diagnostics Settings	Video Record Security Protocol H.323 SIP Subtitles Language Others ☒ Enable call IP address directly when registered ☐ Enable H.245 tunnel ☐ Send GRQ ☒ Enable H.239 control ☒ Enable H.239 static dual stream Send DTMF As: < RFC2833 > Save Restore defaults

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”.

	IP:192.168.100.88 H323:123450 (Registered) SIP:123451 (Registered) Exit
Place a Call Address Book Control Diagnostics Settings	Video ^ Record Security Protocol H.323 SIP Subtitles Language Others v Send DTMF As: < Auto > Keep-alive Mode: < By OPTION > Keep-alive Cycle: - 30 + PRACK Mode: < Auto > ☐ Enable compact mode to encode large packet ☒ Enable BFCP control Save Restore defaults

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 Address Book Control Diagnostics Settings	Protocol ^ Log Level: - 3 + ^ Subtitles ☒ Save log to file Language ☐ Send log to log server Others Date Logging Save Restore Defaults Configuration Upgrade Factory Reset v

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. 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

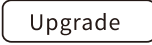
Upgrade mode: Upgrade Via USB Storage, Upgrade by Uploading Via Browser, Upgrade Via Network.

- 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”.

	IP:192.168.100.88	H323:123450 (Registered)	SIP:123451 (Registered)	Exit
 Place a Call  Address Book  Control  Diagnostics  Settings	 Protocol  Subtitles  Language  Others Date Logging Configuration  Factory Reset	^ ☒ Enable upgrade ☐ Check new version on startup ☐ Forced upgrade Select Upgrade Mode: < Upgrade Via USB... > ☐ Check new version right now v	Save Restore Defaults	

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		
Place a Call Address Book Control Diagnostics Settings	Protocol Subtitles Language Others Date Logging Configuration Upgrade Factory Reset	☒ Enable Save Account Information ☒ Enable Save IP Information ☒ Enable Start Factory Reset Save Restore Defaults	↑ ↓

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.