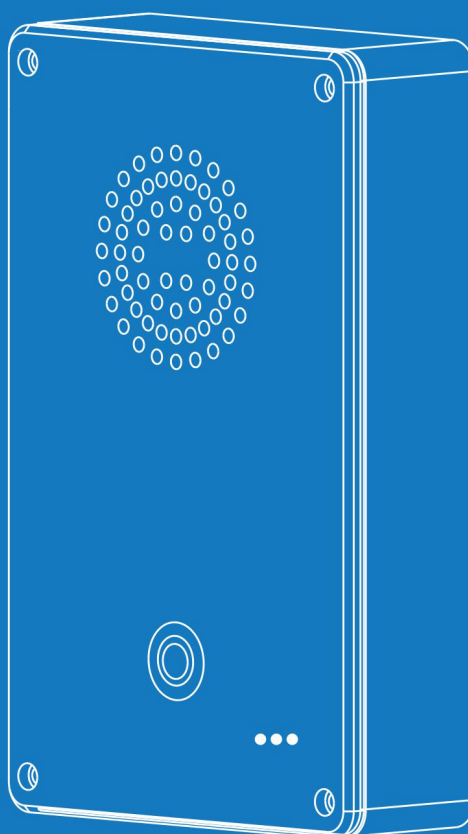


SPON

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 the user that attached is the important operation and maintenance data.

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 unspecified voltage.

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.

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

Using machine

(1) In case of the anomalies

Please turn off the power supply immediately 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 (e.g it can't network, no sound etc.)

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

Do not let foreign matters invade the machines internal.

Please don't put the metal or inflammable objects into the machine, otherwise it may cause fires or electric shock.

(3) Please do not touch it when thundering

To avoid electric shock, please do not touch the machine and the plug when lightning, etc.

(4) Please do not place containers with liquid or small metal objects on machine above.

If gets upset containers, and let the fluid inflow to the machine that will likely fires or cause shock.

(5) Do not open the machine internal or modify the machine.

The machine internal contains high voltage parts, once open the cover or modify the machine, it will likely fires or cause shock.

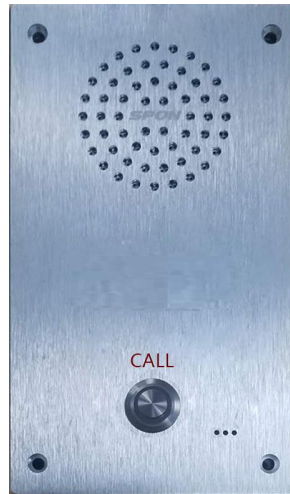
All the maintenance and other machine modification should be operated by professional personnel.

(6) Maintenance and the precautions for not using in a long time.

While maintenance, if the machine is not using for 10 days or more, please shut off power supply switch for safety. If do not comply with this provision, it will likely cause electric shock or fires.

Product Introduction

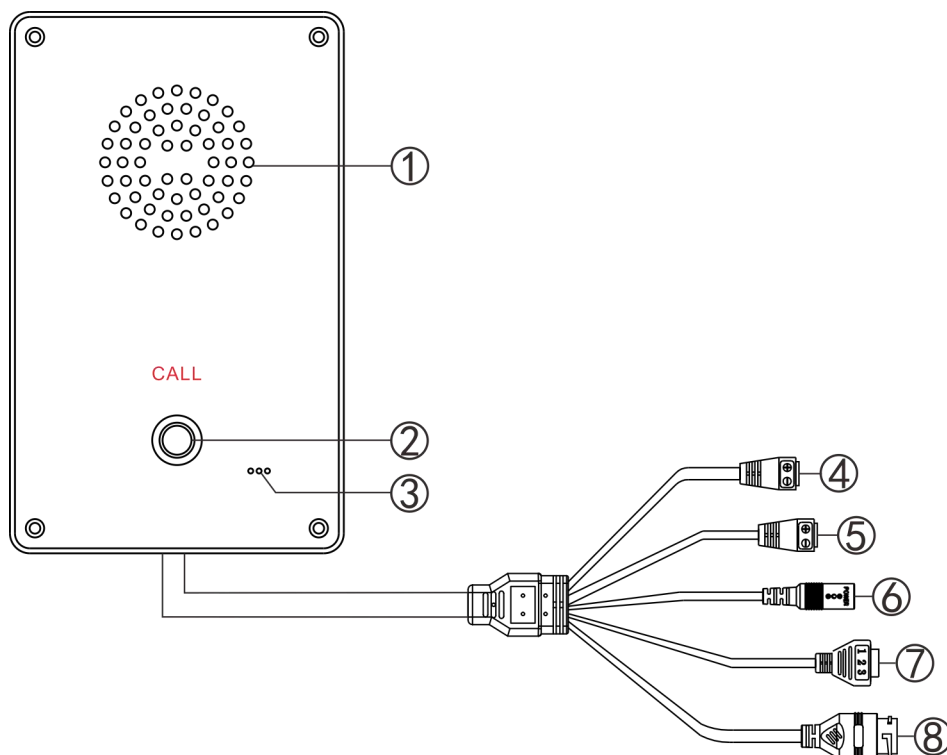
IP audio intercom terminal which is embedded with IP Audio digital audio technology of independent intellectual property right, equipped with power input interface, alarm input and output, recording output and other ports, which is specially used for monitoring, hands-free calls and broadcast receiving.



Features

- Full metal shell, wall mounted installation, safe and sturdy.
- With single calling button to realize full-duplex intercom.
- Built-in speaker and microphone mic, hands-free calling and receiving broadcast.
- Support offline intercom (initiate and receive) without server.
- The terminal has one short circuit output to control the alarm light.
- With 1 short circuit input to connect external button.
- Accessible to the system if the Ethernet is available, cross-network segments and cross-routes.

Interface description



① Loud speaker: amplify the remote voice.

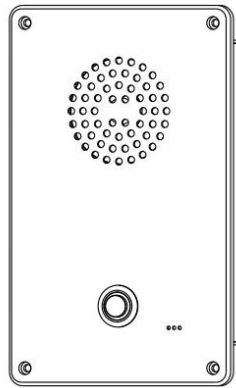
- ② Calling button: press the button to call the terminal designated by the server.
- ③ Pick-up microphone: collect the local audio.
- ④ Recording output interface (green)
- ⑤ Alarm input interface (black)
- ⑥ Power supply input interface
- ⑦ Alarm output interface: port 1 is alarm output public port; Port 2 is alarm output normally close port; Port 3 is alarm output normally open port.
- ⑧ Network interface: insert the cable, connect the switcher in order to the the terminal to log on the server normally. Support POE power supply.

Introduction

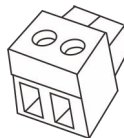
Packing list

The IP audio intercom terminal is including the following fittings, please check all the fittings before installation. Please contact your supplier if there is any missing.

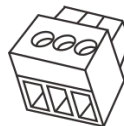
- (1) IP audio intercom terminal 1PCS



- (2) Wiring terminal (3.81-2P) 2PCS



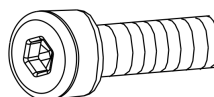
- (3) Wiring terminal (3.81-3P) 1PCS



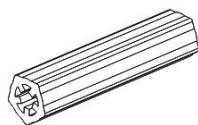
- (4) Allen spanner 1PCS (2.5MM)



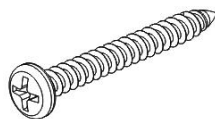
- (5) Inner hexagon screw 4PCS (M3*12)



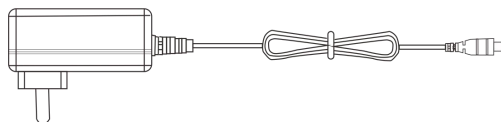
- (6) Plastic expansion sleeve (7*28) 4pcs



(7) Half-round head Phillips screw (ST4*35) 4pcs



(8) Power adapter 1PCS (12V/1.5A)



(9) Waterproof tail circuit connector 1PCS



(10) Operation guide card 1PCS



(11) Installation manual 1PCS

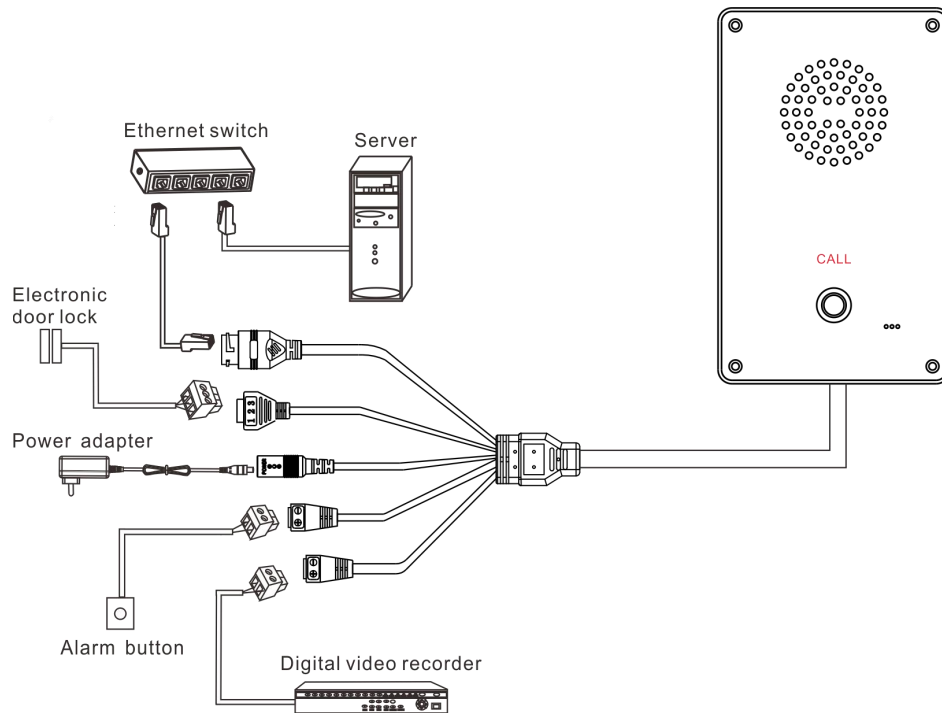


(12) Certification 1 PCS



Wiring

- (1) Connect one end of the power adapter to the power interface of the IP audio intercom terminal, and connect another end to the power socket.
- (2) Connect one end of the Ethernet cable to the network cable interface of the IP audio intercom terminal, and connect another to the switch.
- (3) Connect other devices to corresponding interfaces.

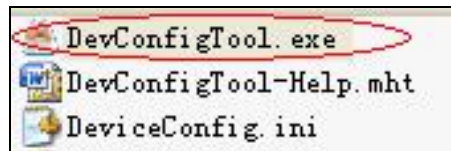


Basic Network Settings

Power the terminal after the terminal is connected according to the installation manual, there are two ways to modify network parameters of the terminal according to the site use environment.

Terminal device scanning tool

(1) Under the [optical disc:\tool software\]menu to find and run "IP audio configuration tool",input the defaulted password"123456"



(2) From the right menu choose【Mandatory config】, then fill the correct parameters in the【terminal parameters】, click "send parameters" button to complete the IP parameters Settings.

Scan config **Mandatory config**

Note: All terminals support, used with caution.
Warning:
1. Make use of interconnection net cable;
2. When using net switch, only connect one terminal;

Terminal parameter

Terminal ID: 1

Server IP: 192 . 168 . 0 . 192

Terminal IP: 192 . 168 . 0 . 101

Gateway IP: 192 . 168 . 0 . 1

Subnet Mask: 255 . 255 . 255 . 0

Terminal Port: 2048 (Default 2048) (special modify)

Server Port: 2048 (Default 2048) (special modify)

Send parameters

☒ Safety checks (Check more than one terminal)

Remarks:

- 1、When using the windows 7 system, please use the administrator mode, and then shut down the firewall and the related software;
- 2、Scanning tools can only be carried out on a terminal network parameter configuration, when using this way configure terminal network parameters, please ensure that a computer and a target terminal connection only.
- 3,IP audio terminal configuration tool needed, please contact our company's after-sales customer service

WEB page mode

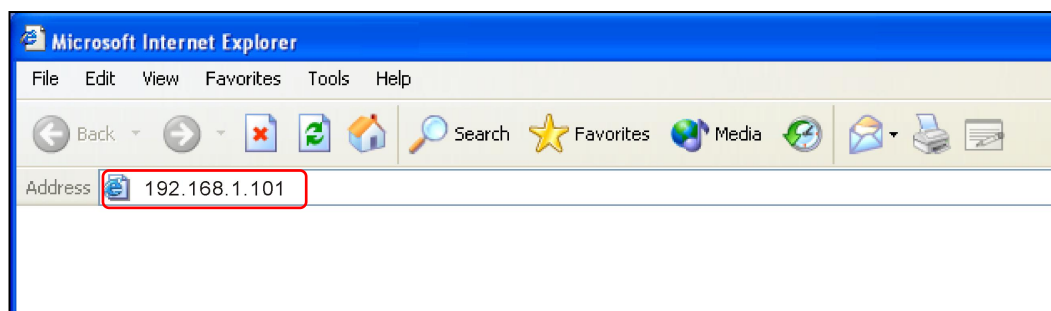
Entering the Web page of the IP audio intercom terminal, according to the situation to modify each parameters of network parameters, after setting well, clicking "save".

Specific operation steps please refer to network settings of user-define terminal parameters.

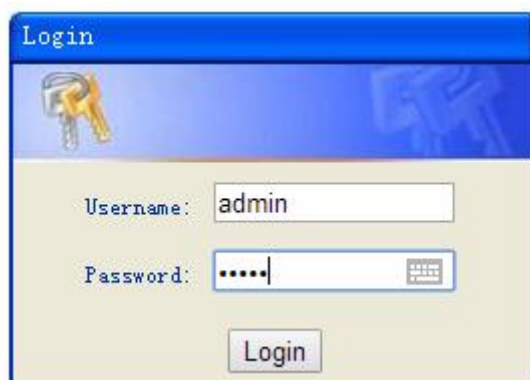
User Define Terminal Parameters

Login web page

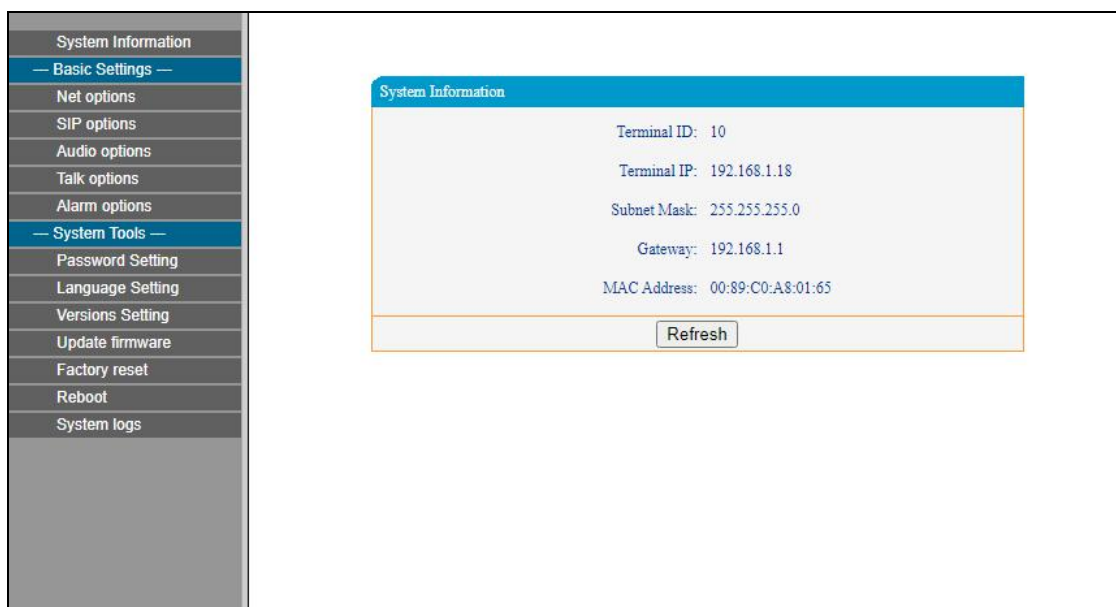
(1) Please enter the IP audio intercom terminal IP address to the browser address column(the factory default IP address is 192.168.1.101, when you press the button, the terminal will automatically broadcast the IP address without network) ,then enter.



(2) Enter the username and password in the web page login window (the default is admin).

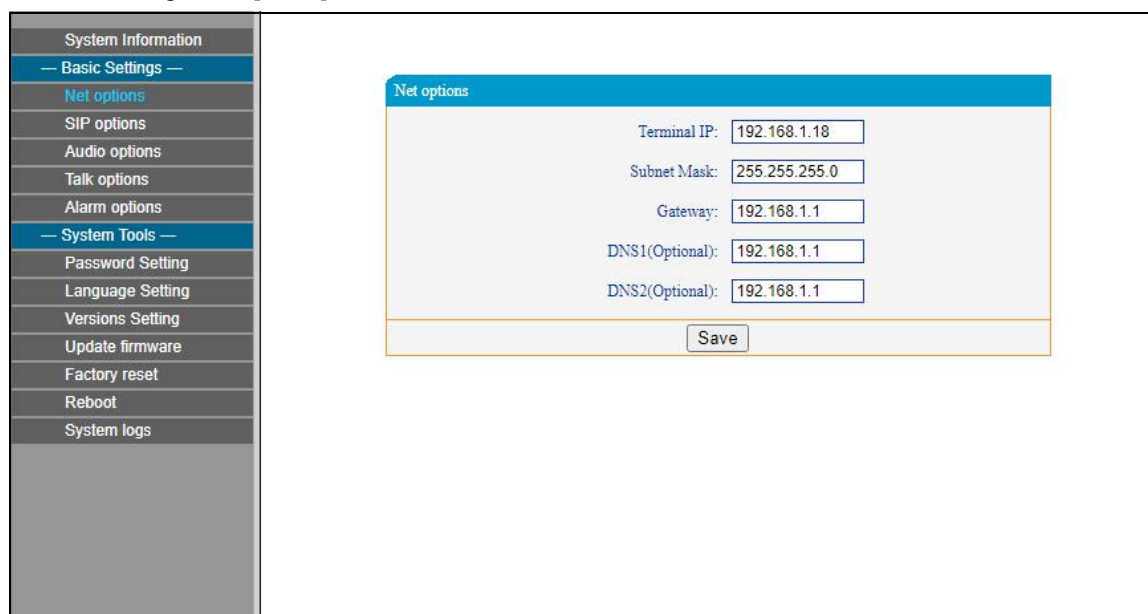


(3) Click OK to enter the web page of the IP video intercom terminal.



Net options

To set the network parameters, please modify each parameter in the network parameters according to the site environment. After setting, click [Save], and the device will be restarted



Parameters as following:

Terminal IP	IP address of the terminal, the factory default is 192.168.1.101
Subnet mask	The mask of the subnet where the terminal is located.
Default gateway	The gateway of the network where the terminal is located.
DNS1	IP of the preferred domain name resolver on the network where the terminal is located.
DNS2	IP of the alternate domain name resolver on the network where the terminal is located.

SIP options (SIP Protocol)

Set server platform parameters for terminal login. When the communication protocol between the terminal and the server is SIP protocol, directly set the server parameters in "SIP parameters". After setting, click [Save] to restart the device.

Note: If the server logged in by the terminal is NAS server, set the protocol as NAS version in "System Tools" - "Protocol Settings" on the Web page, and then set the service parameters.

Parameters as following:

SIP server	SIP server address where terminal located, please input correct SIP server IP address or domain name to avoid call failure. Please do not modify the port (the default is 5060) without any special situation.
Account	SIP account and password of terminal, default value is b1, can't repeat with other terminals.
Password	The password for the terminal to log in to the SIP server, the default is 1234
Net port	Set network port according to the situation
Audio port	Set audio port according to the situation

Server options (NAS protocol)

The default communication protocol between the terminal and the server is SIP protocol. If the server logged in by the terminal is NAS server, switch the protocol to NAS version in "System Tools" - "Protocol Settings" on the Web page. After switching and saving, restart the device and empty the browser cache, and the web version will become NAS protocol version. At this point, "service parameters" can be set. After setting, click [Save] to restart the device.

Parameters as following:

Terminal ID	The only identify device No., it can't repeat with other host. The defaults is 1.
Local Port	The port No. of the terminal Note: please do not modify the port (the default is 2048) without any special situation.
Preferred server	Server address of terminal login, the defaults is 192.168.1.13
Secondary server	When the preferred server fails to connect, you can log in to the alternate server. After the preferred server is available, the terminal re-logs in to the preferred server. The default IP address of the standby server is 192.168.1.14

Audio options

Set the audio parameters of the terminal, click [Save] after modification, and the reboot will take effect.

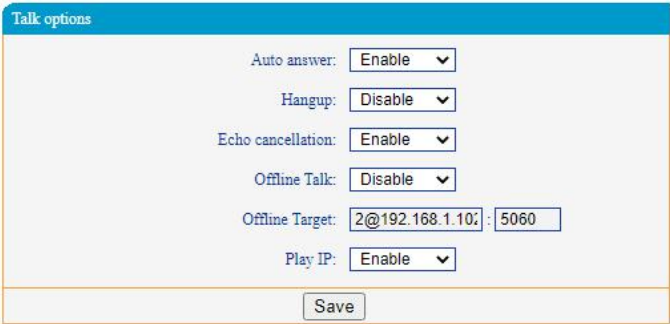
Parameters meanings as following:

Recorder	Set the terminal "line (or recording) output port" function. Set to "Enable", this interface is recording output, and set to "Disable" this interface is line output.
----------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------

Talking Output Select	<p>The terminal during intercom default audio source output:Speaker.</p> <p>Speaker:The voice output from speaker during intercom.</p> <p>Line Output:The voice output from line when intercom, no voice output from terminal speaker.</p> <p>Note: If "Enable" is selected for the recording interface, the intercom output only supports speaker output, not line output.</p>
Intercom Input Volume	The total input volume within the conversation(0~15).
Intercom Output Volume	The total output volume within the conversation(0~15).
Ring Volume	The ring volume when receiving the call.
Broadcast Output Select	<p>The terminal during broadcast default audio source output:Speaker.</p> <p>Speaker: The voice output from speaker during broadcast.</p> <p>Line Output:The voice output from line when broadcast, no voice output from terminal speaker.</p> <p>Note: If "Enable" is selected for the recording interface, the intercom output only supports speaker output, not line output.</p>
Broadcast Volume	The total volume of the offline broadcast output of the terminal (0~15). When online, the host receives the server broadcast volume by default
Monitor volume	The total volume of the terminal input when being monitored (0~15)
Dialing voice close	<p>Enable: The terminal has a prompt tone (such as a call prompt tone, busy prompt tone,etc.) when the intercom is initiated;</p> <p>Disabled: There is no prompt tone when the terminal initiates an intercom</p>
audio fec&audio jitter	<p>When it is enable, can improve the audio quality in a poor network environment (such as network packet loss).</p> <p>Note: Audio adaptive and audio anti-shake are only valid under SIP protocol. Must also simultaneously "enable" automatic error correction and packet loss retransmission in "Network Adaptive" in "Basic Settings"- "Integrated Settings" of XC service software.</p>
Keyword Recognition	Reserved.

Talk options

Set the terminal intercom parameters, click [Save] after modification, and restart the device will take effect

System Information	
— Basic Settings —	
Net options	
SIP options	
Audio options	
Talk options	
Alarm options	
— System Tools —	
Password Setting	
Language Setting	
Versions Setting	
Update firmware	
Factory reset	
Reboot	
System logs	

Parameters as following:

Auto answer	Set up the mode of terminal receiving talking, start for automatic answering; If forbidden, please pressing the button to turn on the talking
Hangup	Set terminal hang up ways. Disabled, intercom can't be hung up; Enabled, terminal can hang up
Echo cancellation	Enabled by default. When disabled, there will be an echo during the intercom process
Offline Talk	Enabled, the offline terminal can call the target set in the offline parameters Disabled, offline talk disable
Offline target	The target IP address of the target terminal corresponding to the left button of the terminal once enabled offline intercom. The setting format is the terminal ID@IP address+port number (e.g. 2@192.168.1.101:5060)
Play IP	Once enabled, when the terminal is not connected with network cable, press the left button or the right button to broadcast the device ID, IP address, subnet mask and other information.

Alarm options

Set the terminal alarm parameters, click [Save] after modification, and restart the device will take effect.

Parameters as following:

Noise alarm	When the hubbub alarm is enabled, the terminal will automatically alarm if the environment volume reaches a certain level and lasting a period time; when it's forbidden, the terminal can not alarm;
Dismantle alarm	When the tamper alarm is enabled, the terminal will automatically alarm if the device is disassembled during normal operation. If it is disabled, this function is not available.
Panel speaker testing	When it is enable, the terminal will emit a beep when it is turned on. This function can detect the working status of the MIC and speaker.
Noise alarm Trigger Volume	The environmental noise reach the alarm level
Noise alarm Trigger Time(s)	Environment lasting hubbub time, the unit is second.

Password Settings

You can revise the web page login-in account and password from the WEB management parameters.click [Save] after modification, and restart the device will take effect.

Language Settings

You can switch Web language between Chinese and English, save the revise and restart WEB to come into effective.

The screenshot shows the 'Language Setting' page. On the left is a sidebar menu with categories: 'System Information', 'Basic Settings' (expanded), 'Net options', 'SIP options', 'Audio options', 'Talk options', 'Alarm options', 'System Tools' (expanded), 'Password Setting', 'Language Setting' (highlighted), 'Versions Setting', 'Update firmware', 'Factory reset', 'Reboot', and 'System logs'. The main content area has a blue header 'Language Setting'. Below it, there is a 'Language:' label followed by a dropdown menu currently set to 'English'. At the bottom right of the form is a 'Save' button.

Versions Setting

Set the protocol for the normal communication between terminal and server, support intercom (NAS) and SIP protocol, the default is SIP.

Please select the corresponding protocol according to the server type that the terminal logs in, and then make relevant settings. After setting the protocol, save it and restart the device to take effect. At the same time, you need to clear the browser cache.

Note: Web pages of different protocols are slightly different. For details, please refer to the actual interface.

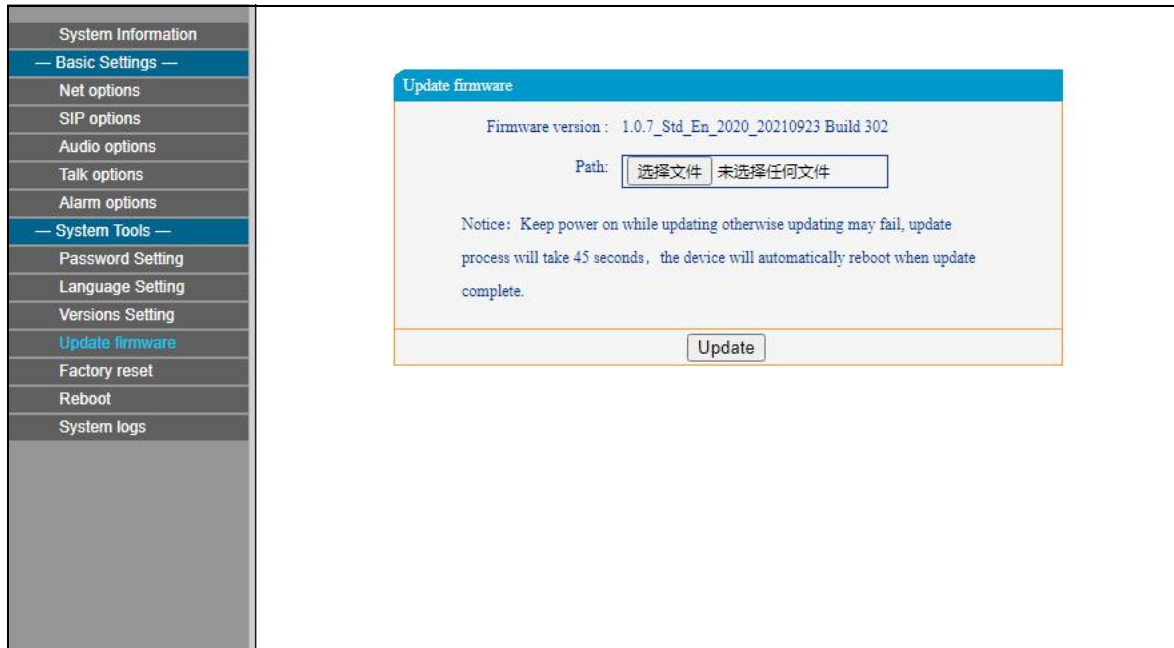
The screenshot shows the 'Versions Setting' page. The sidebar menu is identical to the previous screenshot, with 'Versions Setting' highlighted under the 'System Tools' category. The main content area has a blue header 'Versions Setting'. Below it, there are two buttons: 'NAS Versions setting' and 'SIP Versions setting'.

Firmware Upgrade

In the firmware upgrade Web page, select the firmware upgrade file provided by the manufacturer, and click the "upgrade" button to start the upgrade.

Remarks:

1. Do not cut off the power during the upgrade process, otherwise, the upgrade may fail and the equipment may malfunction. The upgrade process takes about 45s, after upgrade completed the device will automatically restart.
2. Do not upgrade the firmware unless you have special needs.

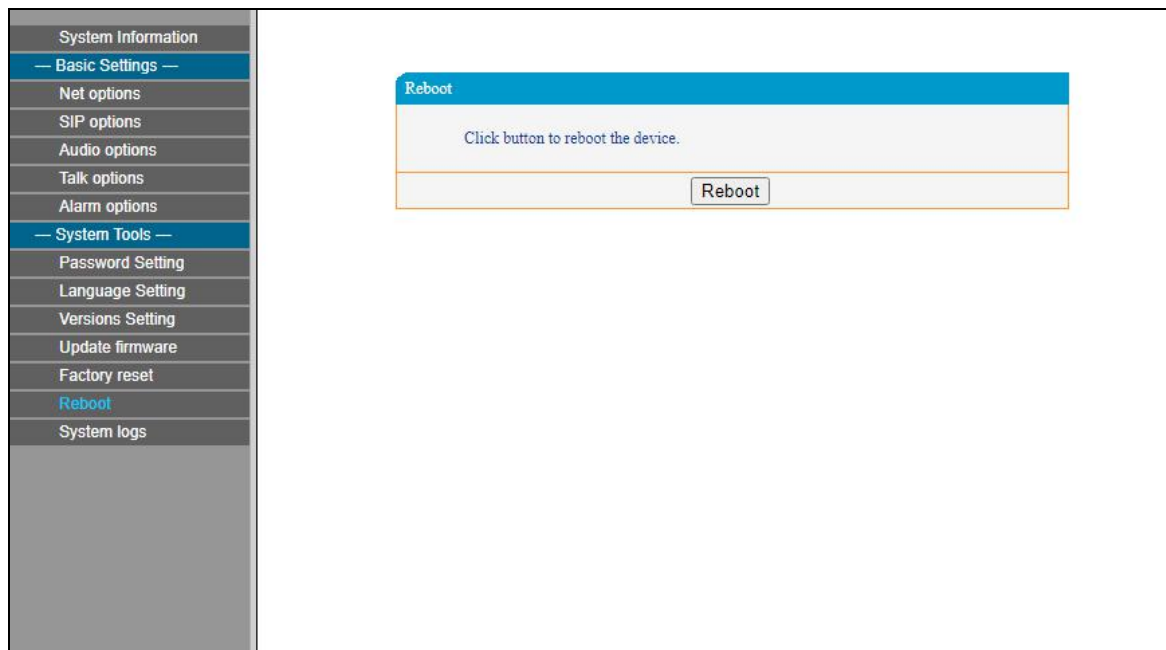
**Factory reset**

Factory reset: all parameters were restored to factory settings.

Last correct configuration: restore to the last parameter that login to the server.

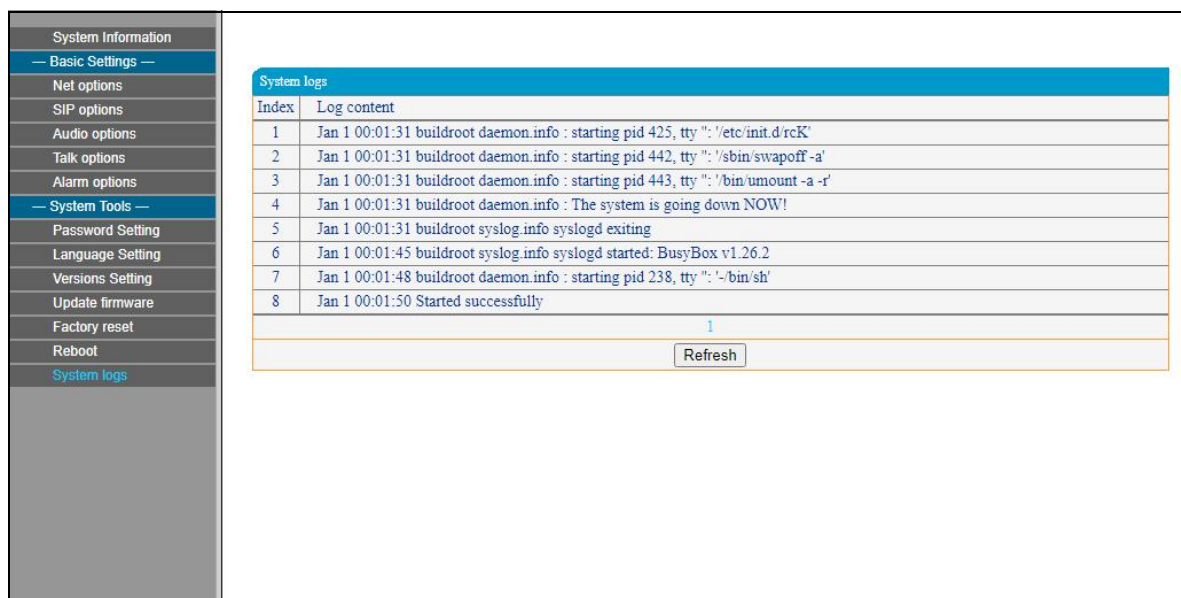
**Reboot**

Click the [Reboot Device] button and the device will restart.



System logs

The system log can be viewed here



Other Functions

In addition to above function, IP audio intercom terminal could coordinate with the server to accomplish the timing ringing, real-time broadcasting and the timing broadcasting all these functions, for the details please refer to the server software operation instruction.

Basic Functions

Initiate Intercom

Press **【CALL】** button, can directly call the terminal named by server;

After completing the above operation, if the called terminal is free, the terminal will play the waiting tone and wait for the other party to answer, and the called terminal will play the ring tone. If the called terminal is busy or refuses to answer, the terminal will play a busy tone.

Note: the default call TD number is 001 intercom terminal. You can call several calling target, when the called target is busy, it can automatically call next target.

Receive Intercom

Manual answer or automatic answer can be set on the web page.

Receive Broadcast

Automatically answer without pressing any button.

Fault Exclude

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. When the terminal is power on, the network port green indicator light will be normal on, and orange indicator light will rapidly short flicker, it means the cable hard-link is normal. If the network port green indicator light is not light up, there is network hard-link problem, please check the cable and switch which is connected the terminal, check if there is any damage and poor contact abnormal working.
3. Check the terminal IP setting. Checking the terminal ID NO, server IP, local IP and gateway IP these parameters is correct or not.

Web display abnormal?

Emptying the cache or change the browser.

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.

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