



Prestel VCS-G31

Split 4K UHD
Video Conferencing Terminal



USER MANUAL

Limitation of Liability

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Warning

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

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1 Packing List

When opening the package, please inspect and confirm that all accessories provided are included.

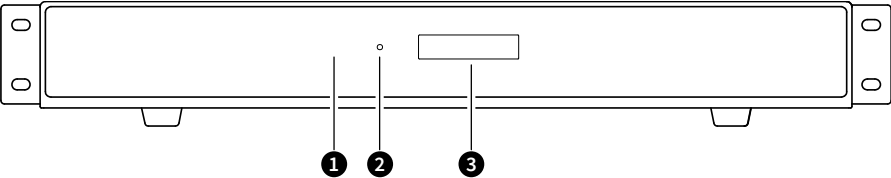
Name	Quantity
Video Conferencing Terminal	1
AC Power Cord	1
Remote Control	1
HDMI Cable	2
Mounting Hanger	2
Manual QR Code	1

2 Product Instruction

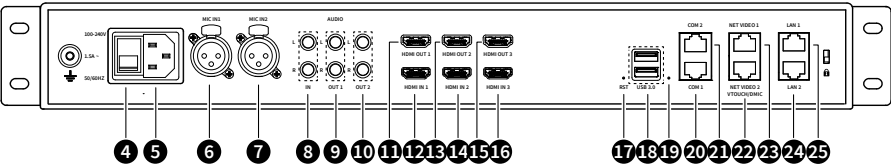
The Split 4K UHD video conferencing terminal, based on the latest generation of core media chips and leveraging a high-performance hardware platform architecture, supports simultaneous 4K30 + 4K30 video streams, delivering an exceptional meeting experience for users. With four input and three output video interfaces, it is compatible with various types of cameras and display devices, meeting the integration requirements of different types of meeting rooms. It can be used in various application scenarios such as administrative meetings, emergency command, telemedicine, and distance education etc.

2.1 Product Appearance

Front View



Back View



No.	Name	Description
1	IR Window	Infrared signal receiving window.
2	Indicator	Status indicator.
3	OLED Display	Display the Terminal's IP address.
4	Power On/Off	Turn On/Off the terminal.
5	Power	100~240V power input interface.
6	MIC IN 1	MIC IN interface 1, used to receive the audio.
7	MIC IN 2	MIC IN interface 2, used to receive the audio.

No.	Name	Description
8	AUDIO IN	AUDIO IN interface, connect to the external PC or Gooseneck Microphone.
9	AUDIO OUT 1	AUDIO OUT interface 1, connect to the external Loudspeaker.
10	AUDIO OUT 2	AUDIO OUT interface 2, connect to the external Loudspeaker.
11	HDMI OUT 1	HDMI OUT interface 1, connect to the external HDTV or display device to output the first video source.
12	HDMI IN 1	HDMI IN interface 1, connect to the external HD Camera or PC to input the first video source.
13	HDMI OUT 2	HDMI OUT interface 2, connect to the external HDTV or display device to output the second video source.
14	HDMI IN 2	HDMI IN interface 2, connect to the external HD Camera or PC to input the second video source.
15	HDMI OUT 3	HDMI OUT interface 3, connect to the external HDTV or display device to output the third video source.
16	HDMI IN 3	HDMI IN interface 3, connect to the external HD Camera or PC to input the third video source.
17	RST	RESET Button: ● When powered off: Press and hold to power on until the startup logo appears, then release it to restore the backup system. ● During normal operation: Long-press for 3 seconds to restore the factory settings.
18	USB	USB interface, connect to the external USB flash drive, Mouse, Keyboard, Microphone, Speaker or HD Camera etc.
19	Firmware Update	Short press to enter the download mode after powering on and connecting the firmware flashing cable.
20	COM 1	COM interface 1, connect the external RS232/ RS422 devices such as Computer, HD Camera etc.
21	COM 2	COM interface 2, connect the external RS232/ RS422 devices such as Computer, HD Camera etc.
22	NET VIDEO 2 VTOUCH/DMIC	NET VIDEO 2 VTOUCH/DMIC interface, connect to the external Network Camera, Tablet, or Digital Microphone etc.
23	NET VIDEO 1	NET VIDEO 1 interface, connect to the external Network Camera.

No.	Name	Description
24	LAN 2	Network interface 2, connect to the ethernet network.
25	LAN 1	Network interface 1, connect to the ethernet network.

2.2 Technical Specifications

Category	Project	Specifications
Electrical Characteristics	Operating Voltage	AC 100V~240V
	Power Consumption	60W
Environmental Requirements	Operating Conditions	
	Temperature	0°C~40°C
	Relative Humidity	10%~80%
	Ambient Noise	<46dBA SPL
	Non-operating Conditions	
	Temperature	-40°C~70°C
Physical Characteristics	Relative Humidity	0%~95%
	Bare Dimensions	442mm x 285mm x 58mm (without mounting hanger and feet)
	Bare Weight	About 5.0kg

3 Installation and Connection

The terminal can be placed on the horizontal desktop or installed on the cabinet.

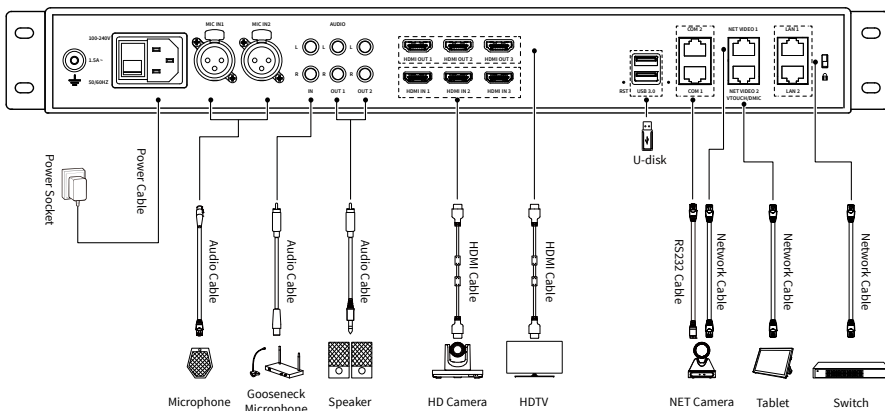


Note

- When placing the terminal directly on the desktop, please keep the desktop stable to prevent it from slipping.
- When installing the terminal on a cabinet, please use screws to secure it.
- Adjust the orientation of the terminal to avoid direct sunlight which may affect the device's heat dissipation.

3.1 Connection

The cable connection figure shown below contains optional configuration (for reference only). Please connect the cables according to the actual needs.



The configuration is as follows:

- First Video Input: Connect an external HD Camera to the HDMI IN 1, HDMI IN 2, HDMI IN 3, NET VIDEO or USB interface of the Terminal, and set it as the mainstream input signal source in the “Video” interface to input the first video source.
- Second Video Input: Connect an external HD Camera or second video source to the HDMI IN 2 interface of the Terminal to input the second video image.
- Third Video Input: Connect an external HD Camera or third video source to the HDMI IN 3 interface of the Terminal to input the third video image.

- **Audio Input:** Connect the supplied Microphone to the MIC IN interface of the Terminal via a cannon cable; Or, connect a Digital Microphone to the VTOUCH/DMIC interface of the terminal via a network cable; Or, connect a PC or Telephone audio source to the AUDIO IN interface of the Terminal via an RCA audio cable.
- **Audio Output:** Connect an HDTV to the HDMI OUT interface of the Terminal via an HDMI cable; Or, connect a Loudspeaker to the AUDIO OUT interface via an RCA audio cable.
- **First Video Output:** Connect an HDTV to the HDMI OUT 1 interface of the Terminal via an HDMI cable to output the first video image.
- **Second Video Output:** Connect an HDTV to the HDMI OUT 2 interface of the Terminal via an HDMI cable to output the second video image.
- **Third Video Output:** Connect an HDTV to the HDMI OUT 3 interface of the Terminal via an HDMI cable to output the third video image.
- **Network:** Connect the Ethernet Network to the LAN interface of the Terminal via a network cable.
- **Power Supply:** Use a 100~240V AC power cord to connect the Terminal to a power outlet.

3.2 Power On

Turn on the power after connecting all devices compatible with the conference terminal.



Notice

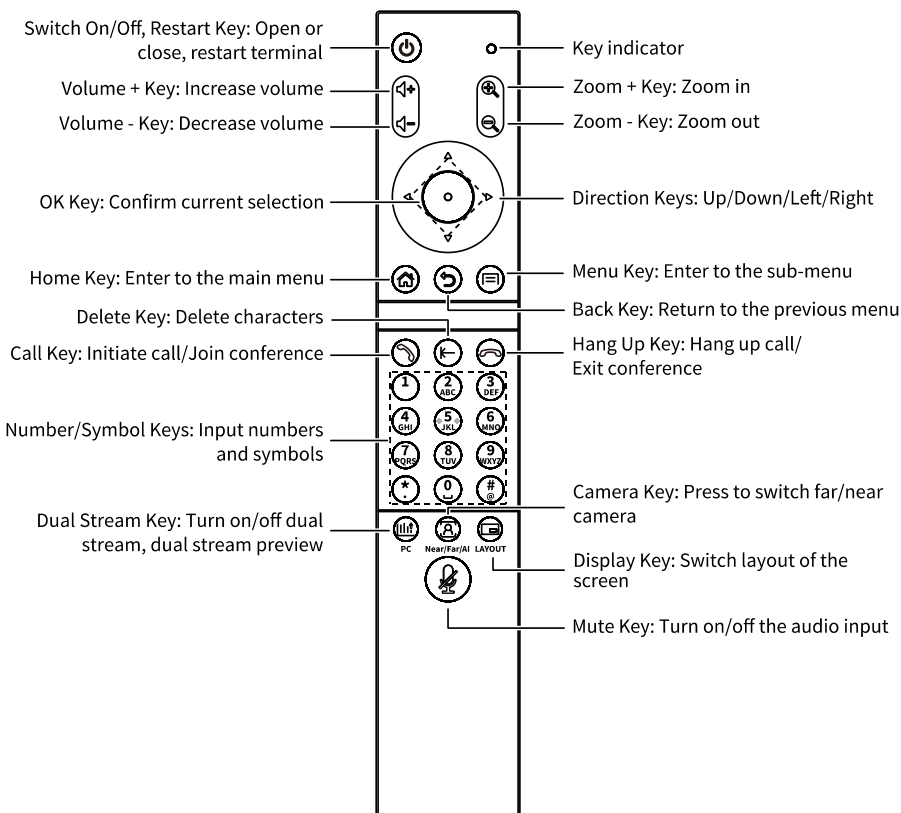
- When the terminal power is turned on, please prevent the power cord plug disconnecting from the terminal, which may cause the terminal to lose power.
- Please close the terminal first, then turn off the external power supply, and finally unplug the power cord. Please check that the power cord is correctly and securely connected to the corresponding device in accordance with the following requirements.
- Ensure that the AC power supply voltage is within the range of 100V to 240V, with a frequency of 50Hz or 60Hz.
- The sequence of the live wire (L), neutral wire (N), and protective earth wire (PE) must comply with international standards, and the protective earth wire must be reliably grounded.

Use HDMI OUT1 as the output interface. After connecting the cables, plug the power cord into a power outlet, turn on the terminal power switch and start up until the main menu interface appears.

The indicator lights of the terminal are explained in the table below:

Indicator Status	Terminal Status
Green steady indicator	In normal operation
Green flashing indicator	Received remote control infrared signal
Red steady indicator	Standby or turned off but not disconnected from the power source
Indicator Off	Power disconnected

4 Remote Control



Notice

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

Instruction of Remote Control Shortcut Key:

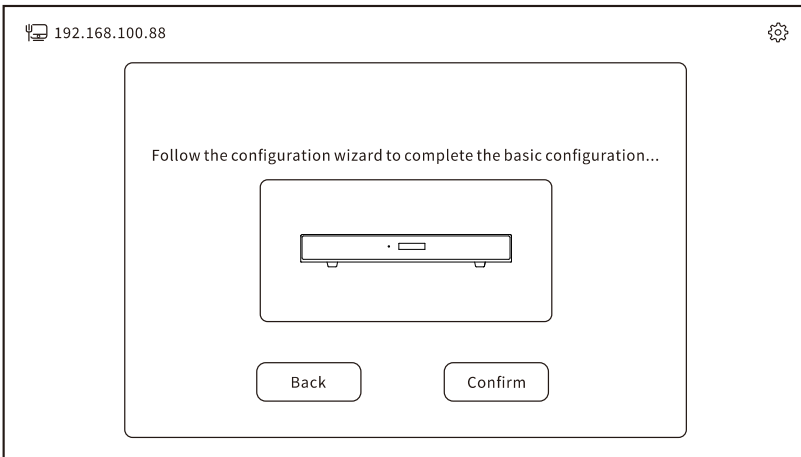
Shortcut Key	Function
Press [Hang Up] key for 5 times	Upload the log to the log server
Press [#] + [*] + [#] keys sequentially	Lock the terminal
Press *] + [#] + [*] keys sequentially	Unlock the terminal
Press [Hang Up] key + Numeric key 1 sequentially	Switch HDMI OUT 1 output resolution
Press [Delete]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

5 Operation (Remote Control)

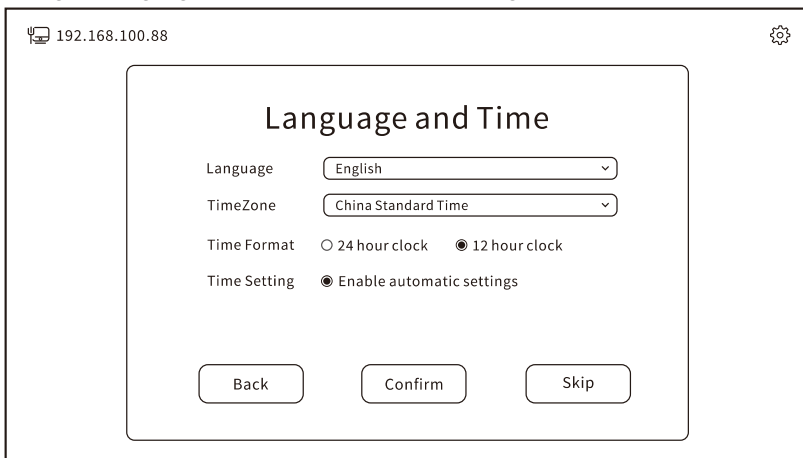
5.1 Terminal Guide

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 device configuration (select “Back” to cancel the configuration and return to the previous menu).



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



192.168.100.88

Language and Time

Language: English

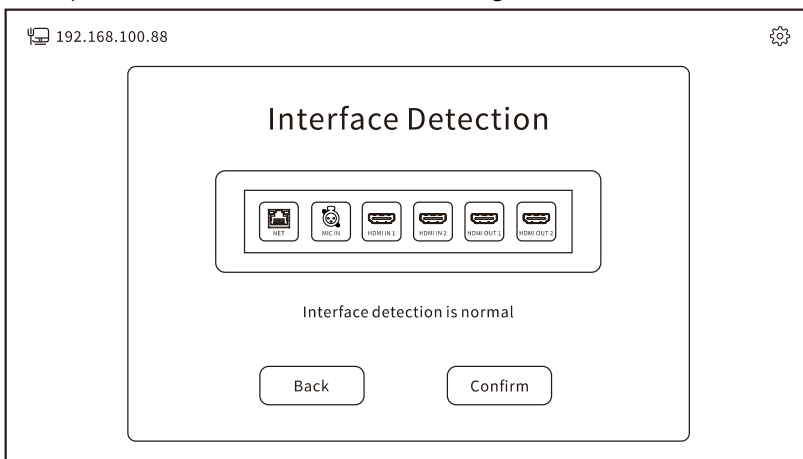
Time Zone: China Standard Time

Time Format: ☐ 24 hour clock ☒ 12 hour clock

Time Setting: ☒ Enable automatic settings

Back Confirm Skip

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



192.168.100.88

Interface Detection

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

Interface detection is normal

Back Confirm

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

192.168.100.88

Network

Wired Network Wireless Network

Wired Network ☒ Open ☐ Off

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

IPv4 Address 192 168 100 88

Netmask 255 255 255 0

Gateway 192 168 100 1

DNS1 114 114 114 114

DNS2 8 8 8 8

Back Confirm Skip

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

192.168.100.88

Account

Account Type SIP

Register SIP ☒

Account

Register Password

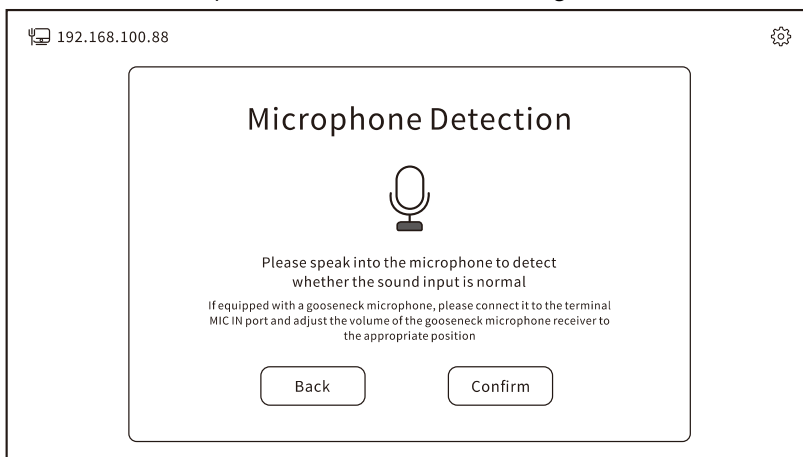
Register Server

Proxy Server

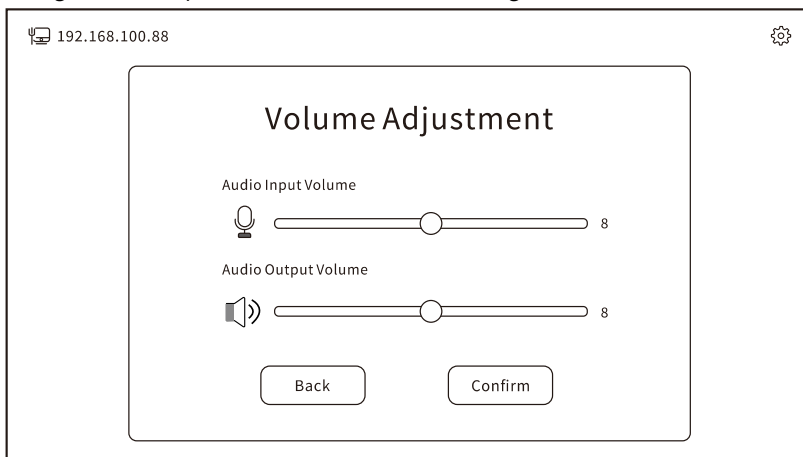
Authentication Username

Back Confirm Skip

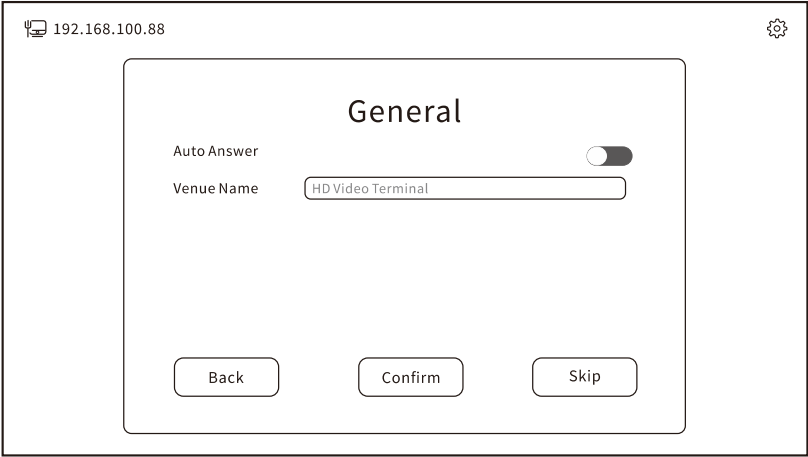
6. Enter the “Microphone Detection” interface, speak into the microphone to detect whether the sound input is normal, select “Confirm” to go ahead.



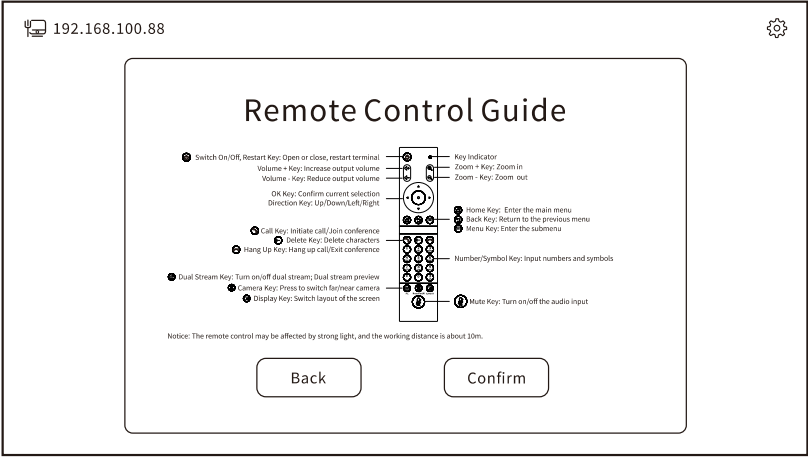
7. Configure Volume parameters, select “Confirm” to go ahead.



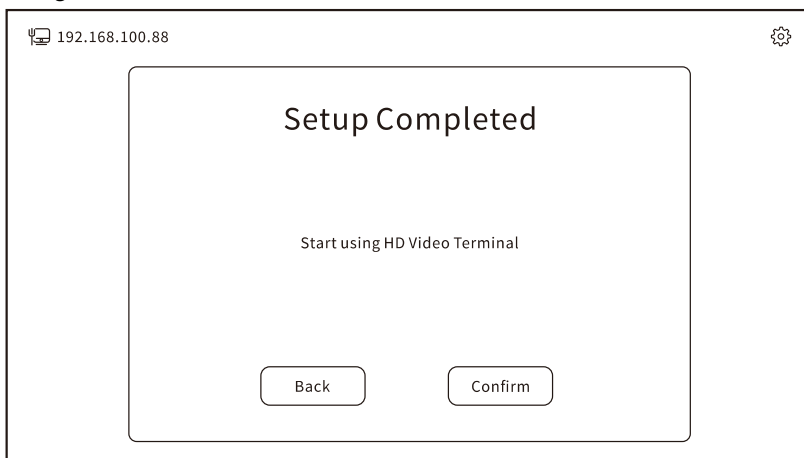
8. Enable or disable the Auto Answer function, configure the Venue Name, select “Confirm” to go ahead.



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



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



Note

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

5.2 Main Interface

Press the main menu key “

The diagram shows the main interface of the Split 4K UHD Video Conferencing Terminal. It features a top status bar with three items: 1. IP Address (192.168.100.88), 2. H323 Registration Status (H323: 123450), and 3. SIP Registration Status (SIP: 123451). The center of the screen displays the system time (10:18 AM) and date (05-24 Wednesday), with callout 4 pointing to the time. At the bottom, there are two menu buttons: 5. Meeting (represented by a screen with a play button icon) and 6. More (represented by a screen with three dots icon).

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 “

16

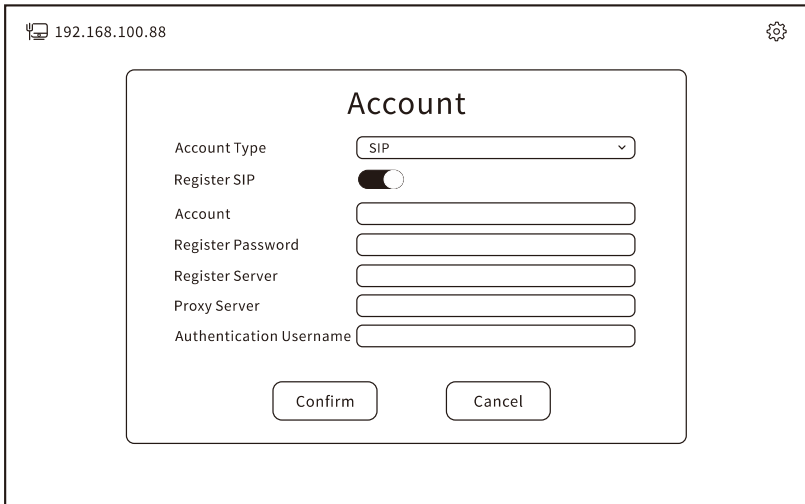
5.3 Register Account

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

5.3.1 Register SIP Account

➤ Operating Steps

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



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.



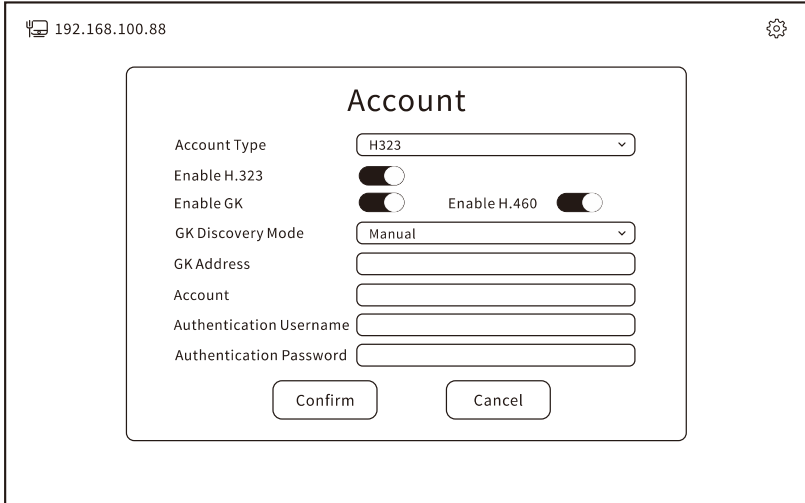
Note

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”.

5.3.2 Register H323 Account

➤ Operating Steps

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



The screenshot displays the 'Account' configuration window. At the top left, the IP address '192.168.100.88' is shown. The window title is 'Account'. The configuration options are as follows:

Field	Value / State
Account Type	H323
Enable H.323	Enabled (toggle on)
Enable GK	Enabled (toggle on)
Enable H.460	Enabled (toggle on)
GK Discovery Mode	Manual
GK Address	[Empty text field]
Account	[Empty text field]
Authentication Username	[Empty text field]
Authentication Password	[Empty text field]

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

Step 2 Set account type to H323.

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

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

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

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

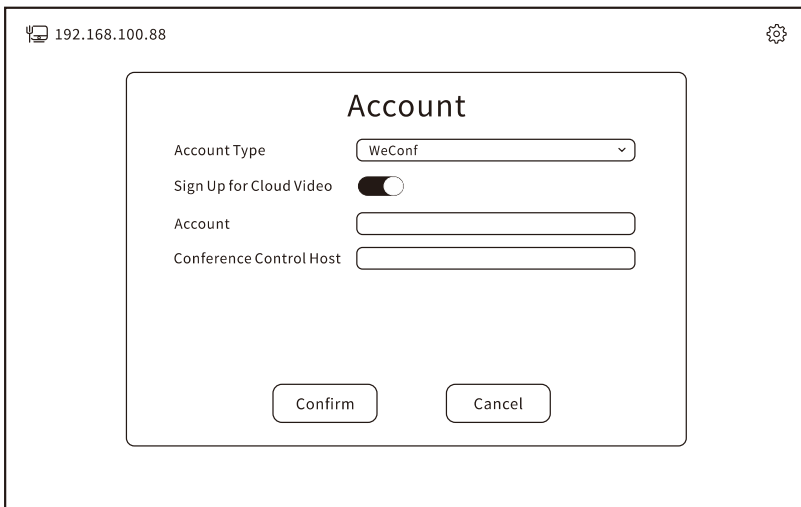
5.3.3 Register WeConf Account (Optional)

➤ 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.

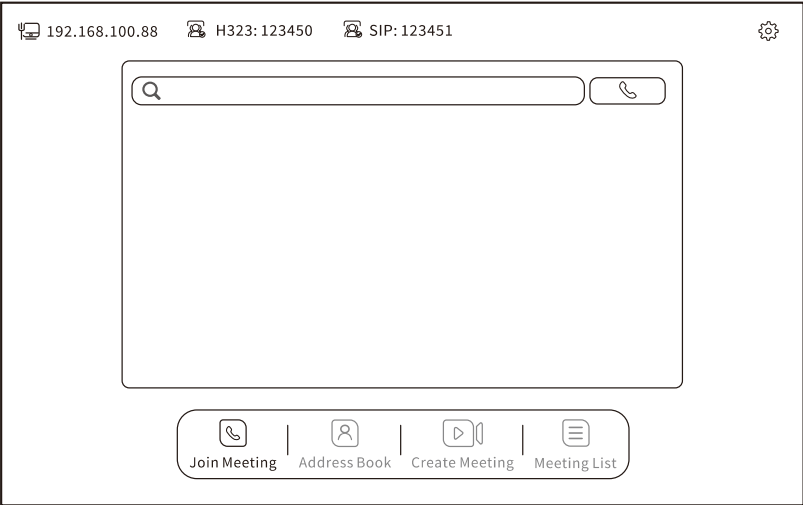
5.4 Join Meeting

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.

5.4.1 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.

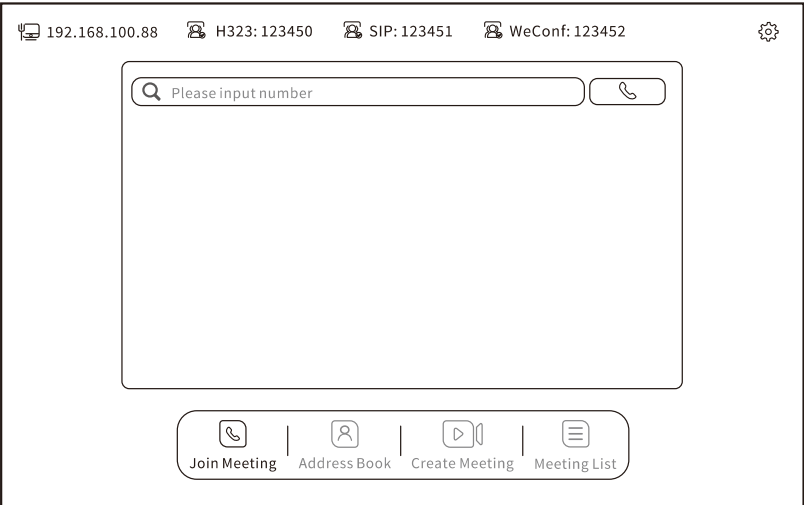
5.4.2 Join Weconf Meeting (Optional)

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

5.4.2.1 Join a WeConf Meeting via Meeting ID

➤ **Operating Steps**

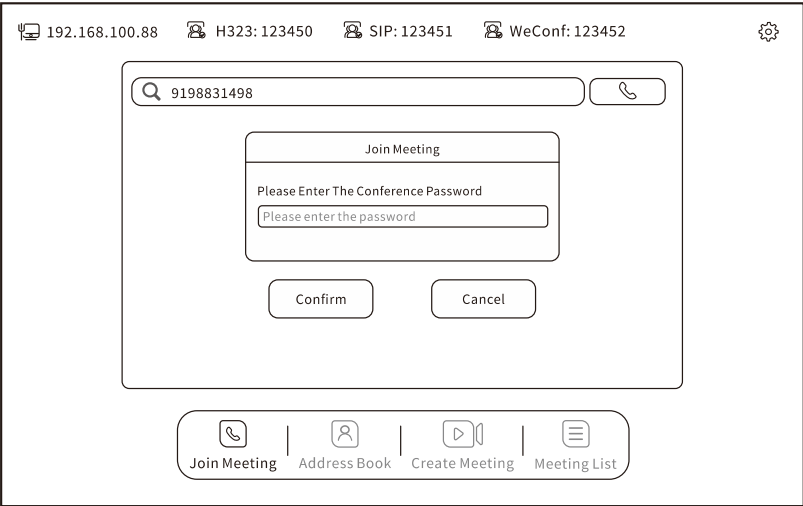
Step 1 On the main menu interface, select “ Join Meeting”.



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:



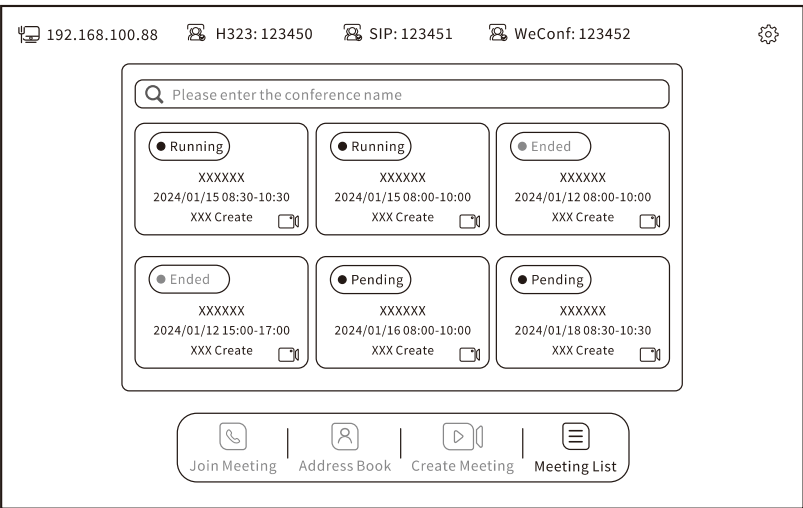
Step 4 Enter the meeting password and select “Confirm” to join the meeting.

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

5.4.2.2 Join a WeConf Meeting via Meeting List

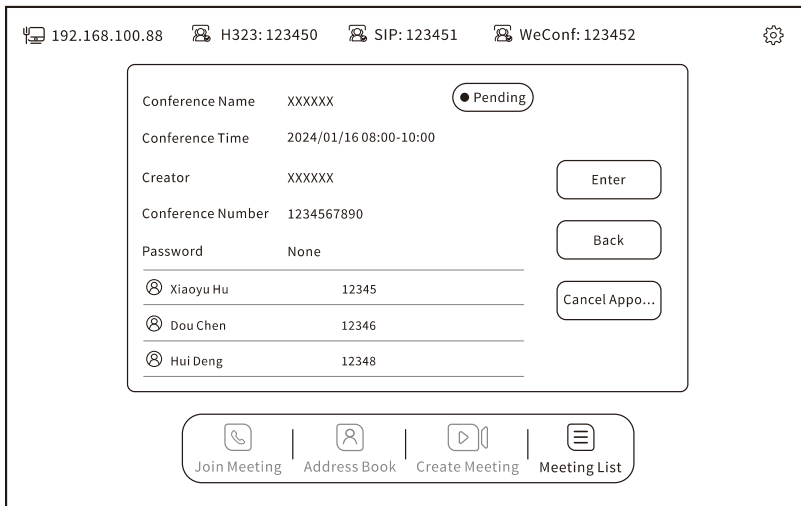
➤ Operating Steps

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:**



The screenshot shows a conference detail interface. At the top, there is a status bar with icons and text: a monitor icon, IP address 192.168.100.88, a phone icon, H323: 123450, a SIP icon, SIP: 123451, a WeConf icon, WeConf: 123452, and a settings gear icon. The main content area is a white box with a light blue border. It contains the following information: Conference Name: XXXXXX, Conference Time: 2024/01/16 08:00-10:00, Creator: XXXXXX, Conference Number: 1234567890, Password: None. To the right of the Conference Name is a button labeled "Pending". Below the main information is a table of participants:

Name	Number
 Xiaoyu Hu	12345
 Dou Chen	12346
 Hui Deng	12348

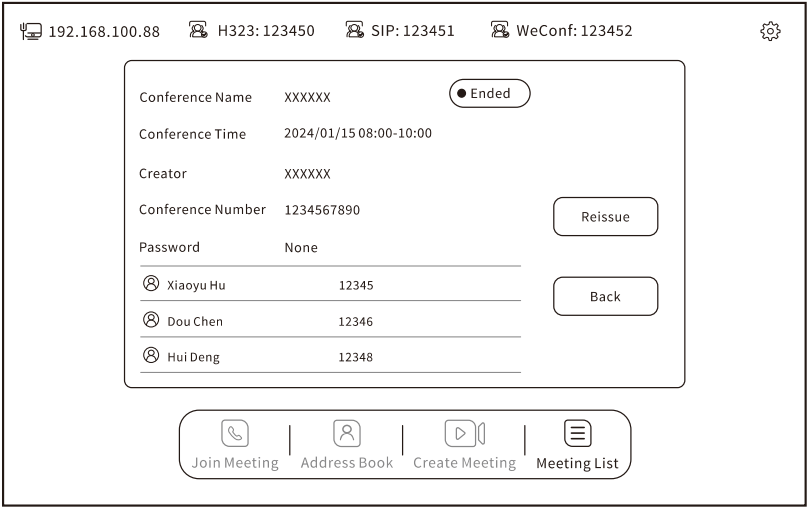
To the right of the participant table are three buttons: "Enter", "Back", and "Cancel Appo...". At the bottom of the interface is a navigation bar with four icons and labels: "Join Meeting" (phone icon), "Address Book" (person icon), "Create Meeting" (play icon), and "Meeting List" (list icon).

Step 1 Select “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:**



- 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.

5.4.3 Create WeConf Meeting (Optional)

After registering the 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 system. At the top, there is a status bar with four icons and their corresponding values: a monitor icon for '192.168.100.88', a phone icon for 'H323: 123450', a SIP icon for 'SIP: 123451', and a person icon for 'WeConf: 123452'. A settings gear icon is located in the top right corner. The main form area contains the following fields and controls:

- Conference Na...:** A text input field with the placeholder 'Conference Name' and a character count '0/30'.
- Conference Type:** Two radio buttons, 'Immediately' (selected) and 'Appointment'.
- Password:** A toggle switch currently in the 'off' position.
- Conference Du...:** A duration selector showing '1h 0h' with a slider ranging from 0 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, there is a navigation bar with four icons and labels: a phone icon for 'Join Meeting', a person icon for 'Address Book', a play button icon for 'Create Meeting', and a list icon for 'Meeting List'.

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.

5.5 Call Answering

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



- Select the interface button “A small icon representing a document or note, consisting of a square with a folded corner and a horizontal line.

Note

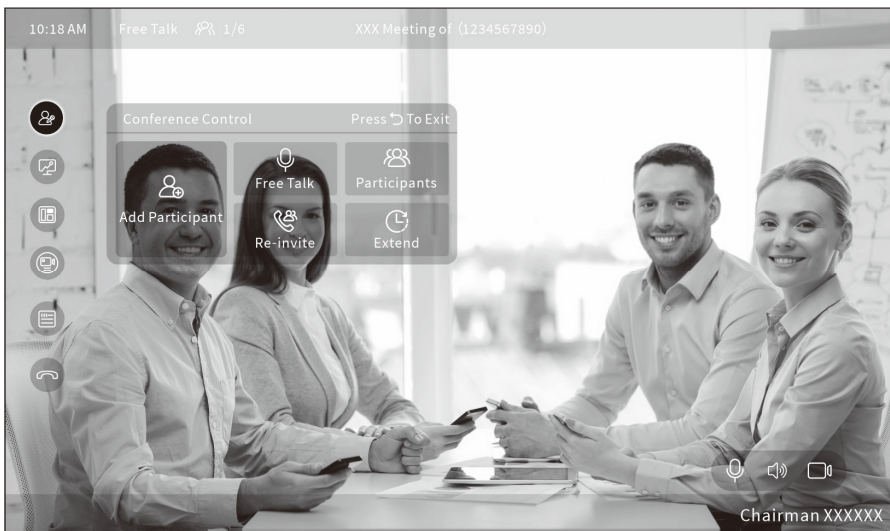
If the incoming call is from a contact stored in the address book, it will display the contact's name and number. Otherwise, only the caller's number will be displayed.

5.6 Conference Control

In 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.

5.6.1 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.



5.6.2 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 2 Press the hang up key “” on the remote control to exit the meeting.

5.6.3 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.

5.6.4 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.

5.6.5 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.

5.7 Address Book

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

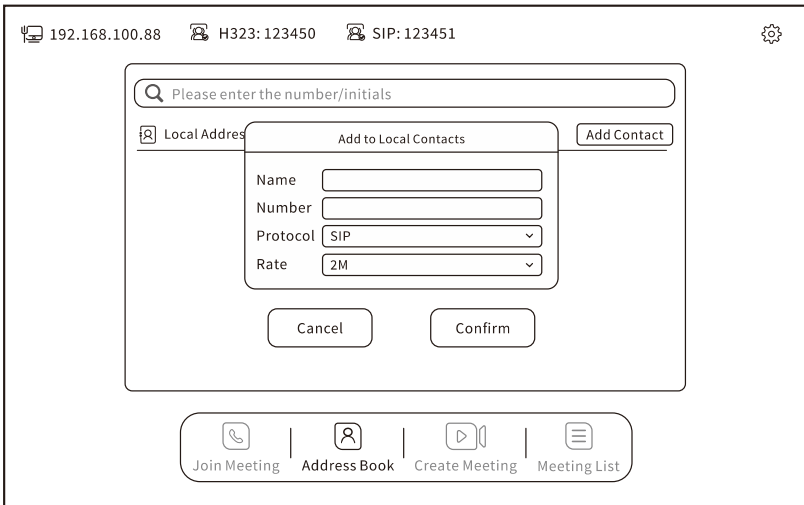
5.7.1 Local Contact

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

5.7.1.1 Add Contact

➤ Operating Steps

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



The screenshot shows the main menu interface of the terminal. At the top, there is a status bar with icons and text: a monitor icon, '192.168.100.88', a phone icon, 'H323: 123450', a person icon, 'SIP: 123451', and a settings gear icon. Below this is a large search bar with the placeholder text 'Please enter the number/initials'. Under the search bar, there is a tab labeled 'Local Address' with a person icon. To the right of the tab is a button labeled 'Add Contact'. In the center, there is a dialog box titled 'Add to Local Contacts'. Inside this dialog, there are four input fields: 'Name' (text), 'Number' (text), 'Protocol' (dropdown menu with 'SIP' selected), and 'Rate' (dropdown menu with '2M' selected). At the bottom of the dialog are two buttons: 'Cancel' and 'Confirm'. Below the dialog, there is a horizontal bar with four icons and labels: a phone icon labeled 'Join Meeting', a person icon labeled 'Address Book', a play/pause icon labeled 'Create Meeting', and a list icon labeled 'Meeting List'.

Step 2 Enter the contact Name and Number.

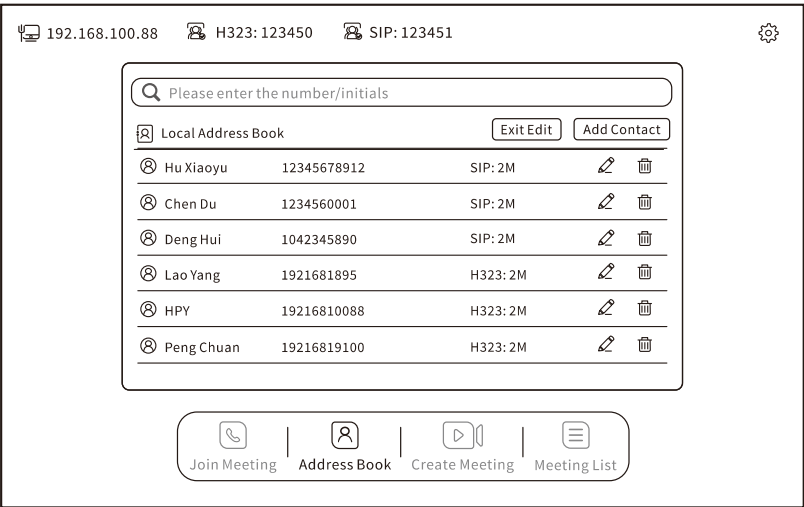
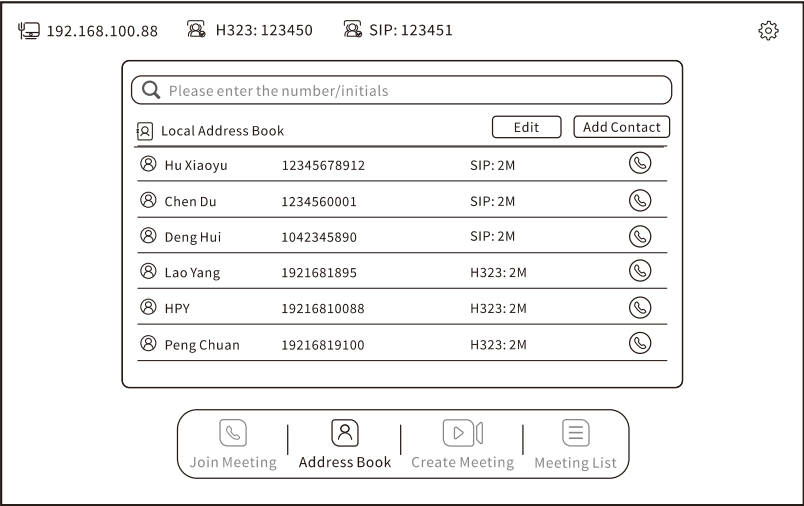
Step 3 Select the Protocol and Rate.

Step 4 Select “Confirm” to save.

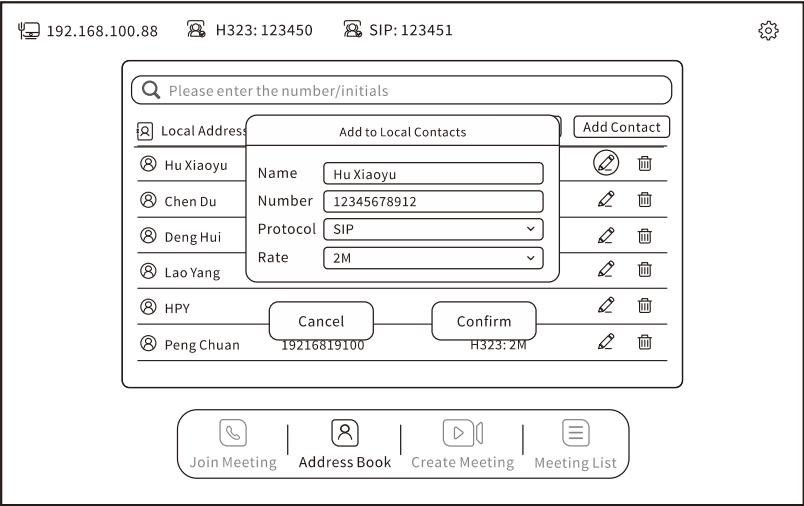
5.7.1.2 Edit Contact

➤ Operating Steps

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



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



Step 3 Edit the contact Name and Number.

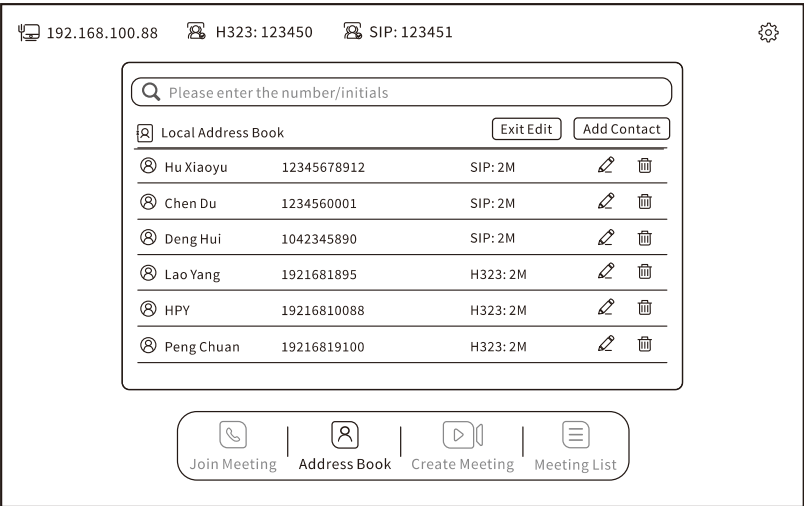
Step 4 Select the Protocol and Rate.

Step 5 Select “Confirm” to save.

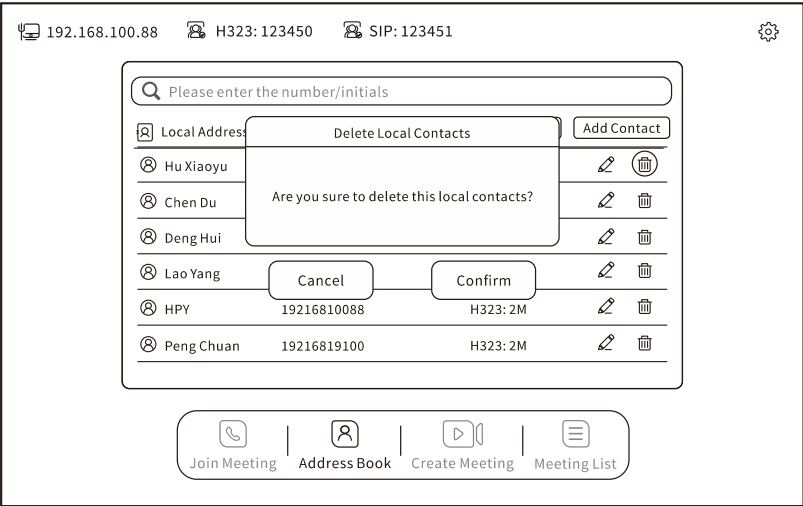
5.7.1.3 Delete Contact

➤ Operating Steps

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



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



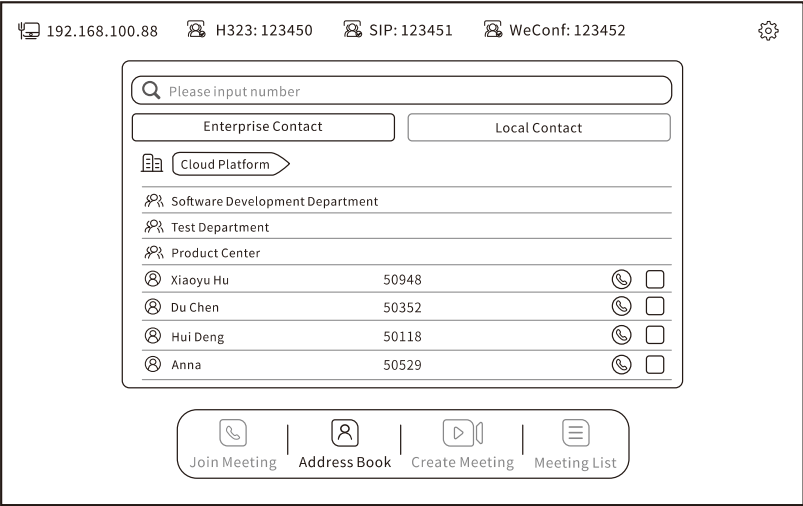
Step 3 Select “Confirm” to delete the contact.

5.7.2 Enterprise Contact (Optional)

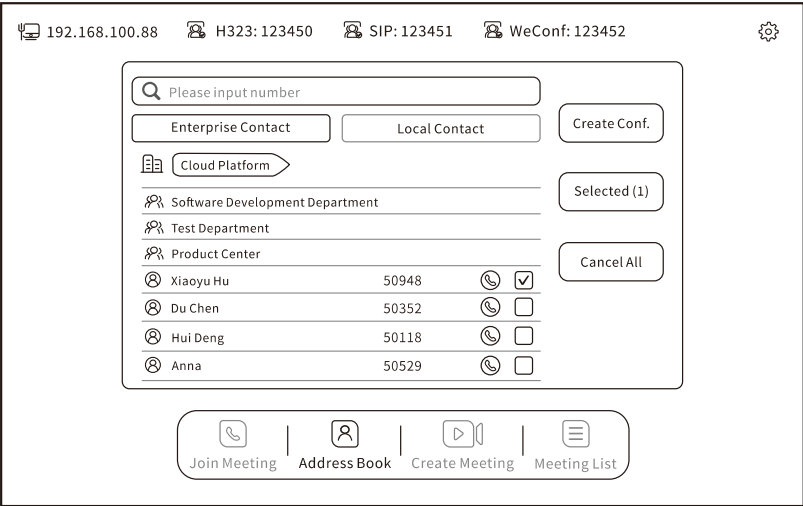
After registering a WeConf account, terminals can automatically download the contact information from the address book server and achieve synchronized updates.

➤ Operating Steps

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



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



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

The screenshot displays the 'Create Meeting' configuration interface of a video conferencing terminal. At the top, status information is shown: IP address 192.168.100.88, H323: 123450, SIP: 123451, and WeConf: 123452, along with a settings gear icon. The main configuration area includes a 'Conference Name' field with a character count of 0/30, 'Conference Type' options for 'Immediately' (selected) and 'Appointment', a 'Password' toggle switch, and a 'Conference Duration' slider set from 1h to 6h. Action buttons 'Create Conf.', 'Add Particip...', and 'Select Parti...' are on the right. A participant box on the left shows 'Xiaoyu Hu'. At the bottom, a navigation bar contains icons and labels for 'Join Meeting', 'Address Book', 'Create Meeting' (highlighted), and 'Meeting List'.

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

5.8 GUI Setting

5.8.1 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

5.8.2 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”.

The screenshot displays the 'Video' configuration screen. At the top, status information includes the IP address (192.168.100.88), H323 ID (123450), and SIP ID (123451), along with a settings icon. The central area is divided into three main sections: 'Mainstream Input' with 'Signal Source' set to 'HDMI1' and 'Resolution' at '3840 x 2160P30'; 'Presentation Input' with 'Signal Source' set to 'HDMI2' and 'Resolution' at '1920 x 1080P30'; and 'Video Output' with 'HDMI1' selected and 'Output Mode' set to 'HDMI'.

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
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	The default video output mode is HDMI.	Default: HDMI
	Resolution: 4KP30, 1080P60, 720P60 (The output resolution is determined through EDID negotiation, and different displays negotiate different resolutions).	Default: 4KP30
Video Output HDMI2	The default output mode is HDMI.	Default: HDMI
	Resolution: 4KP30, 1080P60, 720P60 (The output resolution is determined through EDID negotiation, and different displays negotiate different resolutions).	Default: 4KP30
Video Output HDMI3	The default output mode is HDMI.	Default: HDMI
	Resolution: 4KP30, 1080P60, 720P60 (The output resolution is determined through EDID negotiation, and different displays negotiate different resolutions).	Default: 4KP30
Media Optimization	Enable/disable the media optimization feature.	Default: Disabled

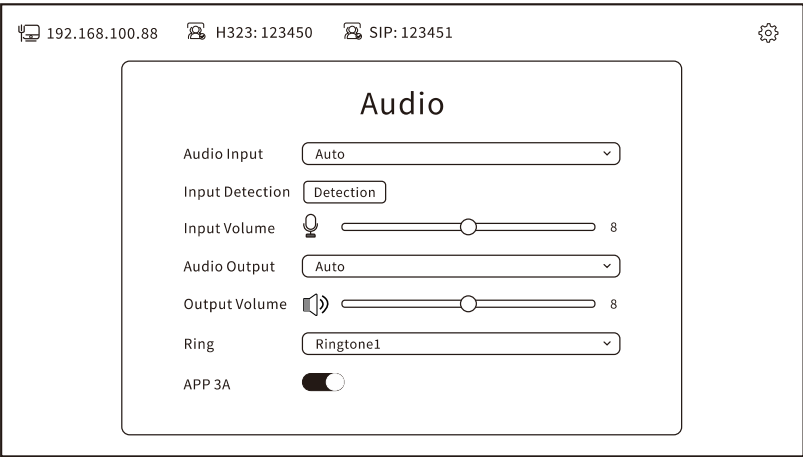
Parameter	Parameter Declaration	Parameter Setting
Camera Settings	Focusing: Select “Start” to enter the camera interface to adjust the PTZ (Pan-Tilt-Zoom).	/
	Preset position: Select “Edit” to enter the Preset Position interface to set the preset bit (1~9).	

5.8.3 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

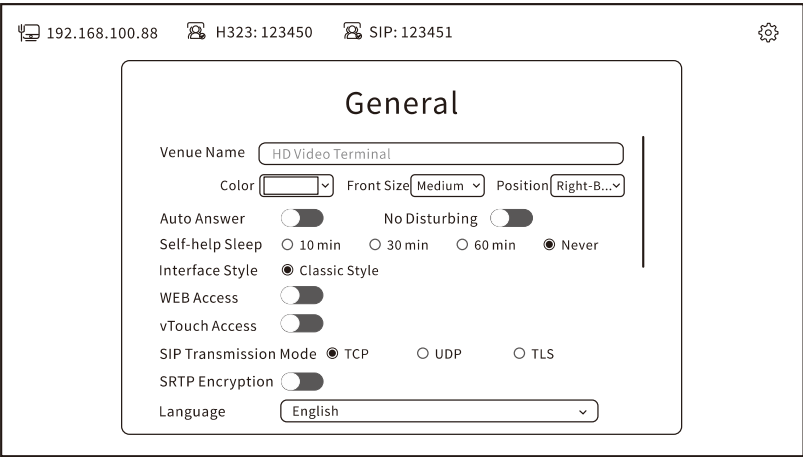
Parameter	Parameter Declaration	Parameter Setting
Audio Output	Configure the audio output: Auto, Customize.	Default: Auto
Output Volume	Configure the audio output value.	Default: 8
Ring	The default ring is Ringtone 1.	Default: Ringtone 1
APP 3A	Enable/disable the APP 3A function, when APP 3A is enabled, third-party applications will use system 3A to process the audio.	Default: Enabled

5.8.4 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”.



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 right.	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
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

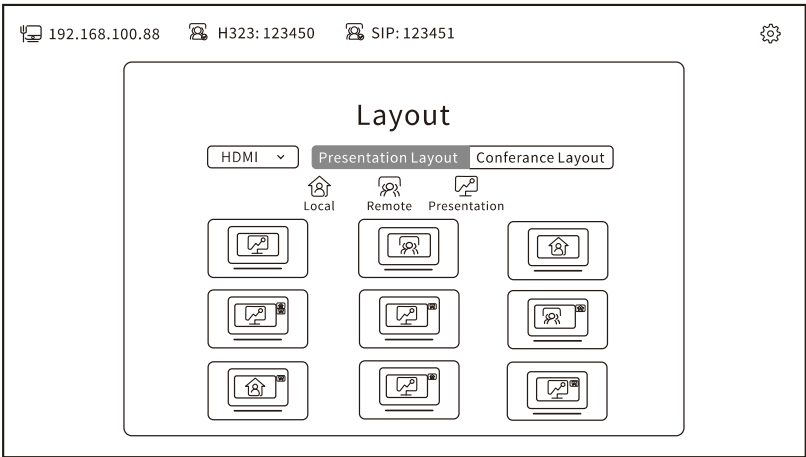
Parameter	Parameter Declaration	Parameter Setting
Language	Configure terminal system language: 中文(简体), 中文(繁体), English, Español.	Default: English
Time Zone	Select the time zone of the area.	Default: China Standard Time
Time Format	Configure the system time display format: 24 Hours Clock, 12 Hours Clock.	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

5.8.5 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.

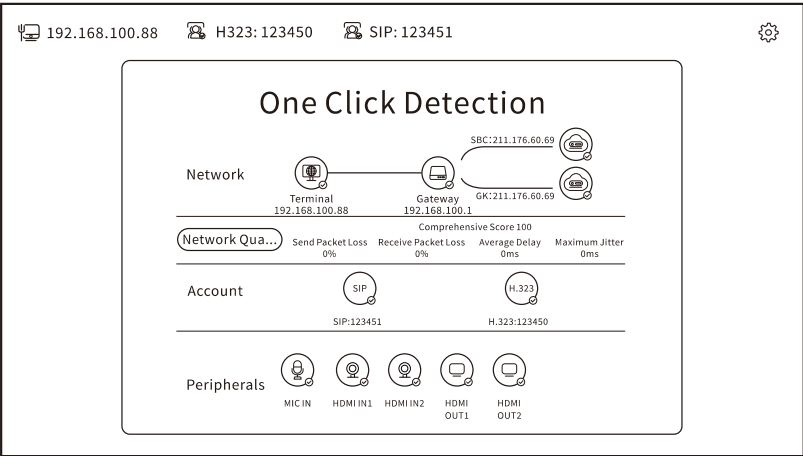
Parameter	Parameter Declaration
Layout Output Interface	Select the video output interface for switching layout.
Layout Options	Select the layout option: Presentation Layout, Conference Layout.
Presentation Layout	Configure the presentation layouts.
Conference Layout	Configure the conference Layouts.

5.8.6 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.

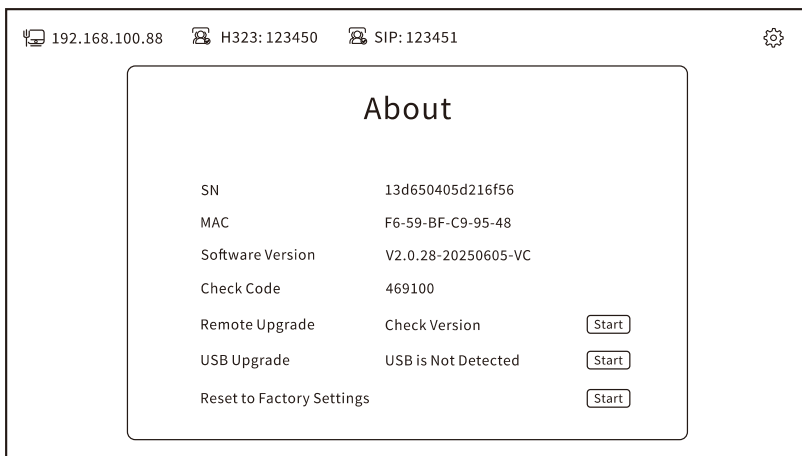
5.8.7 About

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

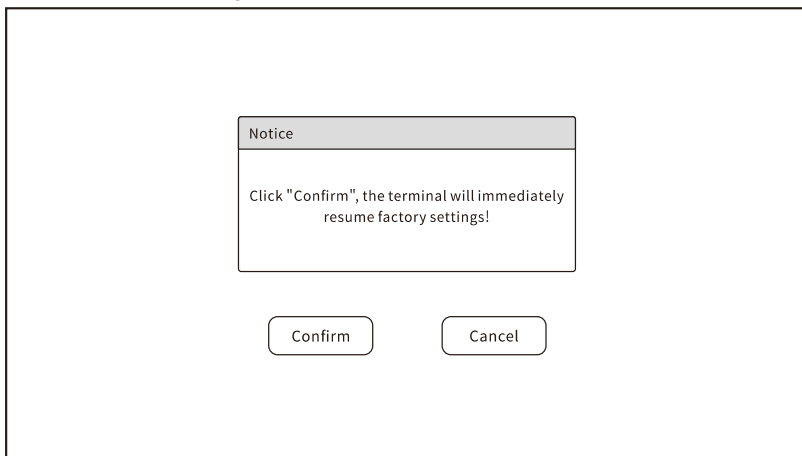
5.8.7.1 Reset to Factory Settings

➤ 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.



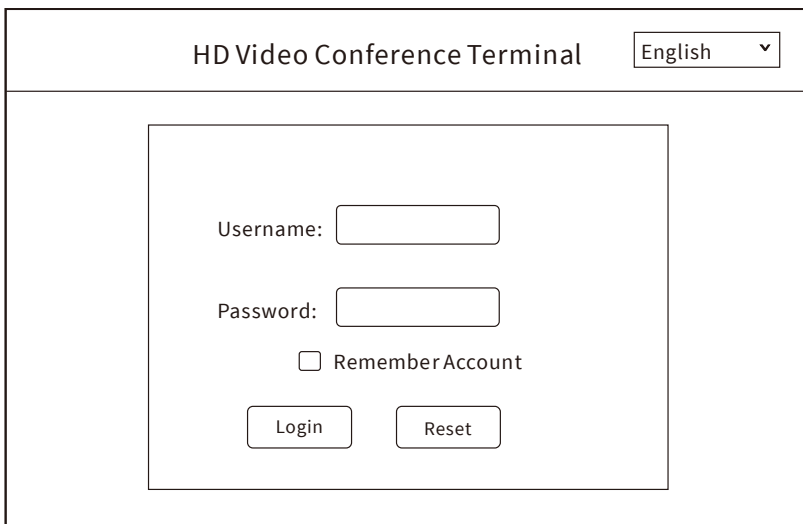
Notice

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

6 Operational (WEB)

6.1 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 ▼

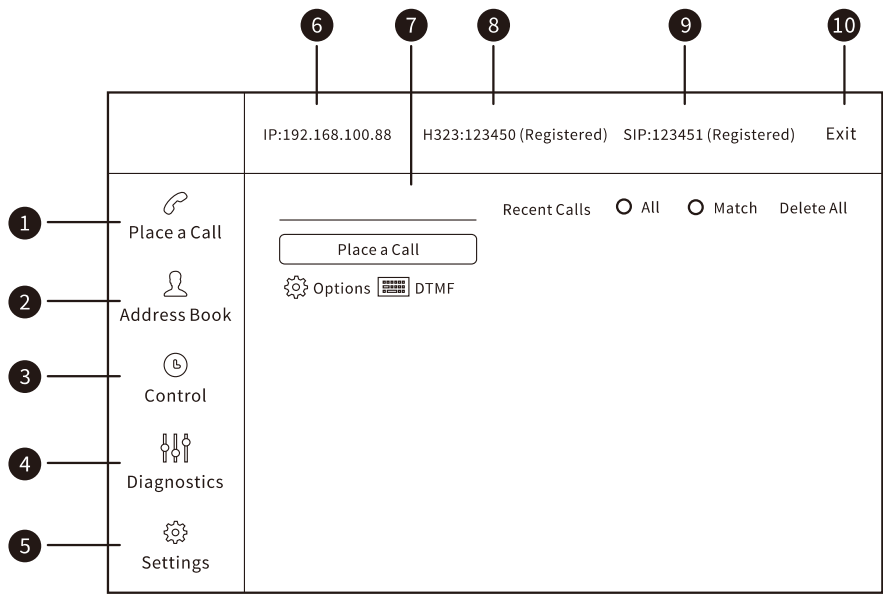
Username:

Password:

☐ Remember Account

Login Reset

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.

6.2 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.

	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

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

Parameter	Parameter Declaration	Parameter Setting
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
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.

6.3 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 Presentation Camera Control Presentation Preview Audio Control Record Control Switch Video Source Picture Switching Conference Control Conference Lock Power Control		

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.

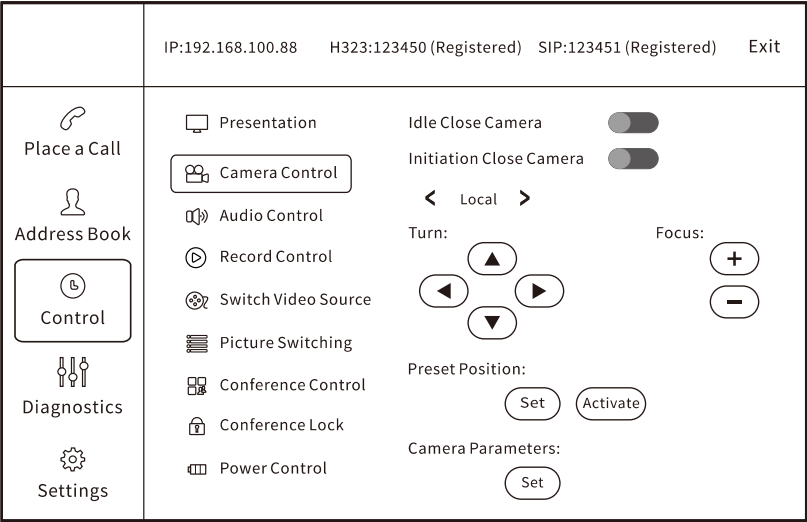
Step 3 Enter the call menu page and select “” to end the meeting.

6.4 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.
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. Fliker mode: Off, 50Hz and 60Hz. Others: Select whether to enable the Flip Vertical and Mirroring.

6.5 Diagnostics

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 Interceptio...  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.

6.6 Settings

6.6.1 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	Work Mode : < Auto >		
	IP	Network Port Speed : 1000M Full Duplex		
	Firewall	Connection Type : < Static IP >		
	Service Quality	IP Address : 192.168.100.8 8		
	IPv6	Netmask : 255.255.255. 0		
	SNMP	Gateway:192.168.100.25 4		
	Account	DNS 1 Address: 114.114.114.11 4		
	Call	Save		
	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

6.6.2 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 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)

Parameter	Parameter Declaration	Parameter Setting
Username	Username of the terminal registered on GK.	No default value (Please consult your server administrator for details)
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)

6.6.3 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

Parameter	Parameter Declaration	Parameter Setting
Transport Protocol	Select transport protocol: TCP, UDP, TLS, Auto.	Default: TCP
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 of 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)

6.6.4 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”.

Place a Call

Address Book

Control

Diagnostics

Settings

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

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

6.6.5 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.

6.6.5.1 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

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Parameter	Parameter Declaration	Parameter Setting
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

6.6.5.2 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: < Presentation... >

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”.

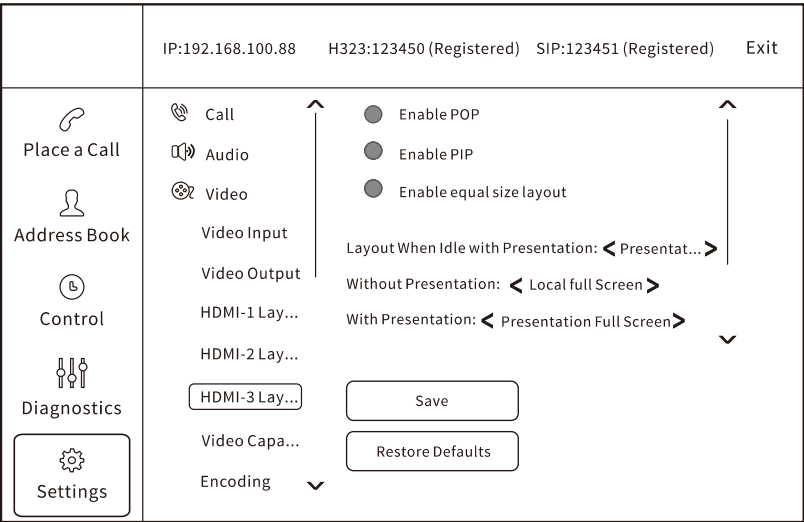
Parameter	Parameter Declaration	Parameter Setting
Enable POP	Select whether to enable the POP layout. If not enabled, all POP layouts will not be displayed.	Default: Disabled
Enable PIP	Select whether to enable the PIP layout. If not enabled, all PIP layouts will not be displayed.	Default: Disabled
Enable Equal Size Layout	Select whether to enable the equal size layout. If not enabled, all equal size layouts will not be displayed.	Default: Disabled

Parameter	Parameter Declaration	Parameter Setting
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

6.6.5.3 HDMI-3 Layout

➤ Operating Steps

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



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

Parameter	Parameter Declaration	Parameter Setting
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

6.6.6 System Security

➤ Operating Steps

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

	IP:192.168.100.88 H323:123450 (Registered) SIP:123451 (Registered) Exit		
Place a Call Address Book Control Diagnostics Settings	Security TLSAuth... System Sec... H323 Media ... SIP Media Se... WEB Login A... Protocol Subtitles Language	TLS: < TLSv1.2 > USB Management: < USB Enabled > ☒ Enable HTTP Service ☐ Enable HTTPS Service HTTP Access Password: HTTP Port: 8081 Save Restore Defaults	↑ ↓

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

Parameter	Parameter Declaration	Parameter Setting
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 administrator 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

6.6.7 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.

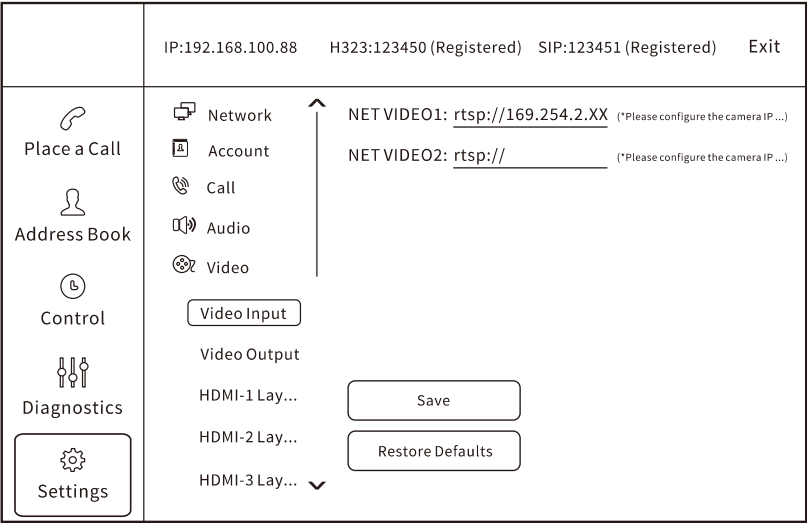
7 Network Streaming

Prerequisites: Terminal supports RTSP streaming, the NET VIDEO 1 IP must be in the 169.254.2.X network segment, and the NET VIDEO 2 IP must be in the 169.254.0.X network segment.

➤ **Operating Steps**

Step 1 Connect a camera to the NET VIDEO1 or NET VIDEO2 interface of the terminal via a network cable.

Step 2 Enter the WEB configuration page, select “⚙️ > Video> Video Input”.



Step 3 Configure the terminal IP. The system will automatically pop up the “NET VIDEO1/ NET VIDEO2 Src PlugIn” dialog box after select “Save”.

Step 4 Select “Diagnostics > Video Input”, once the terminal recognizes the resolution of the NET VIDEO camera, you can select to switch the video source to the NET VIDEO source.



Non-direct streaming is supported when the terminal and camera are on the same network segment.

8 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.

Fault Phenomenon	Possible Cause	Countermeasure
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”.
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).

Fault Phenomenon	Possible Cause	Countermeasure
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.