

SPON

IP VIDEO INTERCOM TERMINAL

User Manual

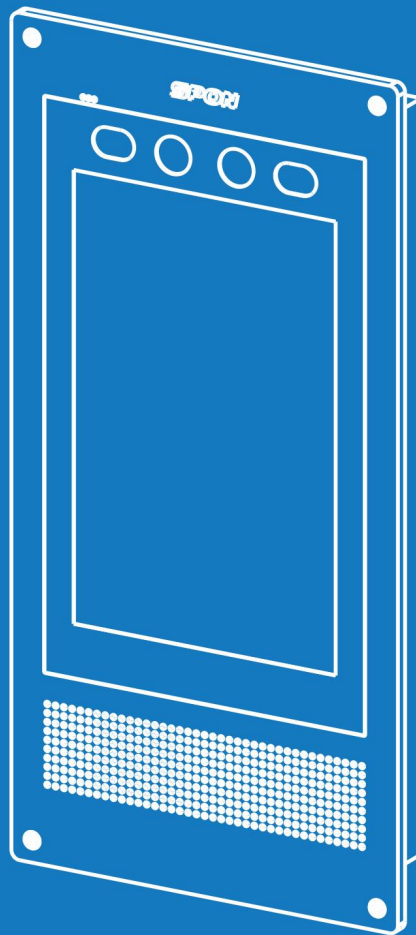


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1. Important Safety Precaution

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

During Installation:

(1) Avoid humidity:

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

(2) Use correct power supply:

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

(3) Protect the electric wire:

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

During Use:

(1) If anything goes wrong:

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

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

(2) Do not open the product shell:

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

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

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

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

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

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

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

2. Product Overview

Here is what you can find in this section:

- **2.1 Basic Introduction**
- **2.2 Product Features**
- **2.3 Hardware Interface Description**

2.1 Basic Introduction

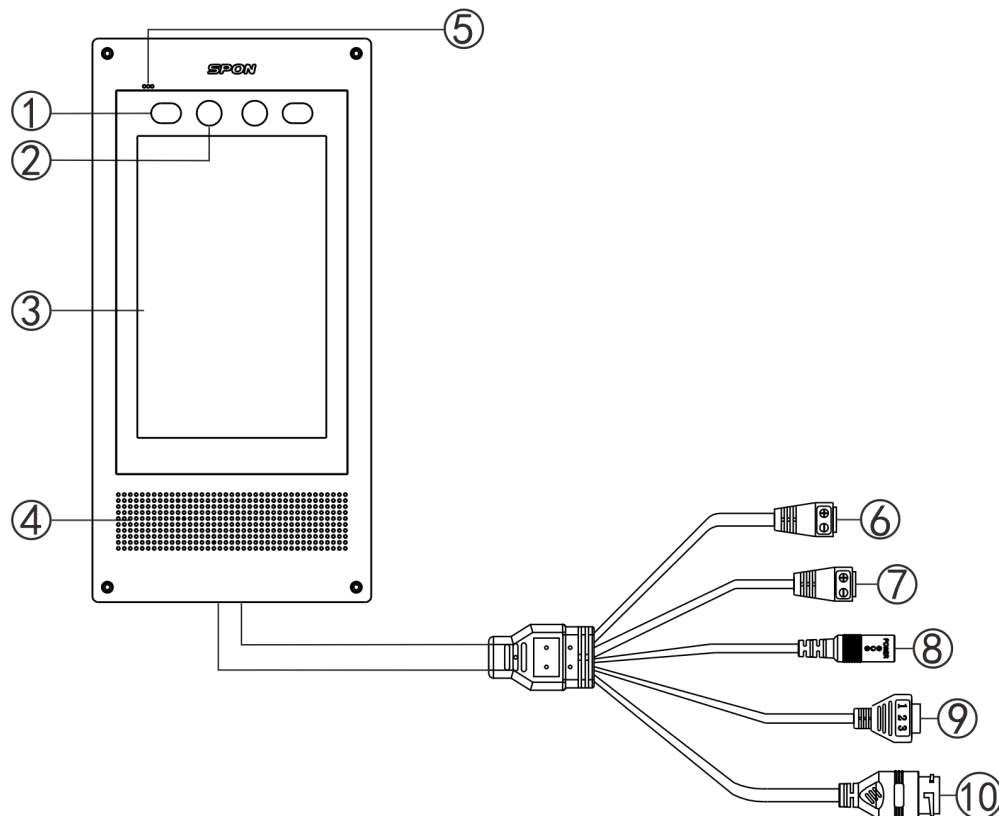
The IP Video Intercom terminal uses embedded IP Audio digital network audio technology with intellectual property rights to realize full-duplex video intercom. The device is equipped with power supply port, RJ 45 network port, alarm output port.

2.2 Product 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.

2.3 Hardware Interface Description

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.

3.Unpacking and Installation

Here is what you can find in this section:

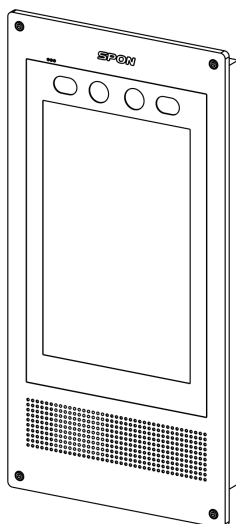
- **3.1 Packing List**
- **3.2 Wiring**

3.1 Packing List

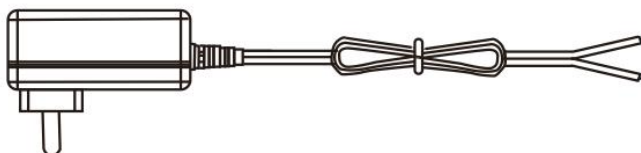
Before installing this product, check whether the accessories are complete, if there are any missing parts, please contact your local distributor.

Main parts packed in the packing box include:

- 1× IP video intercom terminal



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



- 4× Hexagon socket countersunk head screw(M3*8)



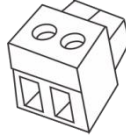
- 1× Inner hexagon L wrench(2.5)



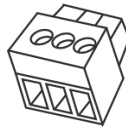
- 1× Waterproof connector



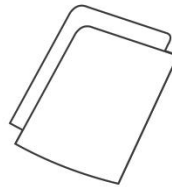
- 2× Wiring terminal (3.81-2P)



- 1× Wiring terminal(3.81-3P)



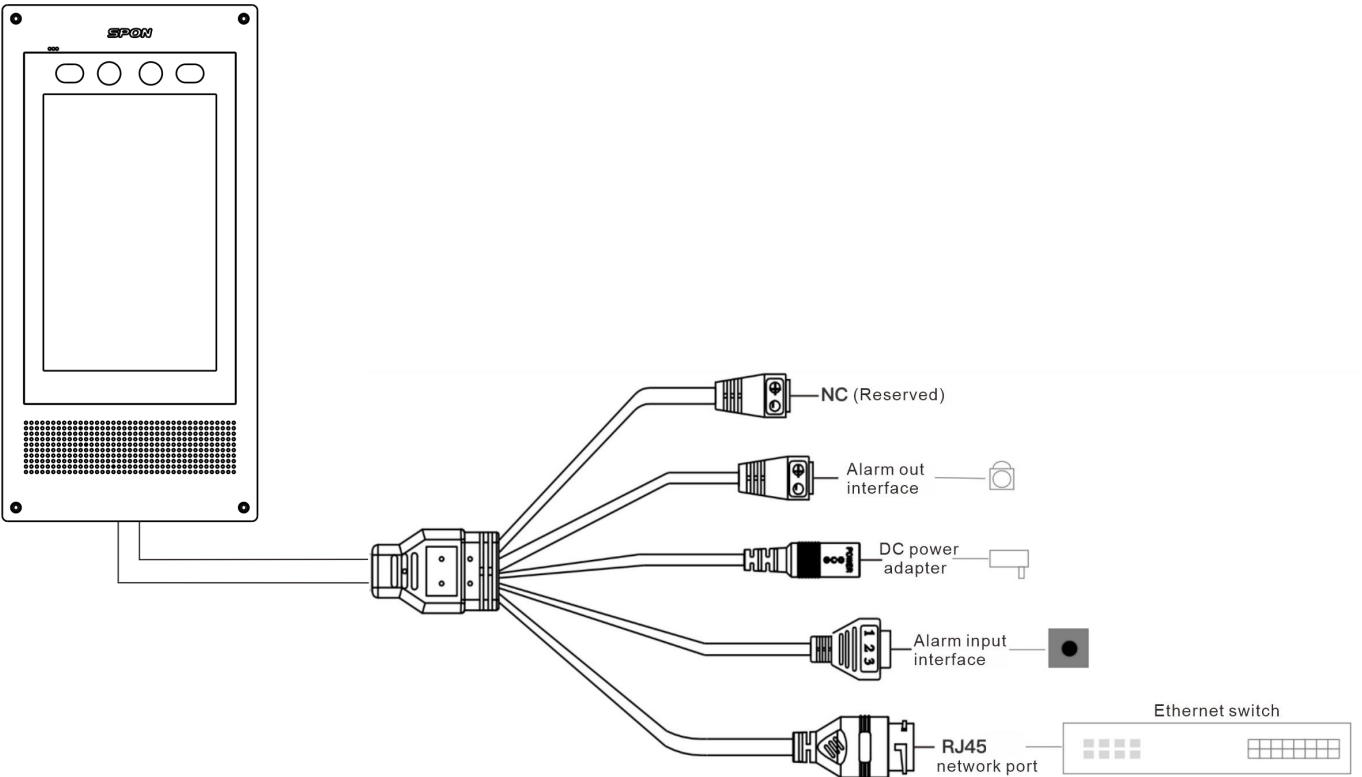
- 1× Installation manual



- 1× Certification



3.2 Wiring



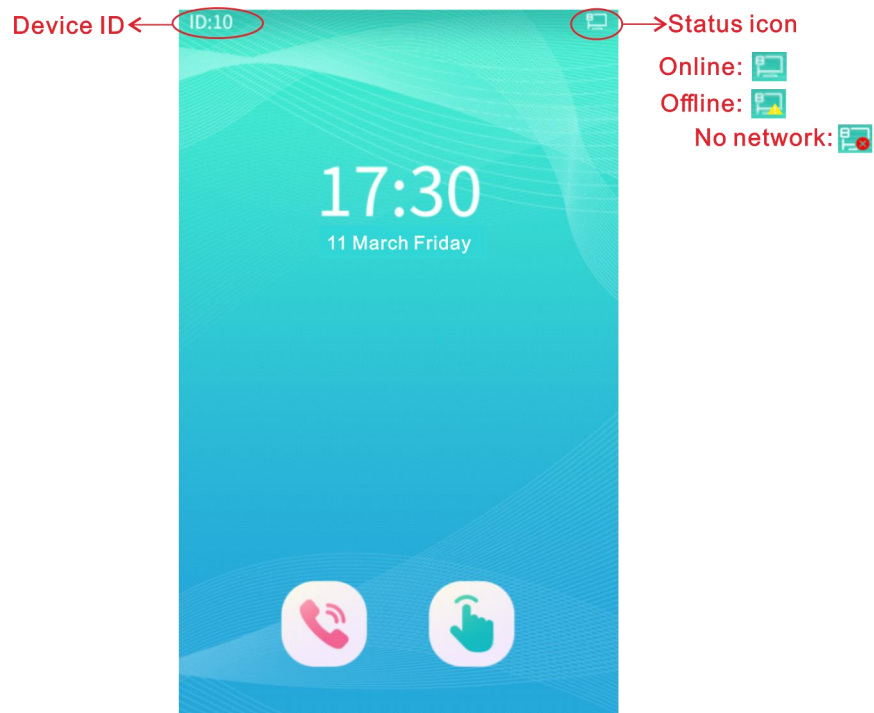
4. Quick Operation Guide

Here is what you can find in this section:

- **4.1 Menu Introduction**
- **4.2 Network Settings**
- **4.3 User-Defined Terminal Parameter Settings**
- **4.4 Basic Function**
- **4.5 Troubleshooting**

4.1 Menu Introduction

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



4.2 Network Settings

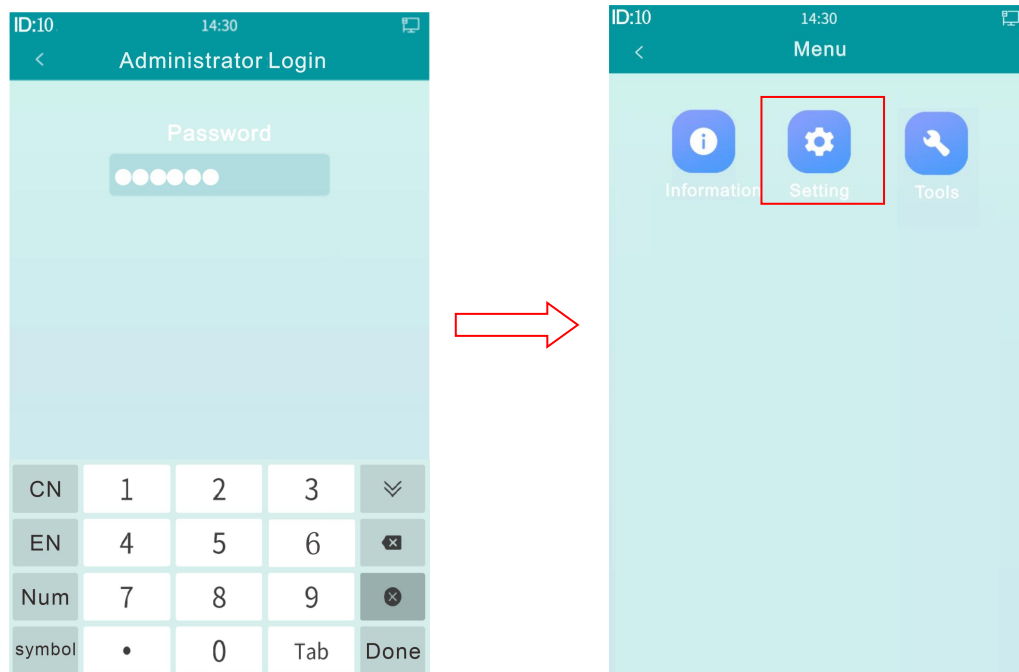
After device powered and access to network, user can follow below different methods to modify terminal's network parameters as per real situation .

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”.

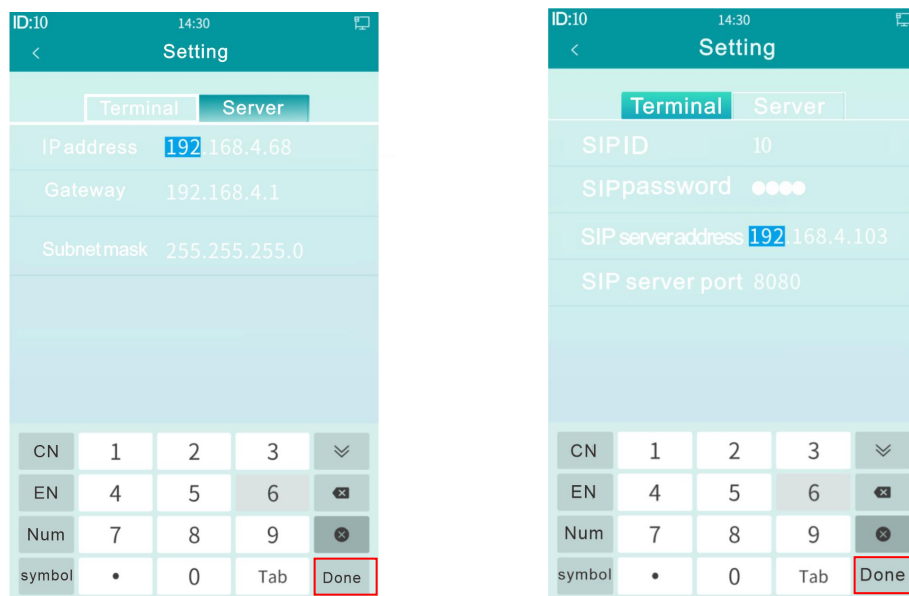


(2) Set Network parameters

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

② Selecting 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.

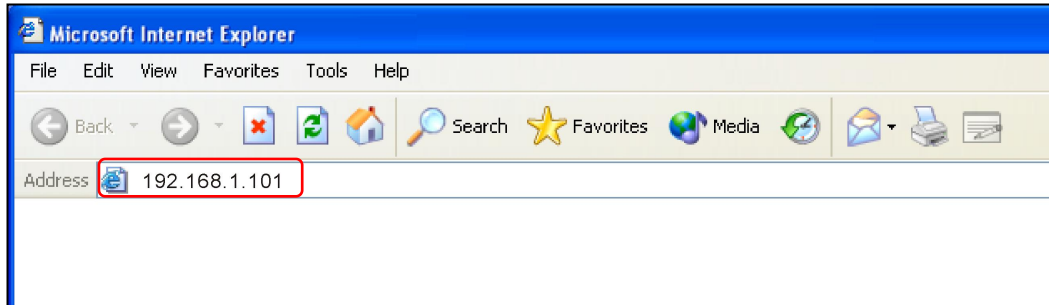
Enter the WEB UI of the IP network video intercom terminal, modify network parameters based on the onsite environment, and click Save.

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

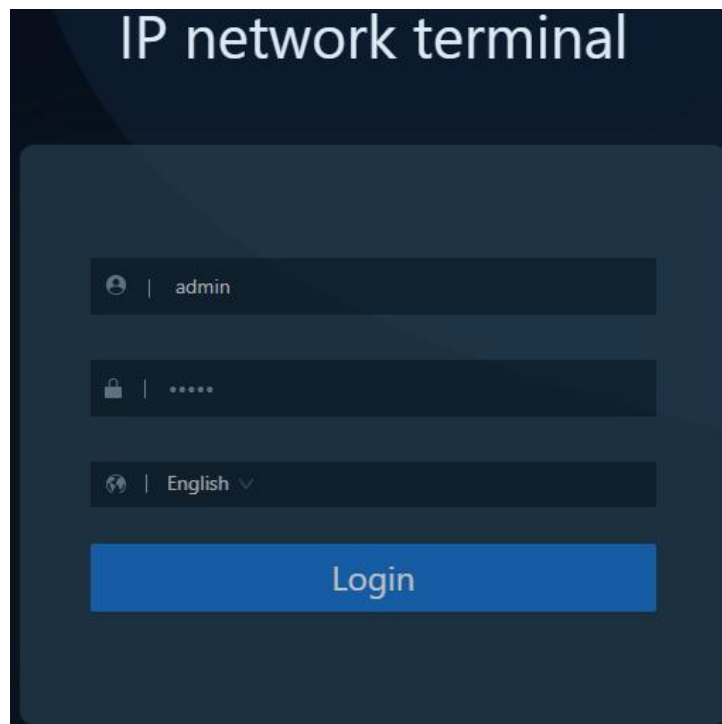
4.3 User-Defined Terminal Parameter Settings

Login web interface

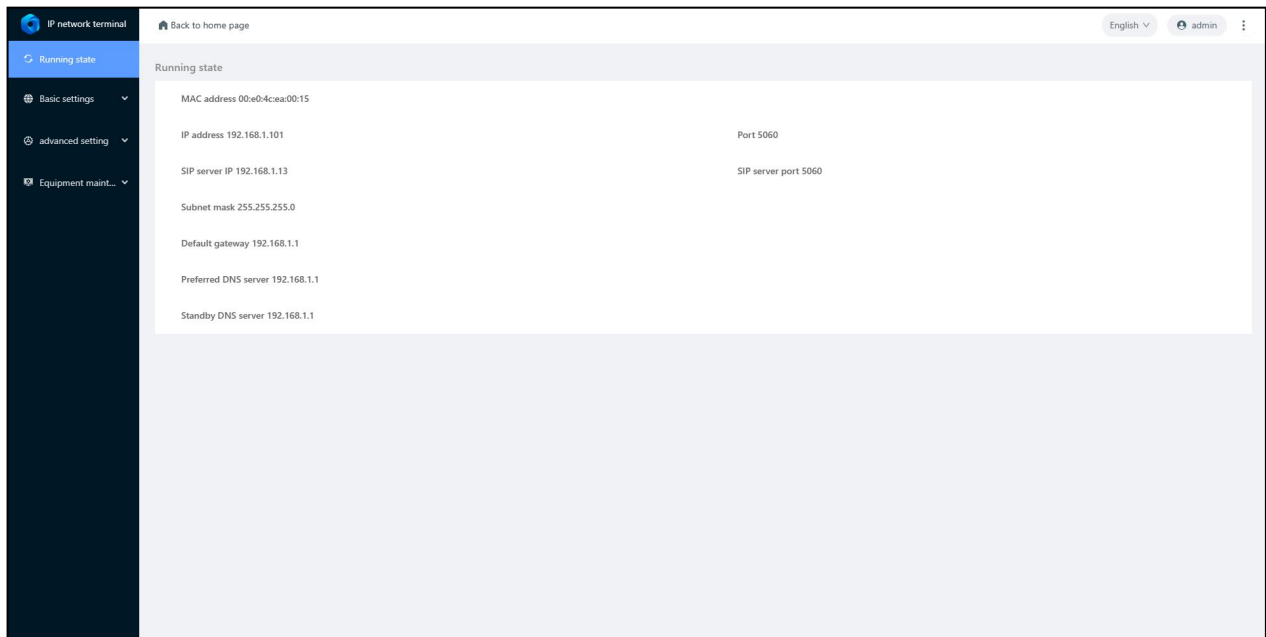
(1) Use a web browser and navigate to the IP address of the IP internal window intercom module (factory default is <http://192.168.1.101>), then press Enter.



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



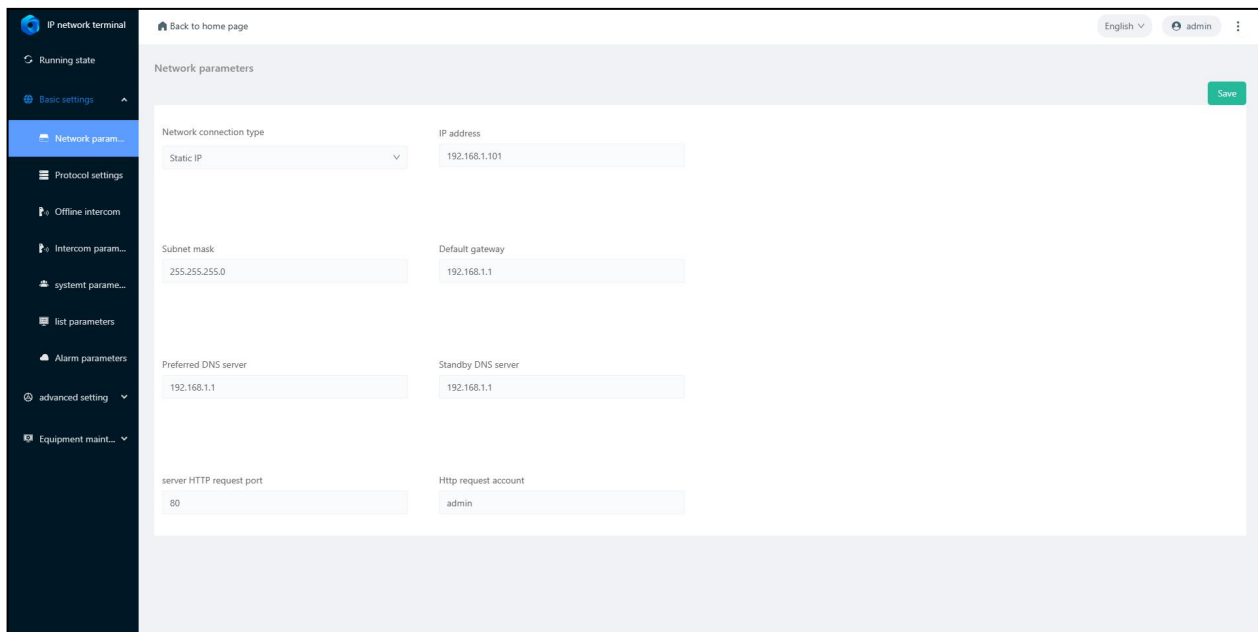
(3) After pressing Login, you will arrive in the configuration web page of the IP video intercom. **(Note: The screenshots in this document are for reference only. For details, Please see the actual interface.)**



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.



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
Device DHCP Name	It supports locally editing DHCP name and uploading to the DHCP server.
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
Server HTTP request port	Set the port for logging in http request, the default is 80.
Http request account	Set the account for logging in http request, the default is admin.

Protocol settings

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 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 sip server IP address or domain name that the IP video intercom terminal logged in, the 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.
Time zone switch	Set whether to enable the time zone setting function. The default is disable.
timezone	Select the time zone.

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.

IP network terminal

Back to home page

English

admin

Running state

Basic settings

Network param...

Protocol settings

Offline intercom

Intercom param...

systemt param...

list parameters

Alarm parameters

advanced setting

Equipment maint...

Offline intercom

Save

Left button offline call target ID

ID

1

IP

192.168.1.131

Port

5060

Right button offline call target

ID

2

IP

192.168.1.131

Port

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.

IP network terminal

Back to home page

English

admin

Running state

Basic settings

Network param...

Protocol settings

Offline intercom

Intercom param...

systemt param...

list parameters

Alarm parameters

advanced setting

Equipment maint...

Intercom parameters

Save

Intercom input volume

9

Intercom output volume

9

Ringing volume

9

Text broadcasting volume

9

Broadcasting volume

9

Receiving intercom

Disable

Auto answer time

3

Echo cancellation

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 screenshot displays the 'system parameters' configuration page in an IP network terminal interface. The left sidebar contains navigation options: Running state, Basic settings, Network param..., Protocol settings, Offline intercom, Intercom param..., systemt param..., list parameters, Alarm parameters, advanced setting, and Equipment maint... The 'systemt param...' option is currently selected. The main content area shows the following parameters:

- Video resolution:** standard_VGA
- Video bitrate:** 256K
- Screen saver (min):** 1
- Automatic gain switch:** Disable
- Video Rtp Length:** 1400
- FTP switch:** Disable
- Telnet switch:** Disable

A green 'Save' button is located in the top right corner of the configuration area.

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.
Automatic gain switch	Set whether to enable automatic gain function.
Video Rtp Length	Set video packets length.
FTP switch	Set whether to enable FTP remote file transfer function.
Telnet switch	Set whether to enable Telnet remote login terminal function.

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.
Call 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 the 'Alarm parameters' configuration page in the IP network terminal web interface. The sidebar on the left contains the following menu items: Running state, Basic settings, Network param..., Protocol settings, Offline intercom, Intercom param..., systemt param..., list parameters, Alarm parameters (highlighted), advanced setting, and Equipment maint... The main content area is titled 'Alarm parameters' and features a 'Save' button in the top right corner. The configuration options are as follows:

- Tamper alarm: Disable
- Anti-tamper alarm linked alarm output: Disable
- Alarm input-trigger intercom: Disable
- Alarm input 1-linked intercom: Left button to call
- Alarm input 2-linked intercom: Left button to call
- DTMF triggers alarm output: Disable

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.
DTMF triggers alarm output	Set whether to enable DTMF remote door unlocking function. The default is disable.

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)

The screenshot shows the 'User Management' page in the 'IP network terminal' interface. The left sidebar contains a menu with options: 'Running state', 'Basic settings', 'advanced setting', 'User Manageme...', 'Admin Password...', 'language setting', and 'Equipment maint...'. The 'User Manageme...' option is selected. The main content area has a header 'User Management' with a 'Back to home page' link and a 'Save' button. Below the header, there is a form with three input fields: 'User Name' (containing 'admin'), 'User Password', 'New Password', and 'Confirm Password'. The 'User Password' field is currently empty.

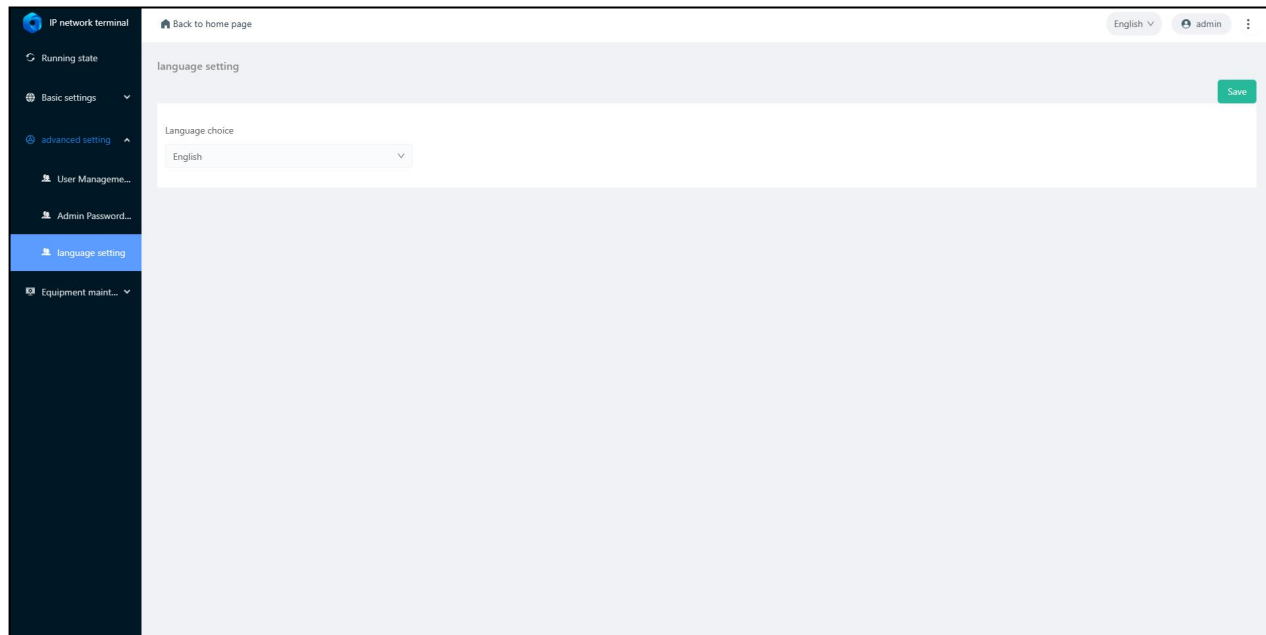
Admin password management

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

The screenshot shows the 'Admin Password Management' page in the 'IP network terminal' interface. The left sidebar contains a menu with options: 'Running state', 'Basic settings', 'advanced setting', 'User Manageme...', 'Admin Password...', 'language setting', and 'Equipment maint...'. The 'Admin Password...' option is selected. The main content area has a header 'Admin Password Management' with a 'Back to home page' link and a 'Save' button. Below the header, there is a form with a single input field labeled 'Password' containing six asterisks (*****).

Language setting

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

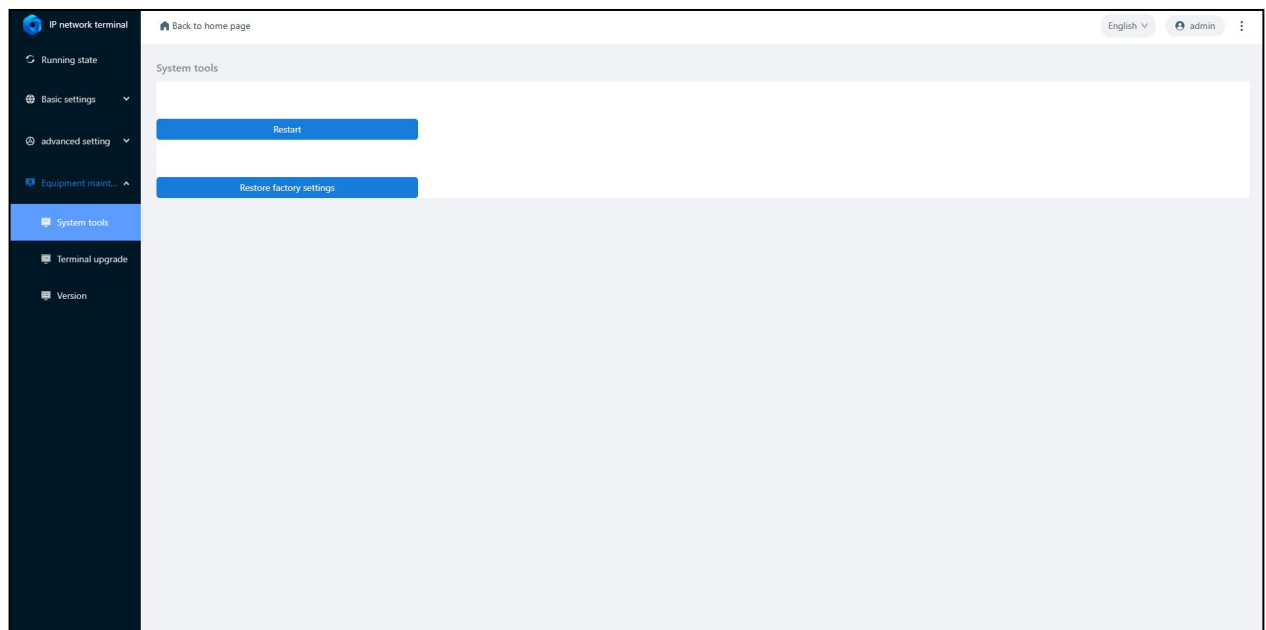


Equipment maintain

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).

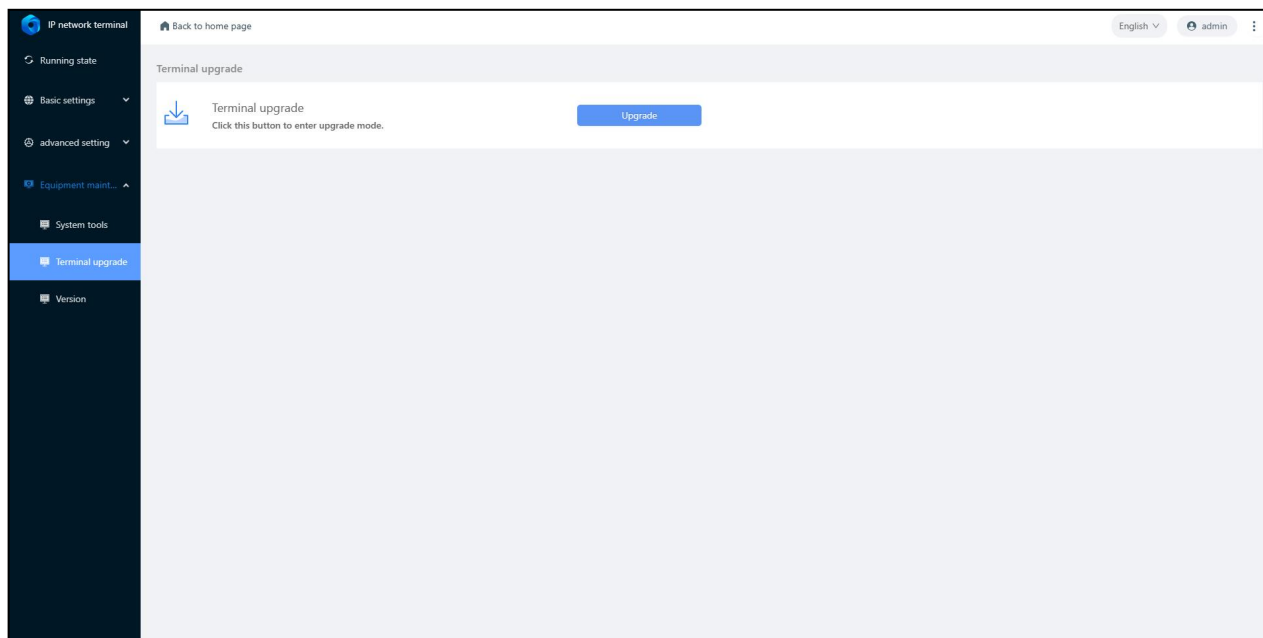


Terminal upgrade

Click “Upgrade” button to enter the firmware upgrade page.

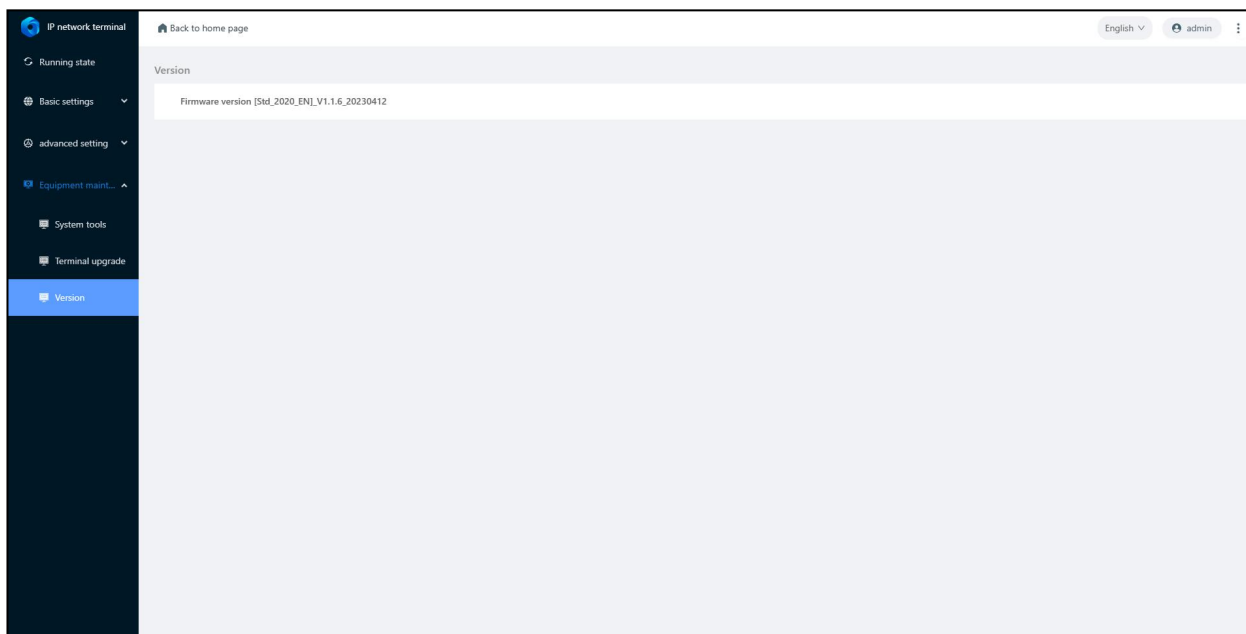
Remark :Please do not cut off power to avoid any failure of upgrade and device damage.After successfully upgrade , please restart to take effect.

Finally, click reboot and back to normal settings.



Version

View the current firmware version of the terminal.



Other functions

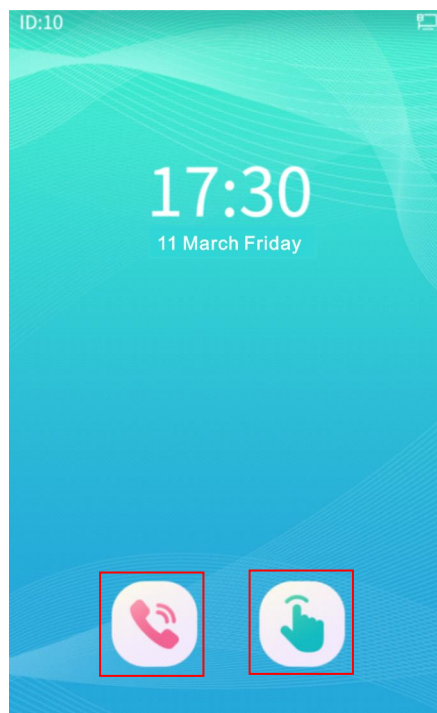
In addition to the above functions, the terminal can also cooperate with the server to realize functions such as timing ringing and real-time recording and broadcasting. For details, please refer to the service software operation guide.

4.4 Basic functions

Initiating Intercom

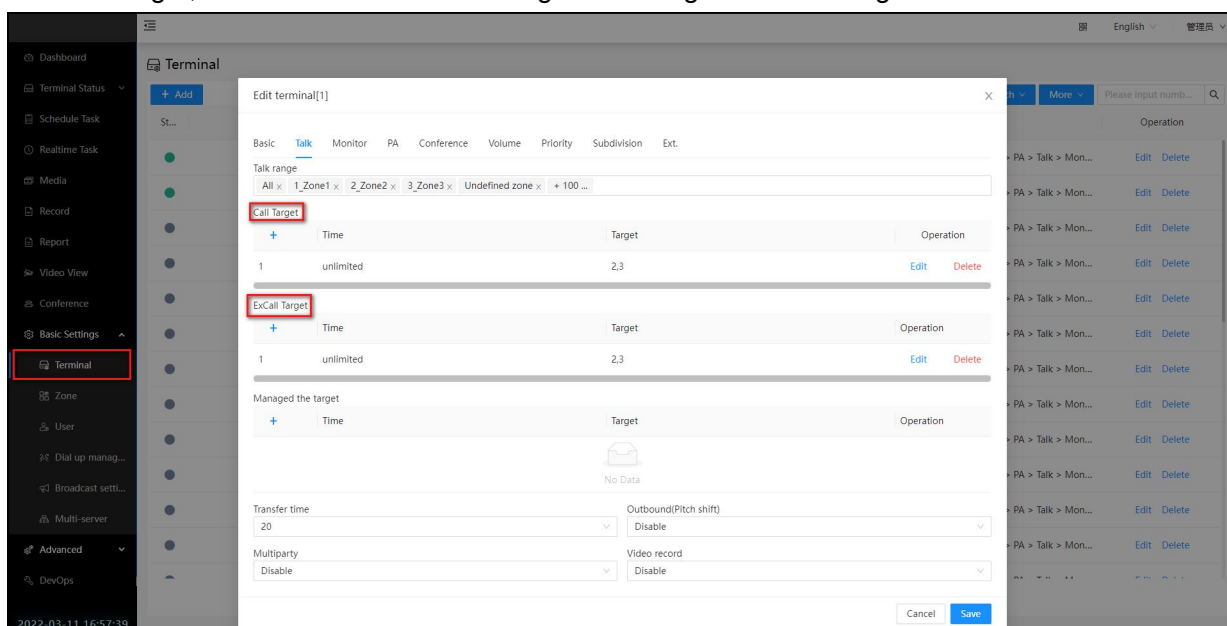
(1) The left and right call buttons on the main screen initiate intercom

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.)**



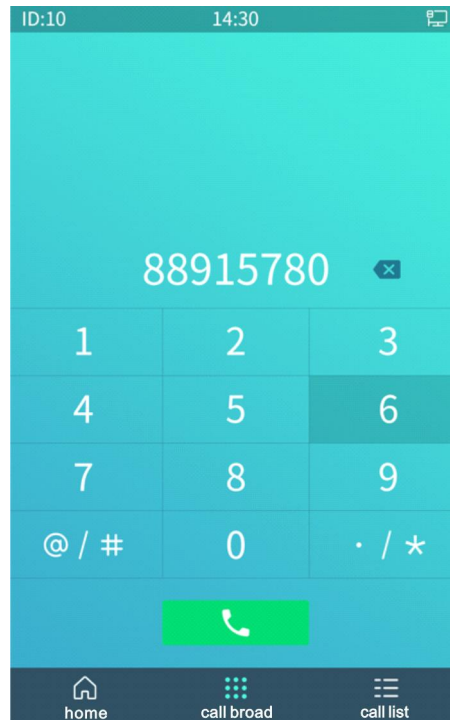
Setting call target:

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

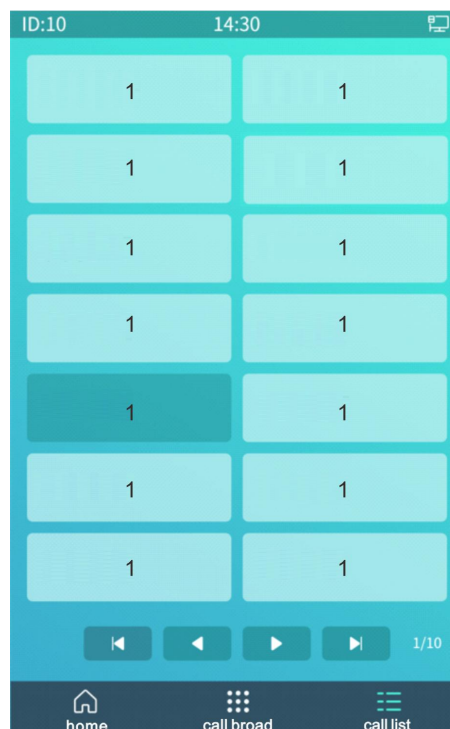
Slide left and right on the main interface, and then click “Call keyboard” to enter the Dial keyboard interface, and then enter the target terminal ID on the dial keyboard, press the dial key to initiate a call.



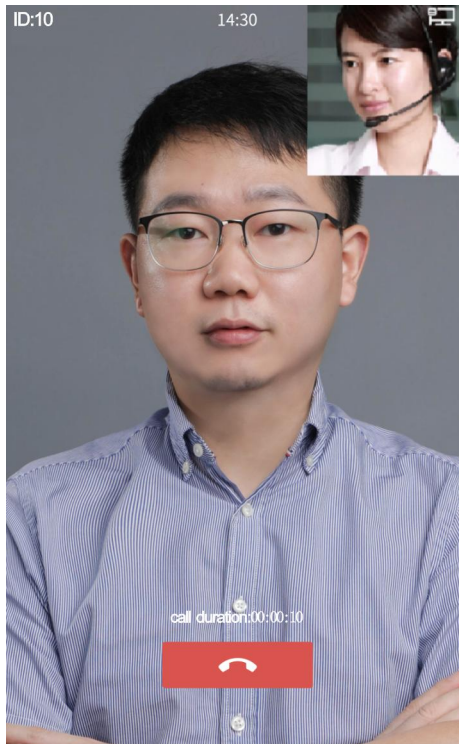
(3)Calling List

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.

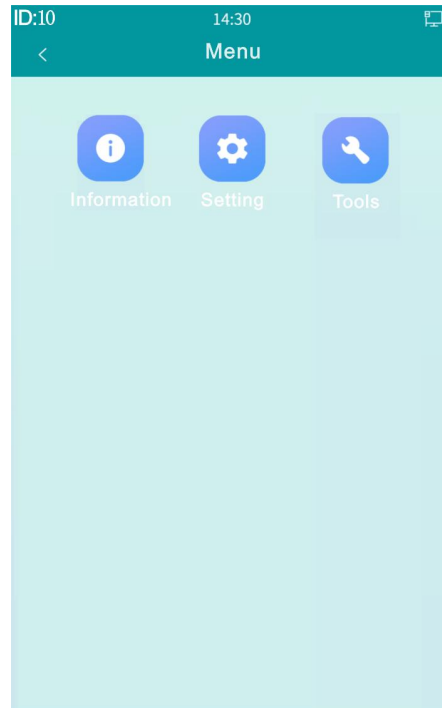
Be monitored

Supports be monitored by other terminals.

Terminal Settings

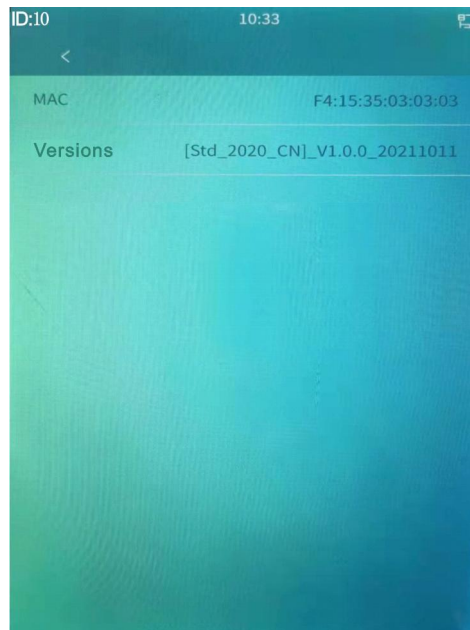
Holding down the main screen for 10 seconds to enter the administrator login page, and then enter the administrator login password. The default password is 123456.

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' application interface. At the top, there's a status bar with 'ID:10' and '14:30'. Below it is a header bar with a back arrow and the title 'Setting'. Two tabs are visible: 'Terminal' and 'Server', with 'Server' being the active tab. The main area contains three input fields: 'IP address' with the value '192.168.4.68', 'Gateway' with '192.168.4.1', and 'Subnet mask' with '255.255.255.0'. At the bottom, there is a numeric keypad with labels 'CN', 'EN', 'Num', and 'symbol' on the left, and buttons for digits 1-9, 0, and 'Done' on the right.

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

4.5 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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