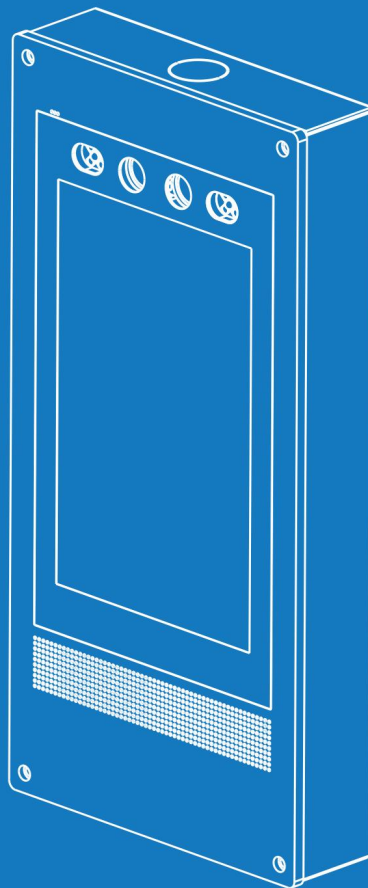


IP VIDEO INTERCOM TERMINAL

User Manual



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Summary

Safety precaution

Please abide by the warning and the relevant safety tips.

Please take this manual in convenient place after you reading the guide for future reference.

Warning



The sign means there is potential safety hazard, when operate wrong may result in death or serious injury.



The sign is used to remind user of this equipment is attached the important data of operation and maintenance.

Settings and Installation

(1) Avoid being wet with the water.

Don't make the machine or exposed to rain water or other liquid contamination of the environment, or lead to fire or get an electric shock.

(2) Don't use voltage outside of the designation.

Using the marked voltage on the machine.

Using more than the logo of voltage could lead to fire or shock.

(3) Don't scratch the power cord.

Don't scratch the power cord or cut it.

Simultaneous, keep the power line far way from heated objects, put heavy things on it will lead to fires or electric shock.

Using machine

(1) Once the anomalies

In use, immediately cut off power supply when finding the abnormal phenomena, please connect with the agency. if you continue to use, it will likely fires or shock.

·The smoke or odor of the machine.

·The inside of the machine is flooded by water or foreign bodies intrusion.

·Machine falling or machine shell damage.

·The power cord damage (wire core is exposed of broken, etc).

·Fault (eg it can't network, no sound etc).

(2) Don't open the machine internal or modification of the machine.

(3) Do not let foreign matters invade the machines internal.

Don't let the metal items or inflammable objects inserting machine such as foreign inserting machines or throw into the vents machines internal, otherwise will likely cause fires or electric shock.

(4) Avoid splashing and raining.

(5) Do not place the equipment in a humid environment.

(6) Do not place the device in an environment with strong ultraviolet rays and direct sunlight for a long time.

(7) Maintenance or the precautions when not in use for long time.

During maintenance, if the machine is not used for 10 days or more, to ensure safety, please turn off the power switch and pull out the power plug.

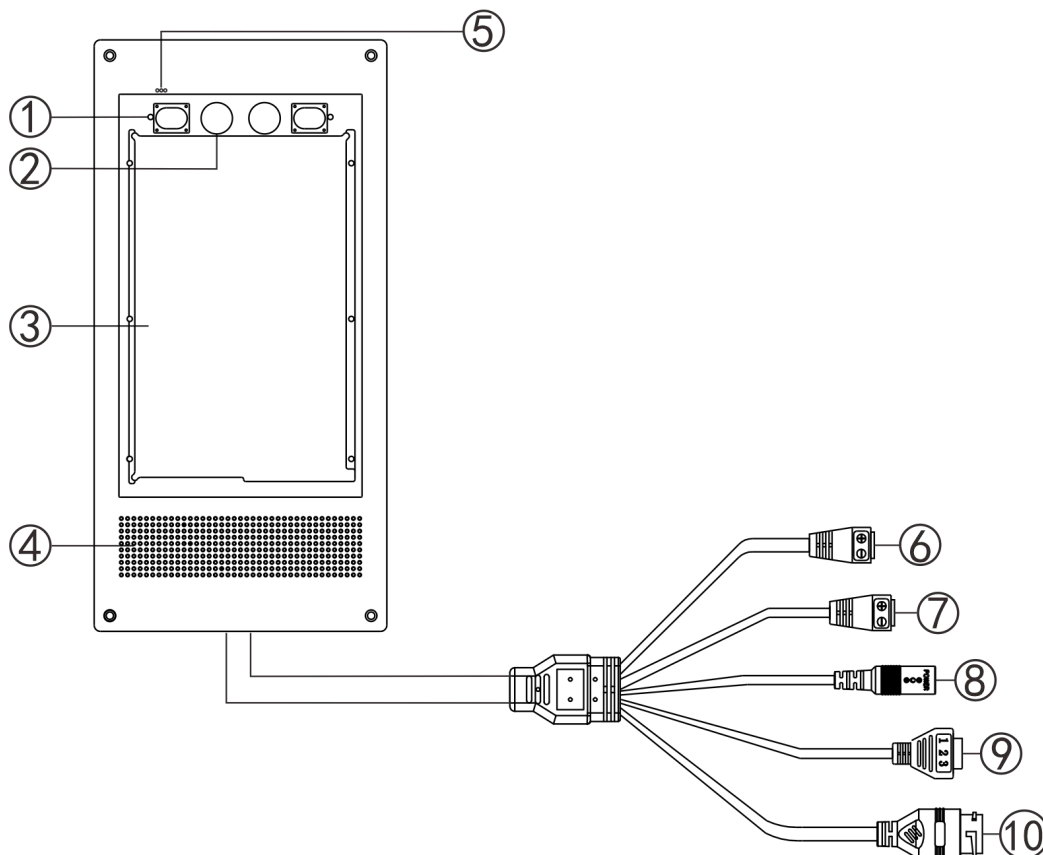
Product introduction

The IP Video Intercom terminal uses embedded IP Audio digital network audio technology with intellectual property rights to realize full-duplex video intercom. The device is equipped with power supply port, RJ 45 network port, alarm output port.

Features

- Durable, high-grade aluminum panel, compact and stylish. Support wall - mounted, weak - current box and rack - mounted.
- Independent and controllable, the core chips are made of domestic brand scheme.
- 7-inch HD touch screen with 1280 x 800 resolution.
- Built-in 3W speaker and microphone for hands-free calls and broadcast reception.
- Built-in HD digital camera, using H.264 coding, to achieve two-way visual intercom.
- Built-in digital audio processor, improve noise reduction effect, improve receiver distance and audio quality.
- Communication: support visual intercom, receive broadcast and other communication functions, can be used to trigger the alarm, call report and receive broadcast notification.
- Support logging in to a third-party SIP server.
- Users can customize the shortcut call list for one-click dialing.
- Support calling outside line.
- With alarm in and alarm output port to get a linkage with other alarm devices.
- Standard RJ45 port, accessible via a Ethernet port and LAN network.

Hardware interface introduction.



- ① Fill-in light(Reserved)
- ② Binocular camera
- ③ Touch screen
- ④ Speaker
- ⑤ Microphones
- ⑥ Line input interface (Reserved)
- ⑦ Alarm output interface: 12V voltage output after triggering alarm output.
- ⑧ Power port: DC24V/1A adapter is used to supply power to the device
- ⑨ Alarm input interface: Port 1 is GND, port 2 is alarm input 2, and port 3 is alarm input 1.
- ⑩ Network port: Connect the network cable to the switch so that the terminal can log in to the server normally. Supports POE power supply.

Note: For POE power supply, five or more types of network cables are required.

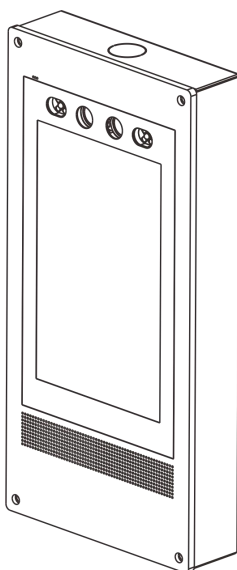
Introduction

Packing list

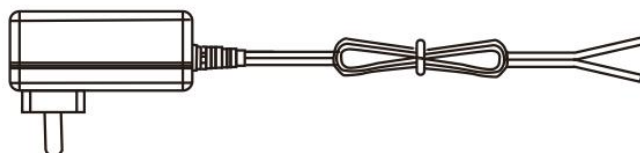
The IP Video Intercom terminal includes the following accessories.

Please check following parts. Contact your reseller if any parts are missing.

- (1) IP video intercom terminal 1pcs



- (2) Power adapter (DC24V/1A) (International standard/European standard /American standard /British standard/ Australian standard) **(Optional)** 1pcs



- (3) Hexagon socket screw(M3*8)4pcs



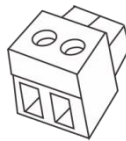
- (4) Inner hexagon L wrench(2.5)1pcs



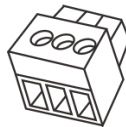
(5) Waterproof connector 1pcs



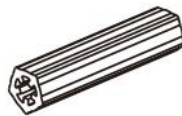
(6) Wiring terminal (3.81-2p) 2pcs



(7) Wiring terminal (3.81-3p) 1pcs



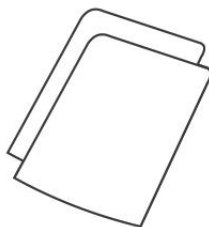
(8) Plastic swelling cover (F7) 6pcs



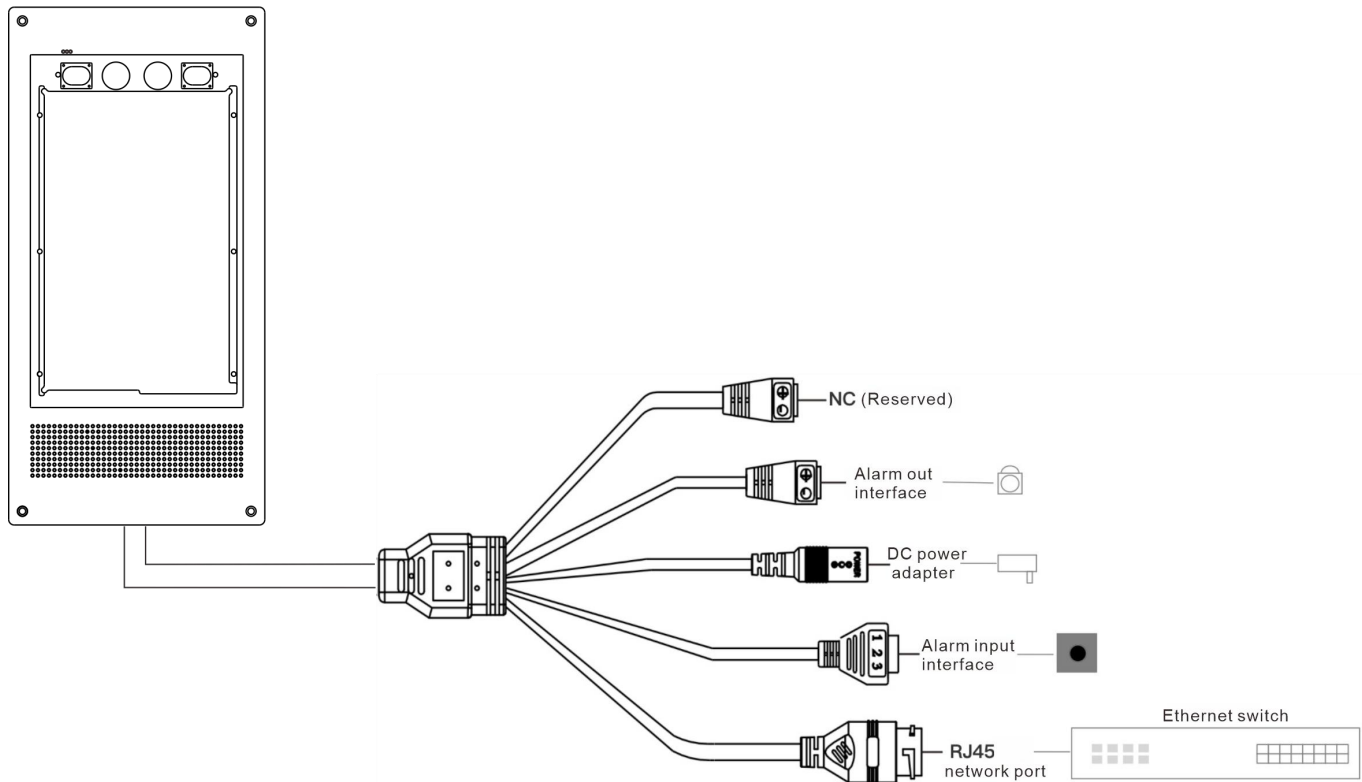
(9) Cross-pein self-drilling screw (ST4*20) 6pcs



(10) Installation manual 1 pcs

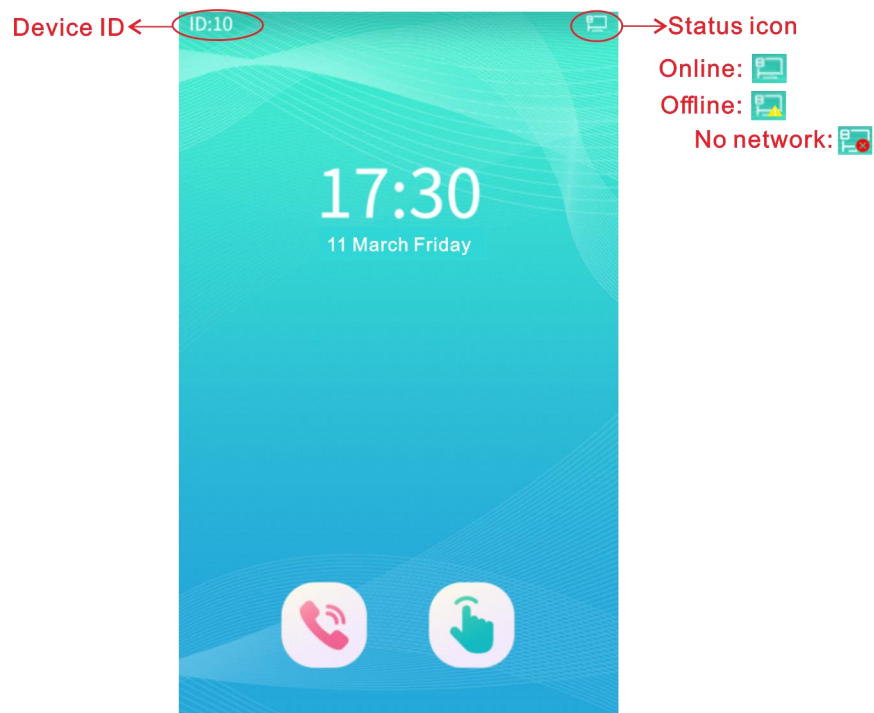


Wiring diagram



Menu Introduction

After powered on , the device will enter main menu and it will say the device ID , time , status and function icon.



Basic network settings

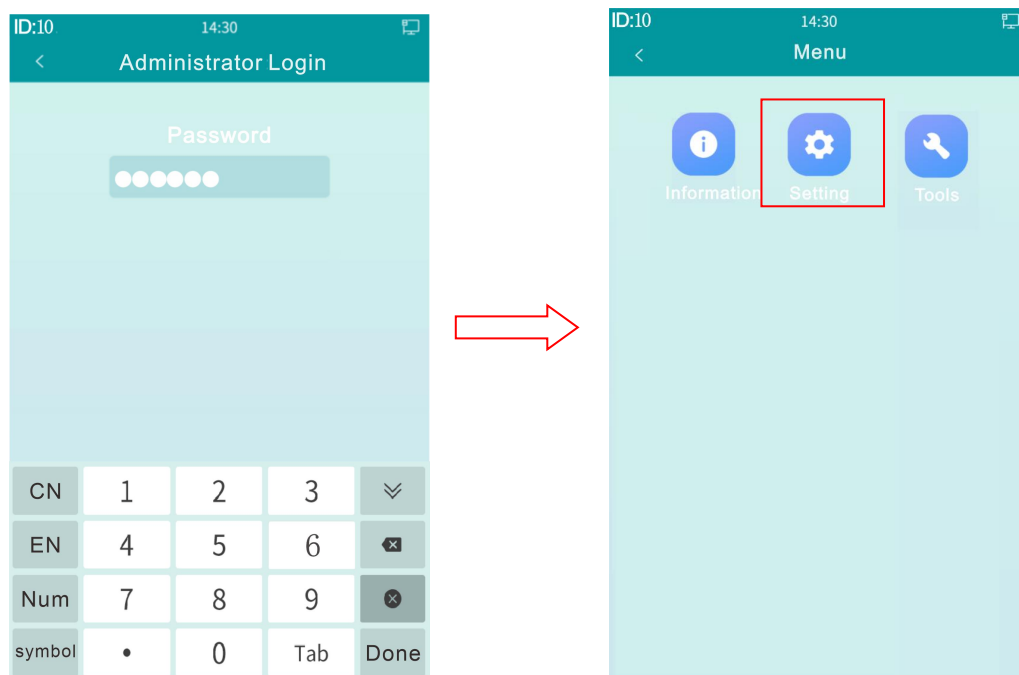
After device powered and access to network, user can follow below different methods to modify terminal's network parameters as per real situation .

Method 1:Via Device

(1) Login into administrator page

Holding down the main screen for 10 seconds to enter the administrator login page, and then enter the administrator login password. The default password is 123456.

After login,enter to the Menu page,then select"Setting".

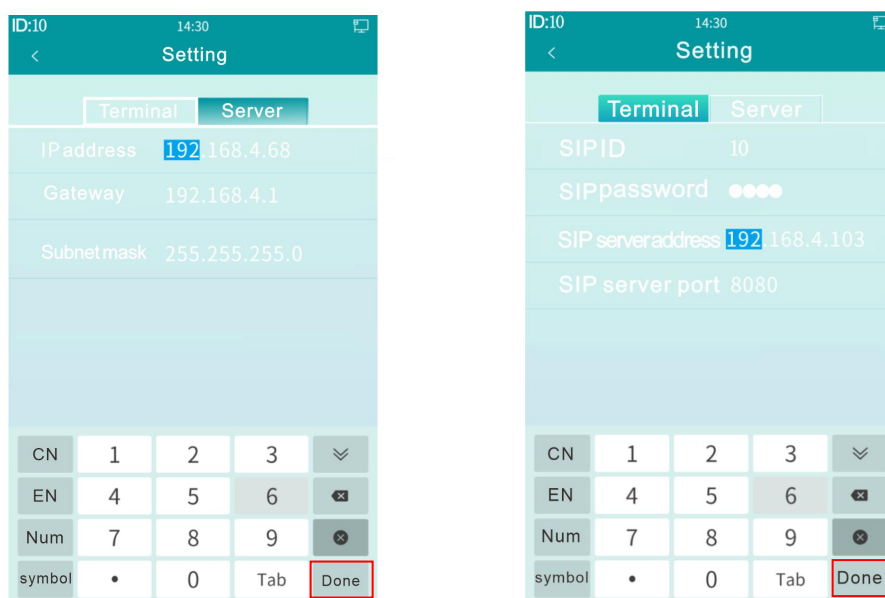


(2) Set Network parameters

①Selecting option of "Terminal" to configure parameters such as terminal IP , Subnet mask , default gateway ect. Then clicking save.

②Selecting option of "Server" to configure SIP account ,password ,server address and so on , then clicking save.

After setting, click the "OK" button at the lower right corner of the numeric keypad and restart the device to take effect.



Method two:Via Web Page.

Enter the WEB UI of the IP network video intercom terminal, modify network parameters based on the onsite environment, and click Save.

For details, see “Network Parameters” and “Protocol Parameters” in User-defined Terminal Parameters.

Via Web

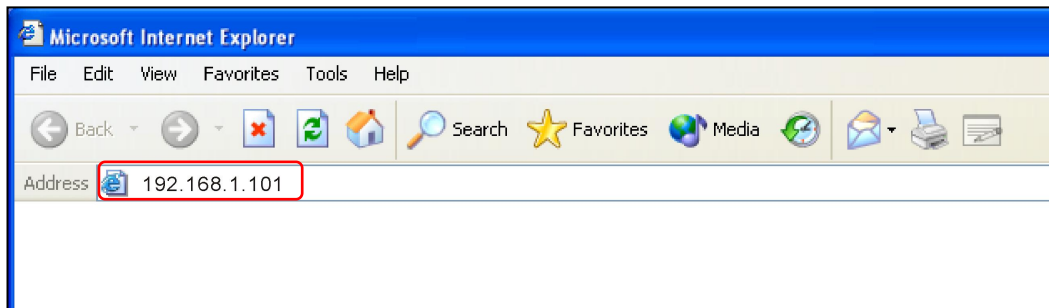
After arriving in the webpage of terminal , user can configure network parameters as per real situation and then click save.

For more details , user can refer to the network parameter configuration in Web description .

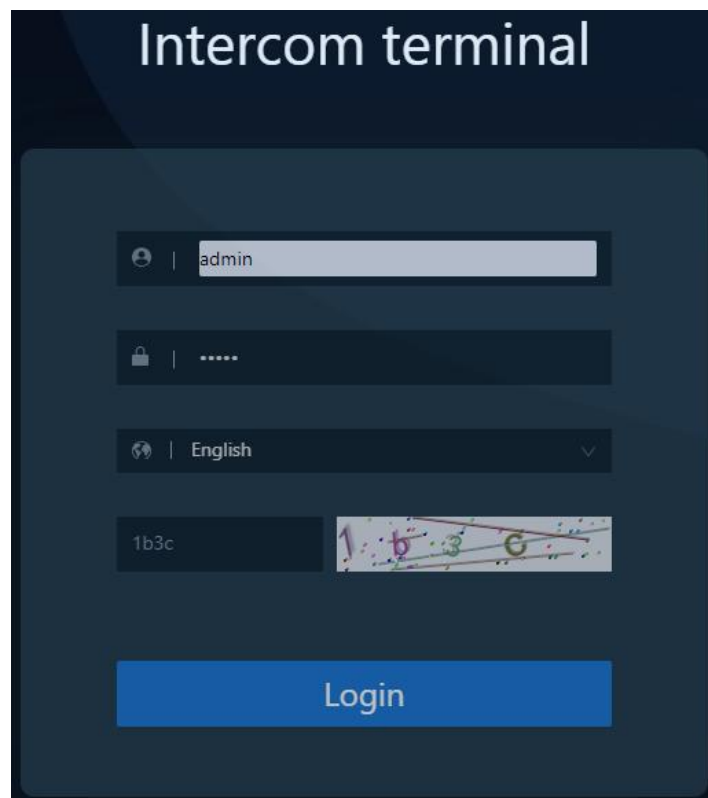
User-defined terminal parameters

Login web interface

(1)Use a web browser and navigate to the IP address of the IP internal window intercom module (factory default is http://192.168.1.101), then press Enter.



(2)Enter user name and password in the login window of the Web page (the default is : admin, password : admin).



(3)After pressing Enter, you will arrive in the configuration web page of the IP video intercom.(Note: The screenshots in this document are for reference only. For details, Please see the actual interface.)

Back to home page English admin

Running state

Running state

MAC address F4:15:35:04:F5:06

IP address 192.168.4.26 Port 5060

SIP server IP 192.168.4.101 SIP server port 5060

Subnet mask 255.255.255.0

Default gateway 192.168.4.1

Preferred DNS server 192.168.1.1

Standby DNS server 192.168.1.1

Basic settings

Network parameters

Set the network parameters of the device. Please modify each parameter in the network parameters according to the environment where the terminal is located, and click [Save] when finished.

Back to home page English admin

Network parameters Save

Network connection type IP address

Static IP 192.168.4.26

Subnet mask Default gateway

255.255.255.0 192.168.4.1

Preferred DNS server Standby DNS server

192.168.1.1 192.168.1.1

The relevant settings of the device parameters are as follows:

Network connection type	Supports static or dynamic IP address assignment. Static IP: Default static IP ,user-defined IP address and other information Dynamic IP: Assign IP address via DHCP
IP address	The IP address of the device, the factory default IP is 192.168.1.101, which cannot be repeated with other terminals.
Subnet Mask	Mask of the subnet where the terminal is located
Default Gateway	Gateway of the network where the terminal is located
Primary DNS, Secondary DNS	The IP of the domain name resolver of the network where the terminal is located

Protocol Parameters

Set the server-related parameters for terminal login, click [Save] after the modification is completed, and the parameter modification takes effect after rebooting the device.

The screenshot shows the 'Protocol settings' page. On the left is a dark sidebar with a menu containing: Running state, Basic settings, Network param..., Protocol settings (highlighted), Offline intercom, Intercom param..., systemt param..., list parameters, Alarm parameters, advanced setting, and Equipment maint... The main content area has a top bar with 'Back to home page', 'English', 'admin', and a 'Save' button. Below this, the 'Protocol settings' section contains four input fields: 'ID' (value: 1), 'SIP server IP' (value: 192.168.1.101), 'SIP server port' (value: 5060), and 'Password' (value: ****). Below these is a 'SIP local port' field with the value 5060.

The relevant settings for the protocol parameters are as follows:

ID Device ID	The unique number that identifies the terminal.It can not be repeated with the terminal or other hosts.The factory default is 1.
SIP Server IP, Sip Server Port	The preferred server address for IP video intercom terminal login, factory default is 192.168.1.13. Note: The default port is 5060, which should not be changed without special circumstances.
SIP local port	The default port is 5060.

Offline intercom

Configure the offline parameters so that the device can communicate when it is offline.

Set the offline call target ID of the Left and Right button.

The screenshot shows the 'Offline intercom' page. The sidebar is the same as in the previous screenshot. The main content area has a top bar with 'Back to home page', 'English', 'admin', and a 'Save' button. Below this, the 'Offline intercom' section contains two sub-sections. The first, 'Left button offline call target ID', has three input fields: 'ID' (value: 1), 'IP' (value: 192.168.1.131), and 'Port' (value: 5060). The second, 'Right button offline call target', also has three input fields: 'ID' (value: 2), 'IP' (value: 192.168.1.131), and 'Port' (value: 5060).

Intercom parameters

Set the intercom parameters, click [Save] after the modification is completed, and the parameter modification will take effect after restarting the device.

The screenshot shows a web interface for configuring intercom parameters. On the left is a dark sidebar with a menu containing: Running state, Basic settings, Network param..., Protocol settings, Offline intercom, Intercom param... (highlighted), system param..., list parameters, Alarm parameters, advanced setting, and Equipment maint... The main content area is titled 'Intercom parameters' and includes a 'Back to home page' link and a 'Save' button. The configuration fields are as follows:

- Intercom input volume: dropdown menu with value 9
- Intercom output volume: dropdown menu with value 9
- Ringing volume: dropdown menu with value 4
- Text broadcasting volume: dropdown menu with value 9
- Broadcasting volume: dropdown menu with value 9
- Receiving intercom: dropdown menu with value Disable
- Auto answer time: dropdown menu with value 3
- Echo cancellation: dropdown menu with value Enable

The meanings of the parameters are as follows:

Intercom Input Volume	Setting the input volume level for off-hook intercom.
Intercom Output Volume	Setting the output volume level of offline intercom. Note: The intercom input and output volume only takes effect in the offline state. When the device is online, the intercom input and output volume is controlled by the server.
Ringing volume	Set the ringing volume.
Text broadcasting volume	Set the text broadcasting volume.
Broadcasting volume	Set the broadcasting volume.
Receiving intercom	Set whether to enable the automatic answering function. After enabling , when there is an incoming call from terminal , it will automatically enter the intercom state after ringing.
Auto-answer time	Set the time of automatically entering the intercom state after ringing.
Echo cancellation	Set whether to enable echo cancellation during intercom. The default value is enable.

System Parameters

Set the system parameters, click [Save] after the modification is finished, and the parameter modification will take effect after rebooting the device.

The meanings of the parameters are as follows:

Video resolution	The precision of the screen image ,1080P, 720, VGA for optional.
Video bitrate	The video code rate is the number of bits of data transmitted per unit of time during data transmission, with an optional range (256kb~1536kb). At the same resolution, the larger the video code stream, the smaller the compression ratio, and the better the image quality. Also, the higher CPU consumption of the terminal may lead to video card, so the code flow needs to be adjusted according to the actual network situation
Screen saver	After enabling the screensaver, users can set the auto-lock time according to actual needs. The default is 30 seconds, and the terminal will automatically enter to screensaver mode according to the set time when there is no operation. Note: If the auto-lock time is set to "Disable" after the Screen saver is enabled, the terminal only needs to be unlocked once when it is turned on.

List Parameters

Set the list parameters, click [Save] after the modification is finished, and the parameter modification will take effect after rebooting the device.

ID	Show Name	Call target	Alarm port	Link trigger
1	1	16	16	Disabled
2	1	16	16	Disabled
3	1	16	16	Disabled
4	1	16	16	Disabled
5	1	16	16	Disabled
6	1	16	16	Disabled
7	1	16	16	Disabled
8	1	16	16	Disabled
9	1	16	16	Disabled
10	1	16	16	Disabled

The parameters have the following meanings::

Show name	The name displayed at terminal LCD.
Calling target	ID of target terminal.
Alarm port	Alarm port configuration.
Link trigger	After enabling, it will trigger linkage with other device when initiating a call to target terminal.

Alarm Parameters

Set the alarm parameters, click [Save] after the modification is finished, and the parameter modification will take effect after rebooting the device.

The screenshot shows a web interface for configuring alarm parameters. On the left is a dark sidebar with a menu containing: Running state, Basic settings (expanded), Network param..., Protocol settings, Offline intercom, Intercom param..., systemt param..., list parameters, Alarm parameters (highlighted in blue), advanced setting, and Equipment maint... The main content area is titled 'Alarm parameters' and includes a 'Back to home page' link and a 'Save' button. The configuration fields are as follows:

- Tamper alarm: A dropdown menu currently set to 'Disable'.
- Anti-tamper alarm linked alarm output: A dropdown menu currently set to 'Disable'.
- Alarm input-trigger intercom: A dropdown menu currently set to 'Disable'.
- Alarm input 1-linked intercom: A dropdown menu currently set to 'Left button to call'.
- Alarm input 2- linked intercom: A dropdown menu currently set to 'Left button to call'.

The parameters have the following meanings::

Tamper alarm	After enabling this function ,when terminal is disassembled , it will make alarming .
Anti-tamper alarm linked alarm output	After enabling this function ,when anti-tamper alarming is triggered, it will make a linkage of alarm output.
Alarm input-trigger intercom	After enabling this function,when alarm input is triggered , it will automatically make a linkage of alarm output.
Alarm input 1-linked intercom	After enabling this function,when alarm in No.1 is triggered , it will automatically make a linkage of left button to call or right button to call.
Alarm input 2-linked intercom	After enabling this function,when alarm in No.2 is triggered , it will automatically make a linkage of left button to call or right button to call.

Advanced Settings

User management

Can change the password for logging into the web page in User Management. After saving the password change, restart the web page to take effect. (Advised to change passwords periodically to ensure security)

Running state

Basic settings ▾

advanced setting ▲

User Management...

Admin Password...

language setting

Equipment maint... ▾

🏠 Back to home page

English ▾

admin

⋮

User Management

Save

User Name

admin

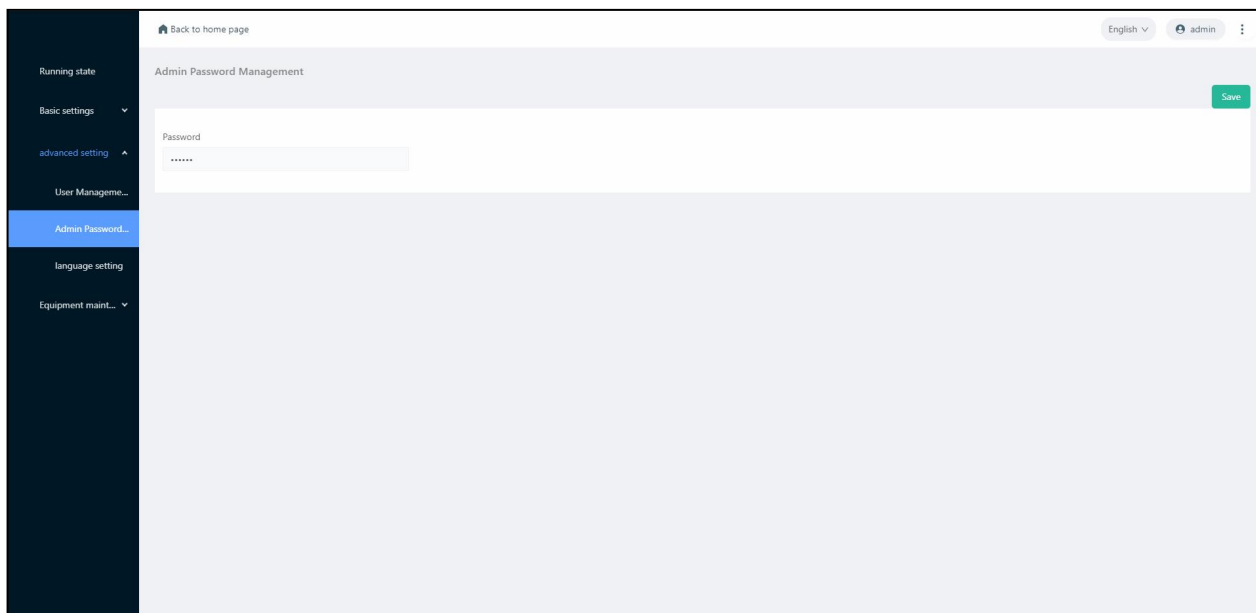
User Password

New Password

Confirm Password

Admin password management

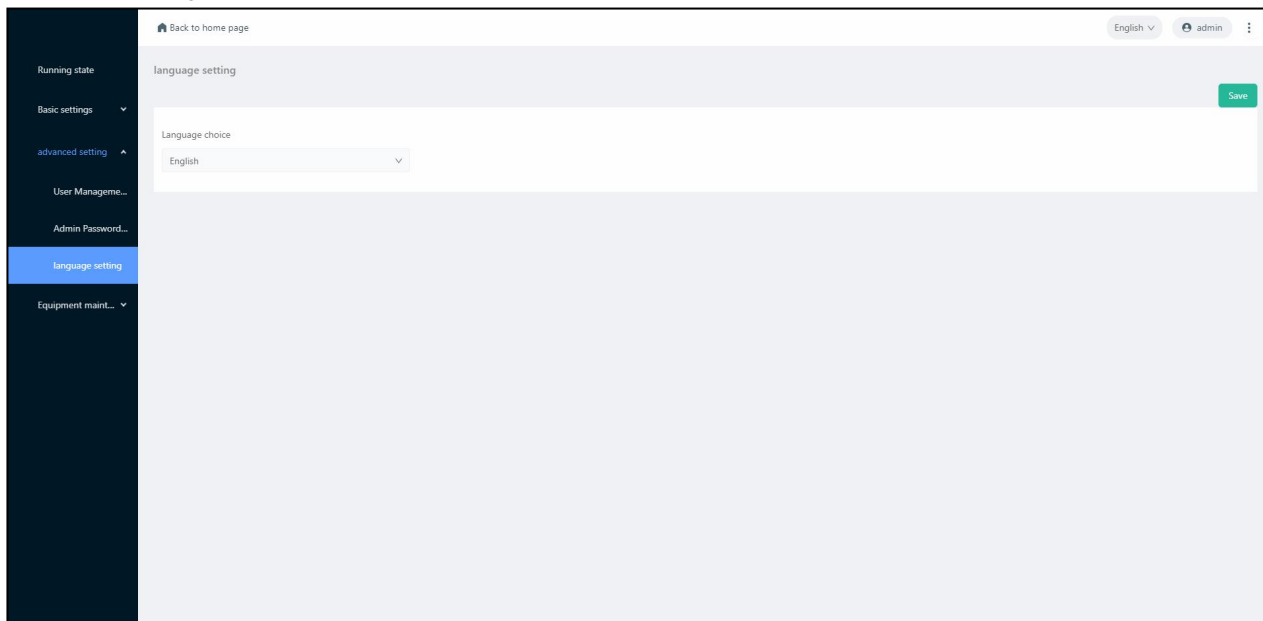
The password of terminal configuration option.Only 6-digit positive integers are supported, the default is 123456.



The screenshot shows a web interface for 'Admin Password Management'. On the left is a dark sidebar with a menu containing 'Running state', 'Basic settings', 'advanced setting', 'User Manageme...', 'Admin Password...', 'language setting', and 'Equipment maint...'. The 'Admin Password...' item is highlighted in blue. The main content area has a light gray header with a 'Back to home page' link and a 'Save' button. Below the header, there is a 'Password' label and a text input field containing six asterisks. The rest of the main area is a large, empty light gray space.

Language setting

You can switch the Web page language between Chinese and English, save the modification and restart the intercom to activate the changes.



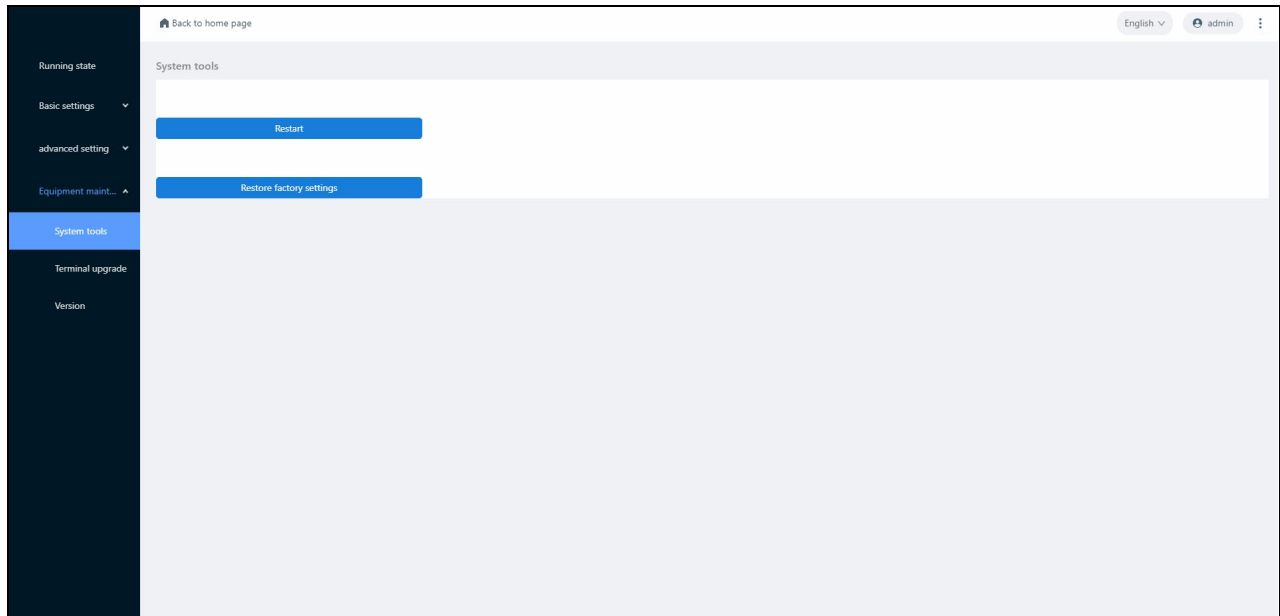
The screenshot shows a web interface for 'language setting'. The left sidebar is identical to the previous one, but 'language setting' is highlighted in blue. The main content area has a light gray header with a 'Back to home page' link and a 'Save' button. Below the header, there is a 'Language choice' label and a dropdown menu currently showing 'English'. The rest of the main area is a large, empty light gray space.

Equipment maintain

System tools

Restart: Clicking this button will reboot the device.

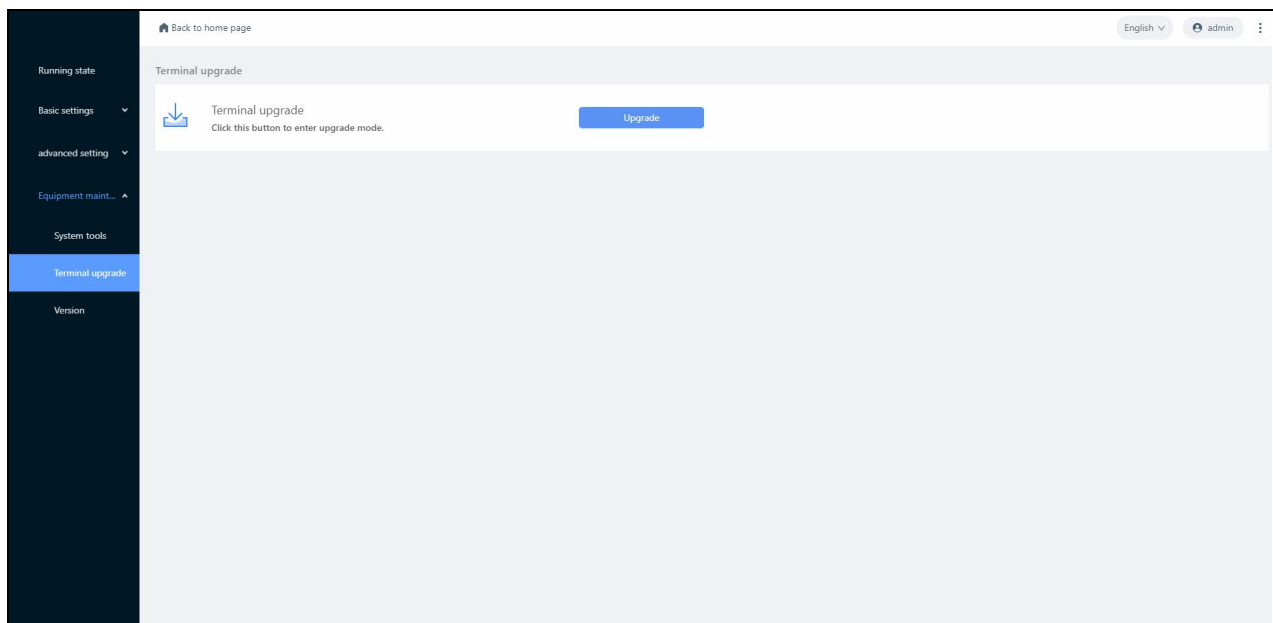
Restore factory settings: Clicking this button will restore all parameters of the device to the factory settings (please use with caution).



Terminal upgrade

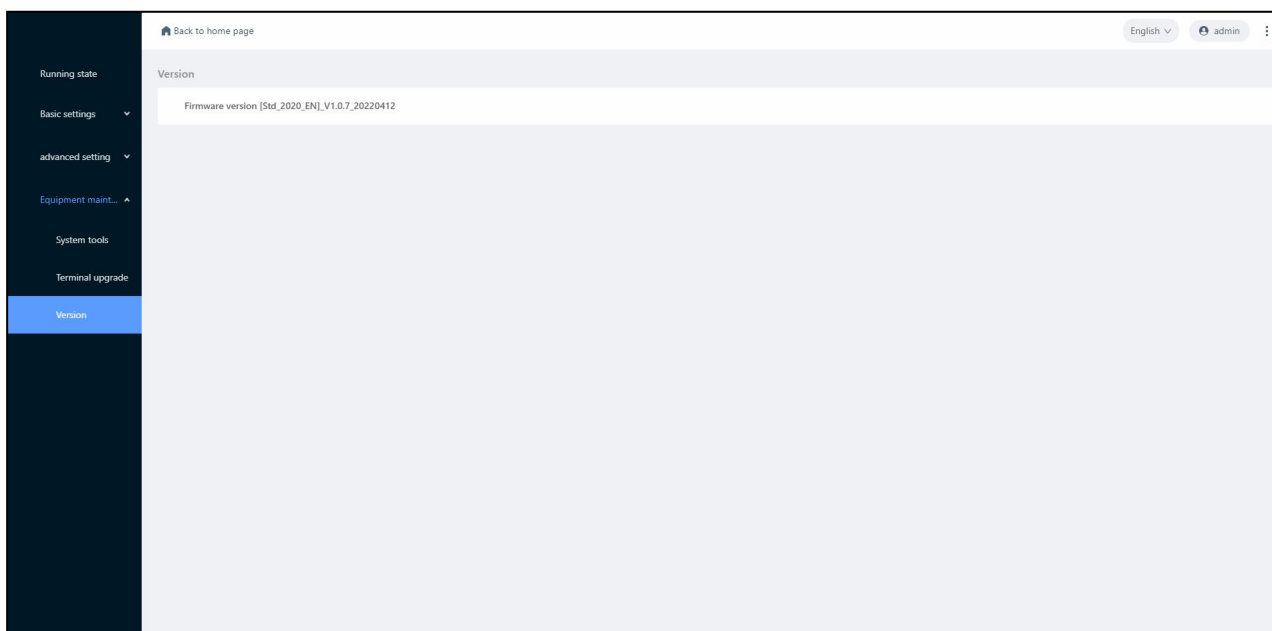
Click "Upgrade" button to enter the firmware upgrade page.

Remark :Please do not cut off power to avoid any failure of upgrade and device damage.After successfully upgrade , please restart to take effect.



Version

Showing the current firmware version of the terminal.



Other functions

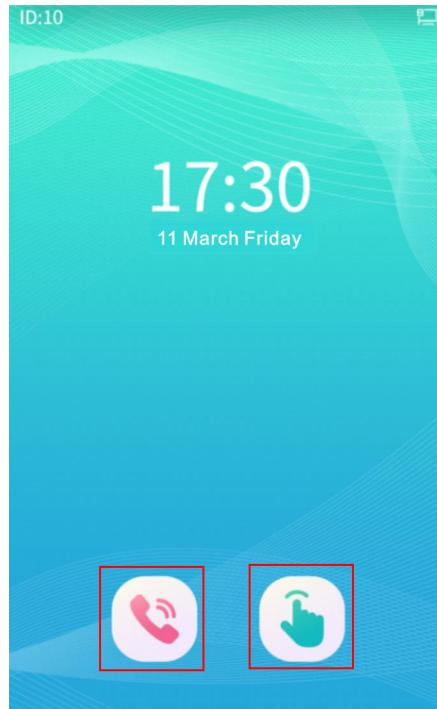
In addition to the above functions, the terminal can also cooperate with the server to realize functions such as timing ringing and real-time recording and broadcasting. For details, please refer to the service software operation guide.

Basic functions

Initiating Intercom

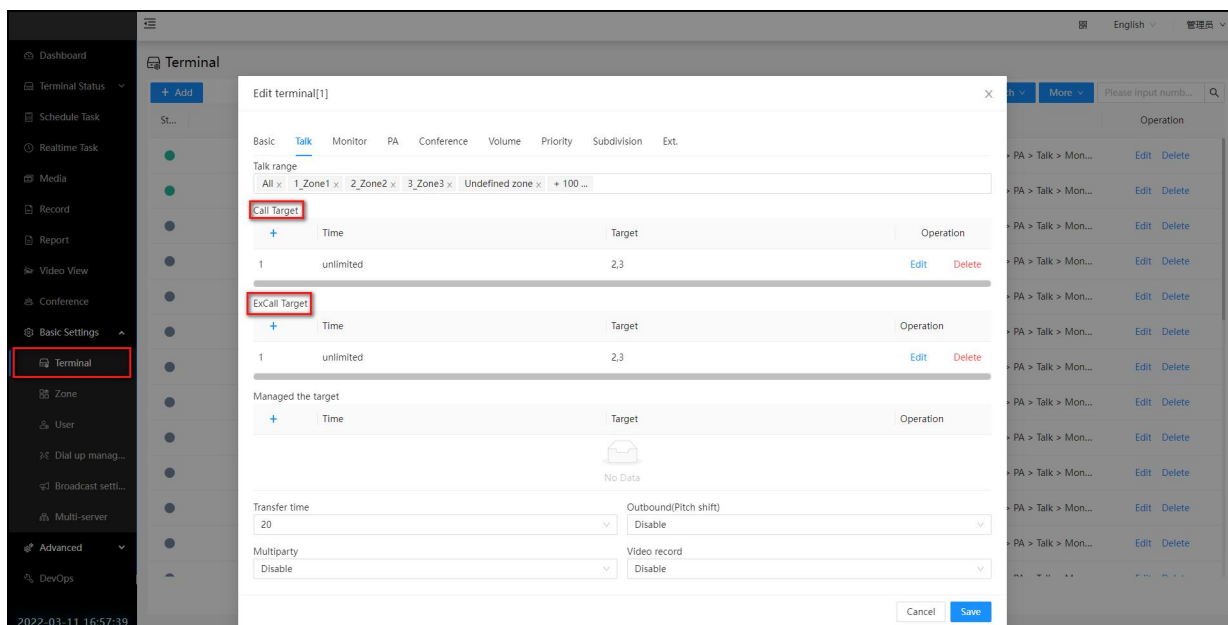
(1) The left and right call buttons on the main screen initiate intercom

On the home screen, tap two call keys to call the call target configured on the server. **(For details about how to set the call target on the server, please see the server user guide.)**



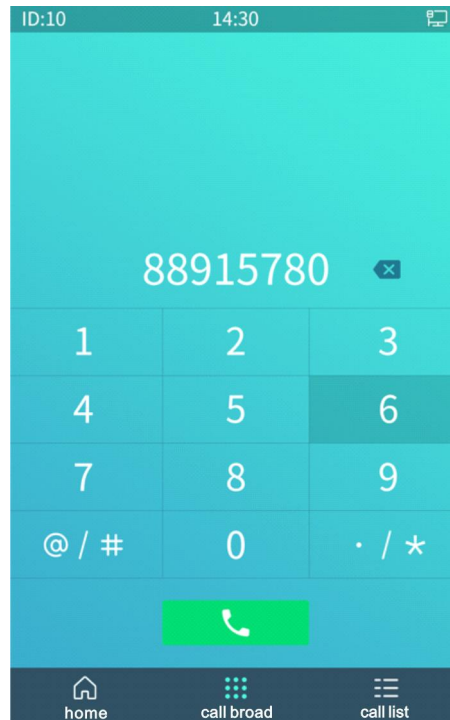
Setting call target:

Set the call target for the terminal under “Basic Settings” -- “Terminal” of the server. The set "Call Target" is the left click call target, and the "Extended Call Target" is the right click call target.



(2)Dial keyboard initiate intercom

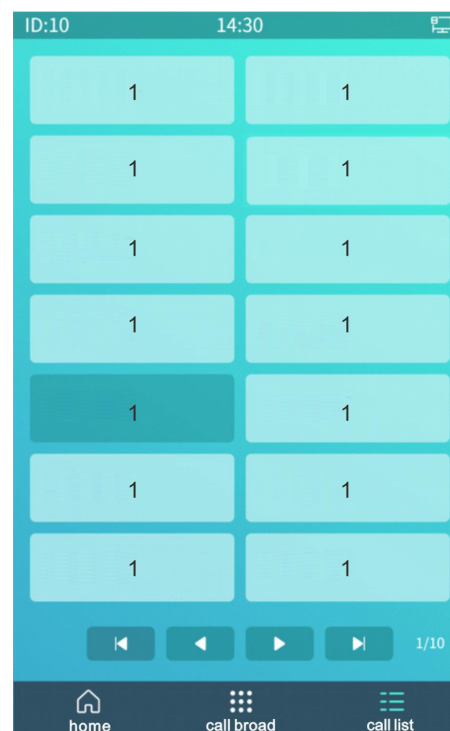
Slide left and right on the main interface, and then click “Call keyboard” to enter the Dial keyboard interface, and then enter the target terminal ID on the dial keyboard, press the dial key to initiate a call.



(3)Calling List

When arriving Calling List , press the terminal name in the list to call the designated terminal.

(If the alarm port is set in "List Parameters" on the WEB page and "Enable" linkage trigger is selected, the device will send an alarm event corresponding to the closure of the alarm port to the server, but the actual corresponding alarm port will not be closed.)



After call is answered , it will display other terminal 's video if other terminal is with camera.



Hang up Intercom: During a call, you can press hang up icon to hang up the call.

Call outside line

IP video intercom terminal can be used with IP network telephone interface to call outside lines and talk with outside lines

Receiving Intercom

Factory default is to answer the call automatically . If user disable it , then user need to answer call manually.

Receiving broadcasts

Are automatically answered without pressing any button.

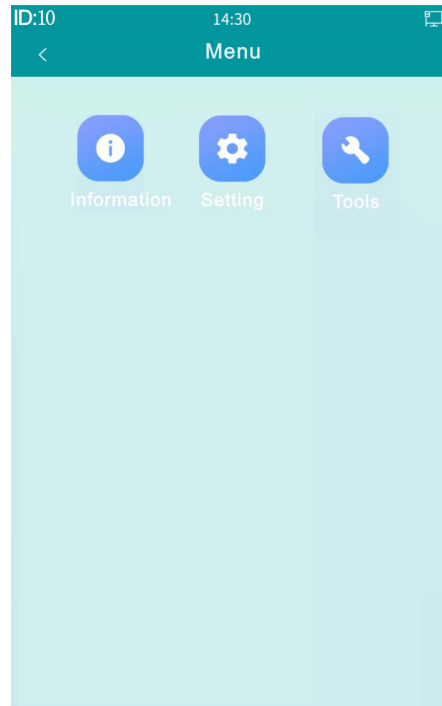
Be monitored

Supports be monitored by other terminals.

Terminal Settings

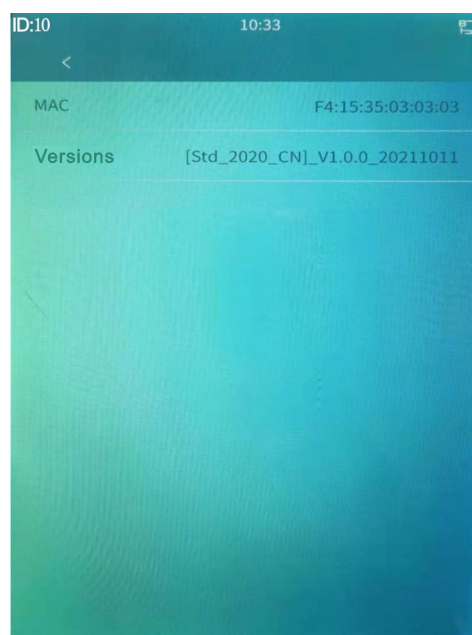
Holding down the main screen for 10 seconds to enter the administrator login page, and then enter the administrator login password. The default password is 123456.

After login,enter to the Menu page, the page displays “information”,“Settings” and “Tools”.



Information

Select“Information ”, you will find MAC address and firmware version of the device.



Setting

Select "Setting", You can modify the local IP address and SIP server information of the terminal. Press "OK" to restart the device to take it effect.

The screenshot shows the 'Setting' screen of a terminal application. At the top, there's a status bar with 'ID:10' and '14:30'. Below it, a header bar contains a back arrow and the title 'Setting'. Under the header, there are two tabs: 'Terminal' (selected) and 'Server'. The main area displays three configuration fields: 'IPaddress' with the value '192.168.4.68', 'Gateway' with '192.168.4.1', and 'Subnetmask' with '255.255.255.0'. At the bottom, there is a numeric keypad with labels 'CN', 'EN', 'Num', and 'symbol'. The keypad includes digits 1-9, 0, and symbols like a checkmark, an 'x', and a 'Done' button.

Sys tool

Select "Sys tool", You can restart the device、 restore factory Settings.

- (1)reboot device: clicking on "Restart" button can manually restart the terminal, which takes about 20 seconds.
- (2)clear user data: Reserved.
- (3)reset default set: Reserved.
- (4)reset factory: The function is restored to factory Settings.

The screenshot shows the 'sys tool' screen of a terminal application. At the top, there's a status bar with 'ID:10' and '10:34'. Below it, a header bar contains a back arrow and the title 'sys tool'. The main area displays four options, each with a description and a button: 'reboot device' (reboot time about 20s) with a 'Restart' button, 'clear user data' (clear all users data with jurisdiction) with a 'Clear' button, 'reset default set' (reset reset factory, but not users data and jurisdiction) with a 'Restore' button, and 'reset factory' (clear user data+reset default set) with a 'Restore' button.

Troubleshooting

Terminal can not login to the server?

1. Check the server software and main control computer is normally open or not. It must close all the firewall before open the service software, (including the systemic firewall and other antivirus software).
2. Check the network connection is normally working or not.
3. Check the terminal IP setting. Checking the terminal ID No., server IP, local IP and gateway IP these parameters is correct or not.

When web show abnormal?

Please clear the caches or change the browser

How to modify screen password?

1. Input new password at the option of screen password configuration , then click save.
2. Restart to take it effective.

How to modify the account number and password to login the web page?

1. Click the password setting of the web page.
2. Please input previous user name and password under the original user name and password respectively.
3. Input the new user name and password in the new one.
4. Input the new password in the command confirmation.
5. Click for save.
6. The new user name and password will be workable after restarted the equipment.

No sound output from receiving broadcast speaker?

1. Check whether the terminal volume of the SIP server and the broadcast output volume of the Web page are 0. If yes, increase the volume.

Copyright statement

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