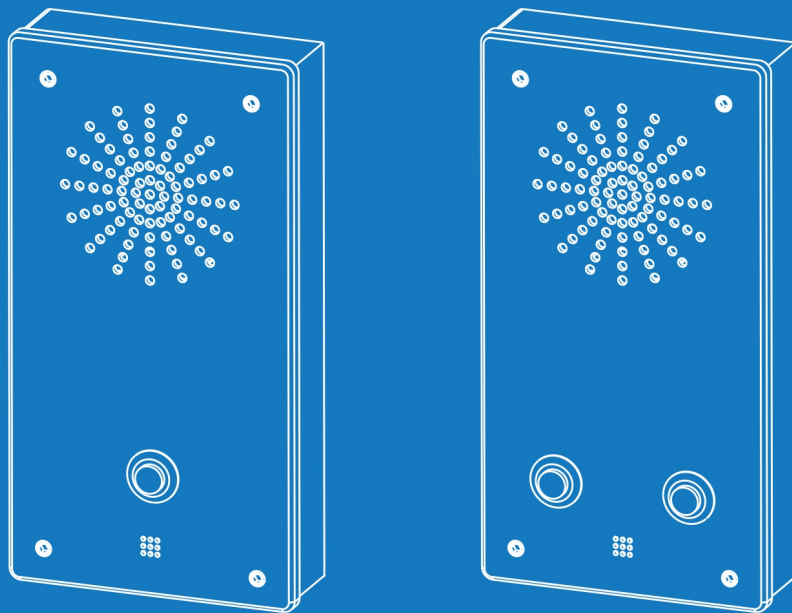


SPON

IP NETWORK INTERCOM TERMINAL User Manual



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Summarize

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

Setting 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.

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) 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.

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.

- (3) Please do not touch it when thunder

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 modification of the machine.

The machine internal contains high voltage parts, once the open cover, or modification of the machine, it will likely fires or cause shock. All about maintenance and other such matters within the machine to transform should be operated by professional personnel.

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

When Maintenance, if the machine not in use in 10 days or more than 10 days, in order to ensure the safe, please shut off power supply switch, and will power plug. If failure to comply with this provision, it will likely cause electric shock or fires.

Products Introduction

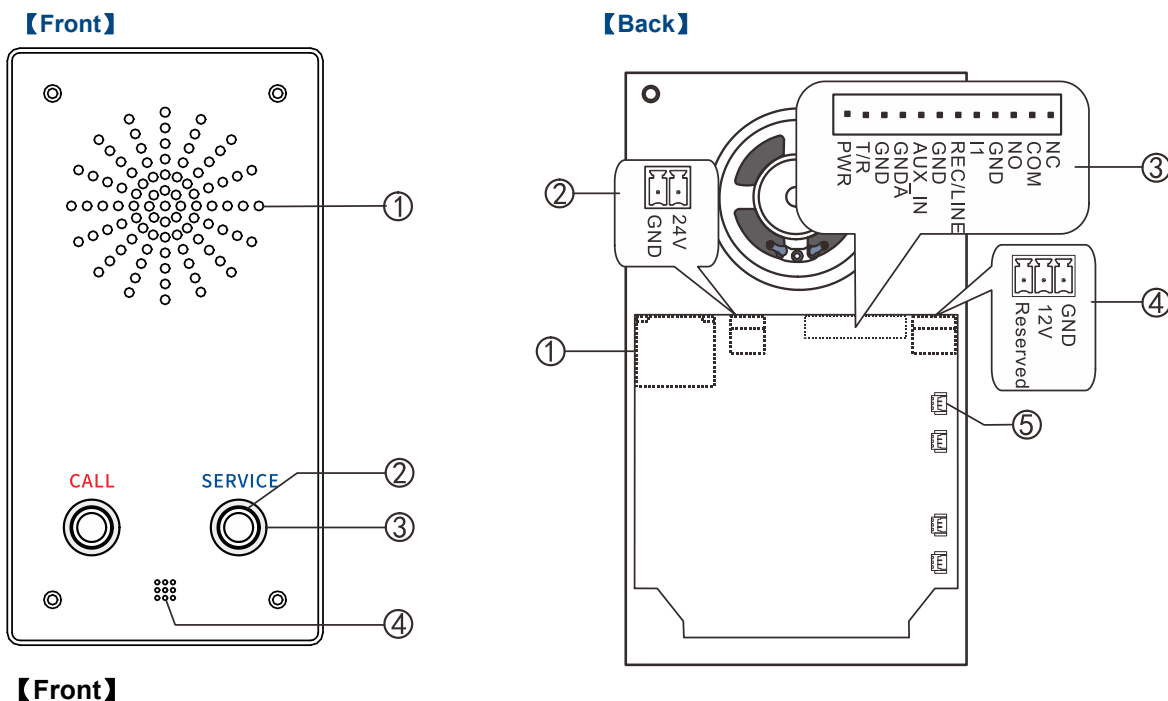
IP network intercom terminal which is embedded with the IP Audio digital network audio technology of SPON independent intellectual property rights, the terminal is equipped with power input interface, alarm input, alarm output etc ports. With intercom and broadcast etc functions.



Features

- With brushed aluminum, violence-resistible, all-metal panel and embedded installation
- With a built-in speak and microphone, available for hands-free call and receiving broadcast;
- Supportive offline intercom (initiation & receiving) without server, can configured offline call target in WEB page.
- Three-color door light can be connected externally, and the three-color door light can be controlled according to the alarm content. The alarm content can be quickly identified through the color of the three-color door light
- Alarm control module can be contacted externally to expend alarm input & output interface.
- With 1 controlled power output (DC12V), which can directly drive warning lights
- Support POE power supply
- Equipped with standard RJ45 interface, accessible to the system wherever Ethernet is available, supporting cross-segment and cross-router.

Hardware Interface Introduction



- ①loudspeaker
- ②Status indicator ring: When the device is broadcasting or intercom, the indicator flashes quickly; when online is idle, the indicator light is always on; when offline, the indicator flashes slowly.
- ③Call button (optional single button or two button): Press the left and right buttons to call the target terminal specified by the service software.
- ④Mic

【 Back 】

- ①Network port: insert the network cable and connect to the server(support POE power supply).
- ②Power interface: DC24V/DC12V power input.
- ③Signal interface:

■ NC	} Alarm output (NC: Normally closed, COM: COM, NO:Normally open)
■ COM	
■ NO	
■ GND	} Alarm input 1 (GND: Ground, I1: Alarm input1)
■ I1	
■ REC/LINE	} Record out/Line out interface (REC/LINE: Signal, GND:ground)
■ GND	
■ AUX_IN	} Line in interface (AUX_IN: Signal, GNDA: Analog ground)
■ GNDA	
■ GND	} Three-color door light interface (GND: Ground, T/R:Signal, PWR:Power)
■ T/R	
■ PWR	

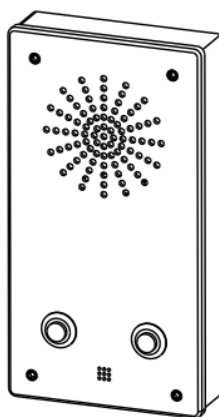
- ④Controlled power output interface: DC12V power output.
- ⑤Alarm input interface: Reserved.

Introduction

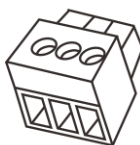
Packing List

IP network intercom terminal includes following fittings, please examine the fittings before installation, if any missing, please contact the distributor.

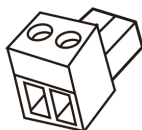
- (1) IP Network intercom terminal 1pcs (optional single button or two button)



- (2) Wiring Terminal (3.5-3P) 1pcs



- (3) Wiring Terminal (3.5-2P) 1pcs



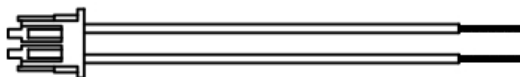
(4) Allen screw (M3*12) 4pcs



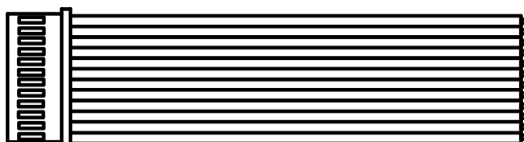
(5) Allen screwdriver 1pcs



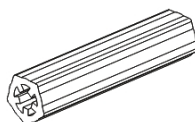
(6) Red-Black line (X2-80) 1pcs



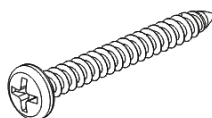
(7) Red-White line (X12-100) 1pcs



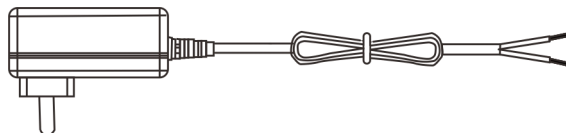
(8) Plastic swelling cover 4pcs



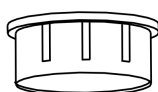
(9) Tapping screw (ST4*25) 4pcs



(10) Power adaptor (DC24V/1A) 1pcs



(11) Plug (HP-16) 1pcs



(12) Plug (SMR7/8BK1) 1pcs



(13) Installation instructions 1pcs



(14) Certification 1pcs



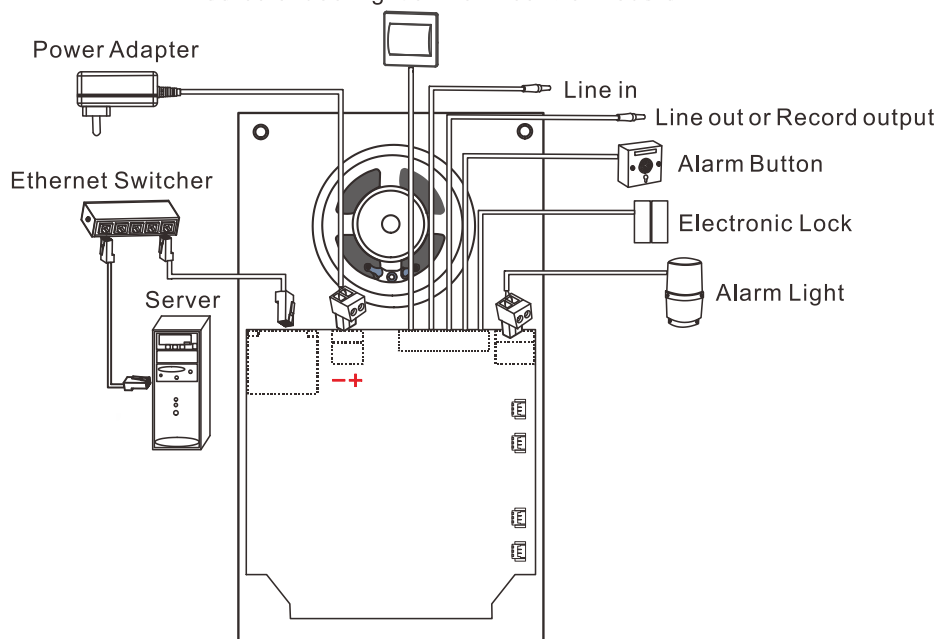
Wiring

(1) Use one end of power adapter connect with the IP network intercom terminal power port and the other end connect with power socket.

(2) Use one end of Ethernet cables connect with the IP network intercom terminal and the other end connect with the switcher.

(3) Contact the alarm lamp, three-color door light and alarm button to corresponding interface.

Three-color door light or Alarm control module



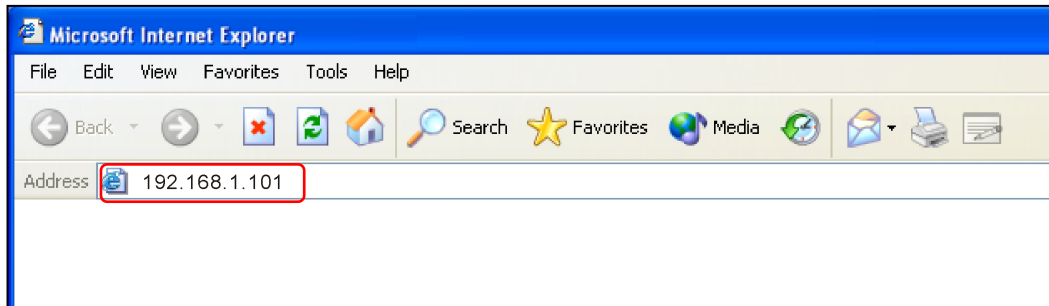
Basic Network Settings

Contact the terminal and turn on the power, enter the web interface of the IP network intercom terminal, modify the terminal network parameter according to the live environment and "save". For specific operation steps, refer to the network parameter settings in the custom terminal parameters.

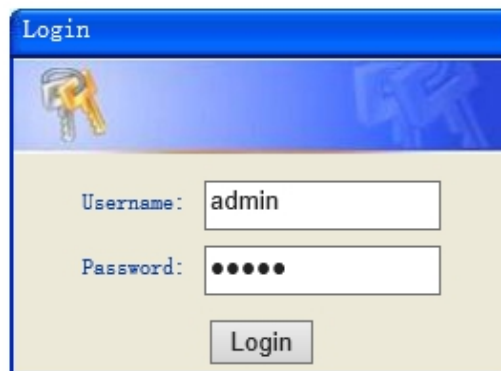
Custom Terminal Parameters

Login Web Interface

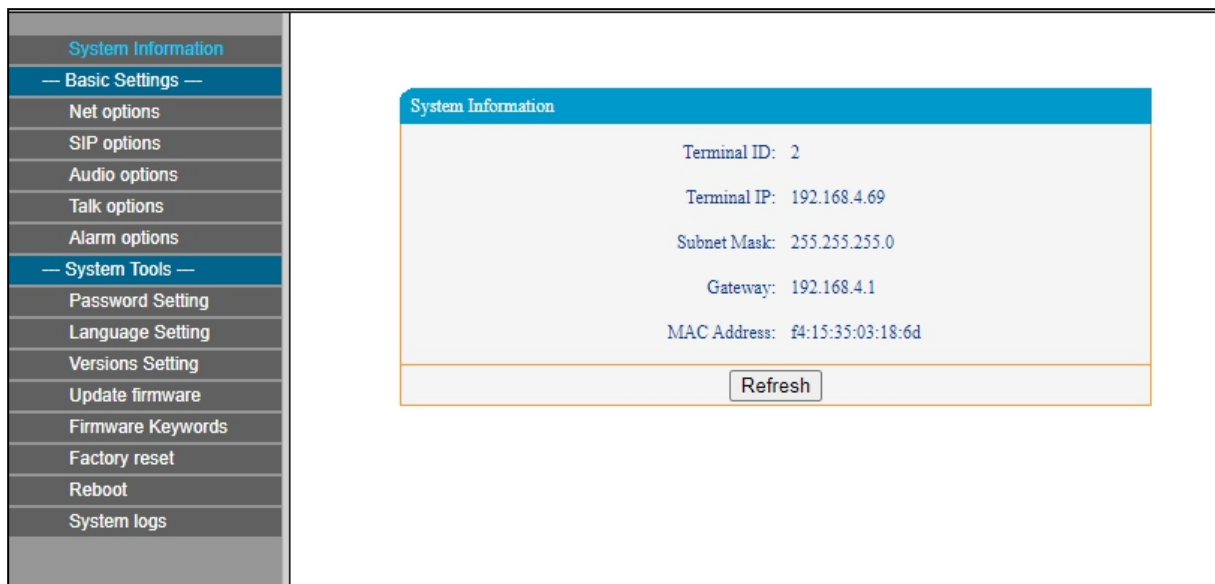
(1) Please input the IP network intercom terminal IP address to the browser address column (the factory default IP address is 192.168.1.101, it will automatically play the IP address when press the terminal key without the cable inserted), then enter.



(2) Enter the user name and password in the web page (the default user name and password is admin)



(3) Click OK to enter terminal web page



Network Options

Set the network parameters, please modify the parameters according to the live environment, save setting, and restart the device to take effect.

System Information	<div>Net options</div> <div> Terminal IP: <input type="text" value="192.168.4.69"/> Subnet Mask: <input type="text" value="255.255.255.0"/> Gateway: <input type="text" value="192.168.4.1"/> DNS1(Optional): <input type="text" value="192.168.1.1"/> DNS2(Optional): <input type="text" value="192.168.1.1"/> <input type="button" value="Save"/> </div>
— Basic Settings —	
Net options	
SIP options	
Audio options	
Talk options	
Alarm options	
— System Tools —	
Password Setting	
Language Setting	
Versions Setting	
Update firmware	
Firmware Keywords	
Factory reset	
Reboot	
System logs	

Parameters meanings as following:

Terminal IP	Terminal IP address. The factory default IP address is 192.168.1.101 。
Subnet mask	The subnet mask of the terminal
Gateway	The network gateway of the terminal
Preferred DNS server	The preferred domain name interpreter IP of terminal
Alternate DNS server	The standby domain name interpreter IP of terminal

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". Save after setting, restart the device to take effect.

Note: If the server that the terminal logs in is NAS server, it is necessary to set the protocol as NAS sever in "System Tools"--"Protocol Settings" in the web page, and then set the service parameters.

System Information	<div>SIP options</div> <div> SIP Server: <input type="text" value="192.168.4.106"/> : <input type="text" value="5060"/> Account: <input type="text" value="2"/> Password: <input type="password" value="****"/> Net Port : <input type="text" value="5060"/> Audio port : <input type="text" value="7080"/> Video port : <input type="text" value="9080"/> <input type="button" value="Save"/> </div>
— Basic Settings —	
Net options	
SIP options	
Audio options	
Talk options	
Alarm options	
— System Tools —	
Password Setting	
Language Setting	
Versions Setting	
Update firmware	
Firmware Keywords	
Factory reset	
Reboot	
System logs	

Parameters meanings as following:

SIP server	Please fill the correct SIP server IP address or SIP server domain name, otherwise it can't make SIP conversation, the port can't revise except under the
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	special situation (the default port is 5060).
Account	Default:1
Password	Default:1234
Network Port	Configure network port according the actual situation
Audio Port	Configure audio port according the actual situation

Server options (NAS Protocol)

The default protocol between terminal and server is SIP protocol. If terminal logs in 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, the web version will change to NAS protocol version. Then "service parameters" can be set. After setting, save and restart the device.

The screenshot displays the 'Server options' configuration page. On the left, a sidebar menu includes 'System Information', 'Basic Settings', 'Net options', 'Server options' (highlighted), 'Audio options', 'Talk options', 'Alarm options', and 'System Tools'. Under 'System Tools', there are links for 'Password Setting', 'Language Setting', 'Versions Setting', 'Update firmware', 'Factory reset', 'Reboot', and 'System logs'. The main area shows the 'Server options' form with the following fields: 'Terminal ID' set to 1, 'Local Port' set to 2046, 'Primary Server' set to 192.168.1.13 : 2048, and 'Secondary Server' set to 192.168.1.14 : 2048. A 'Save' button is located at the bottom of the form.

Parameters meanings as following:

Terminal ID	The only No. to identify host, it can't be repeat with other device or hosts. the factory default device NO is 1.
Local port	Terminal port. Note: It can't revise except with the special situation (The default is 2048)
Preferred server	The server IP address of terminal logging, the default Preferred server address is 192.168.1.13.
Secondary Server	server unable to connect, it can login on the standby server. When the preferred server is connected, restart and login to the preferred server. The default secondary server address is :192.168.1.14.

Audio Options

Set the terminal audio parameters and save, then restart the device to take effect.

The screenshot shows the 'Audio options' configuration page. The left sidebar contains a menu with the following items: System Information, Basic Settings (selected), Net options, SIP options, Audio options, Talk options, Alarm options, System Tools, Password Setting, Language Setting, Versions Setting, Update firmware, Firmware Keywords, Factory reset, Reboot, and System logs. The main content area is titled 'Audio options' and contains the following settings:

- Recorder: Enable
- Talking Input Select: Mic
- Talking Output Select: Speaker
- Talking Input Volume: 10
- Talking Output Volume: 8
- Ring Volume: 8
- Broadcast Output Select: Speaker
- Broadcast Volume: 8
- Monitor Volume: 10
- dialing voice close: Enable
- audio fec: Disable
- audio jitter: Disable
- keyword recognition: Disable

A 'Save' button is located at the bottom right of the configuration area.

Parameters meanings as following:

Recording	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.
Input Select	The terminal during intercom default audio source input :microphone Microphone: The audio source is the microphone input Line input: collect audio from external devices as the intercom input source
Intercom Output Selection	The terminal during intercom default audio source output:Speaker Speaker:The voice output from speaker during intercom Line Output:The voice output from line when intercom, no voice output from terminal speaker Note: If "Enable" is selected for the recording interface, the intercom output only supports speaker output, not line output
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	The terminal during broadcast default audio source output:Speaker Speaker: The voice output from speaker during broadcast Line Output:The voice output from line when broadcast, no voice output from terminal speaker Note: If "Enable" is selected for the recording interface, the intercom output only supports speaker output, not line output
Broadcast volume	The output volume during the terminal broadcasting (0~15)
Monitor input select	The total input volume during the terminal monitored (0~15)
Intercom Tone	Enable: The terminal has a prompt tone (such as a call prompt tone, busy prompt tone, etc.) when the intercom is initiated;

	Disabled: There is no prompt tone when the terminal initiates an intercom.
Audio adaptive & Audio stabilization	When it is enable, can improve the audio quality in a poor network environment (such as network packet loss). 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.
Keyword Recognition	Reserved

Intercom Options

Set the terminal intercom parameters and save, then restart the device to take effect.

Parameters meanings as following:

Auto answer	Setting up the mode of terminal receive intercom. When it is enabled, it is automatically answered. When it is disabled, you need to press the "Intercom" button to connect to the intercom.
Hang up	Setting the mode of terminal hanging up, If forbidden, it can't be hang up. If starting, it is ok for hang up.
Echo cancellation	Enabled by default; If forbidden the echo existed during the intercom
Offline Intercom	When it's enabled, the terminal can call the targets which set well in offline parameters. when it's forbidden, the terminal can not intercom.
Left Button Call Target	When offline intercom is enabled, the IP of left button should be set: The terminal ID@IP + port (eg. 2@192.168.1.101:5060)
Right Button Call Target	When offline intercom is enabled, the IP of right button should be set: The terminal ID@IP + port (eg. 2@192.168.1.101:5060) Note: One button version terminal just need set "Left Button Call Target"
IP Broadcast IP	When this function is enable, the terminal will broadcast the device ID, IP address, subnet mask etc information when pressing the left or right button even if the terminal without network.

Alarm options

Set the terminal alarm parameters and save, then restart the device to take effect.

The screenshot shows the 'Alarm options' configuration page. The left sidebar menu includes: System Information, Basic Settings, Net options, SIP options, Audio options, Talk options, Alarm options (selected), System Tools, Password Setting, Language Setting, Versions Setting, Update firmware, Firmware Keywords, Factory reset, Reboot, and System logs. The main configuration area contains the following settings:

- emergency al: Enable (dropdown), Priority 1 (dropdown)
- moving alarm: Disable (dropdown), Priority 2 (dropdown)
- door1 alarm: Enable (dropdown), Priority 4 (dropdown)
- door2 alarm: Enable (dropdown), Priority 4 (dropdown)
- Noise alarm: Disable (dropdown), Priority 3 (dropdown)
- talking alarm: Enable (dropdown), Priority 5 (dropdown)
- Dismantle alarm: Enable (dropdown)
- door open ctrl: Disable (dropdown)
- alarm trigger 12V output: Disable (dropdown)
- extern in1: Disable (dropdown)
- extern in2: Disable (dropdown)
- pannel speaker testing: Disable (dropdown)
- Noise alarm Trigger Volume: 10 (dropdown)
- Noise alarm Trigger Time(s): 5 (dropdown)

A 'Save' button is located at the bottom right of the configuration area.

Parameters meanings as following:

Emergency Alarm	<p>The alarm source is the "emergency alarm" port of the external alarm control module.</p> <p>When it is enabled . The three-color door light flashes red when the emergency alarm port is triggered to alarm. The three-color light turn off when the alarm is released.</p> <p>Pressing the "right button" of the terminal also can light up the three-color door light (flashing red),release alarm and turn off the three-color door light.</p> <p>Priority: Task priority level. The lower the priority number, the higher the level. If two alarms (or tasks) are triggered at the same time, the terminal responds to the higher-priority alarm and lights the corresponding three-color door light.</p>
Motion detection alarm	<p>The alarm source is the "Motion detection alarm" port of the external alarm control module.</p> <p>When it is enabled.The three-color door light flashes yellow when the terminal receives the motion detection alarm signal from the external camera. The three-color light turn off when the alarm is released.</p> <p>Priority is the same with emergency alarm.</p>
Door sensor status	<p>When it is enable.The three-color light will be light when the terminal detects that the door sensor is turn on.</p> <p>When door sensor 1 is turned on, the three-color door light is always green;</p> <p>When door sensor 2 is turned on, the three-color door light is always blue;</p> <p>When the door sensor is closed, the three-color light turn off.</p> <p>When it is forbidden, do not detect door sensor status.</p>
Hubbub alarm	<p>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;</p>

	When the terminal makes hubbub alarm, the three-color light is on (flashing green); When hubbub alarm released, the three-color light is off.
Intercom Alarm	When the terminal is intercom, the three-color door light will be on synchronously (flashing green). When the call is over, the three-color door light will turn off.
Tamper 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.
Remote door opening control	Default is forbidden When it is enabled, when the other party presses the "Unlock" key during the conversation with the IP network visualization console, it will trigger the short-circuit output port of the machine to close. Disable it will not trigger.
Alarm Trigger 12V Output	When it is enable, press the call button (single button terminal) or the left button (dual button terminal) to trigger the 12V controlled power output of the device. Disable it will not trigger.
External Input	Reserved
Panel 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.
Hubbub alarm volume	The environmental noise reach the alarm level.
Hubbub alarm time	Environment lasting hubbub time, the unit is second.

Note: When the alarm with priority is triggered, the server will display the terminal name and alarm time in the pop-up window, as well as voice reminders. The pop-up window will automatically exit after the alarm is released.

There are two ways to cancel the alarm: By server software & Deactivate alarm button. The server will display the alarm cancellation information simultaneously.

Password Setting

The WEB account and password can be revised on the WEB management parameter. Save setting, restart the browser to take effect

System Information	<div> <div>System Tools</div> <div> <div>Basic Settings</div> <div>Net options</div> <div>SIP options</div> <div>Audio options</div> <div>Talk options</div> <div>Alarm options</div> <div>System Tools</div> <div> <div>Password Setting</div> <div>Language Setting</div> <div>Versions Setting</div> <div>Update firmware</div> <div>Firmware Keywords</div> <div>Factory reset</div> <div>Reboot</div> <div>System logs</div> </div> </div> </div>
Basic Settings	
Net options	
SIP options	
Audio options	
Talk options	
Alarm options	
System Tools	
Language Setting	
Versions Setting	
Update firmware	
Firmware Keywords	
Factory reset	
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System logs	

Original username :

Original password :

New username:

New password:

Password Confirm :

Save

Clear

Language Setting

Switch WEB language between English & Chinese.

Protocol 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.

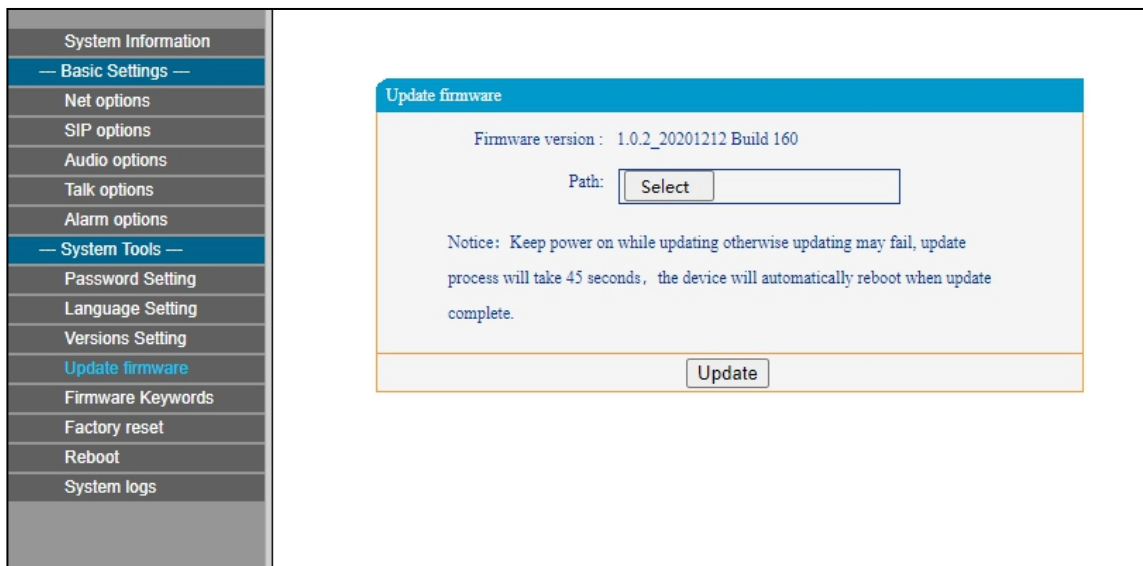
Note: Web pages of different protocols are slightly different. For details, please refer to the actual interface.

Update Firmware

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:

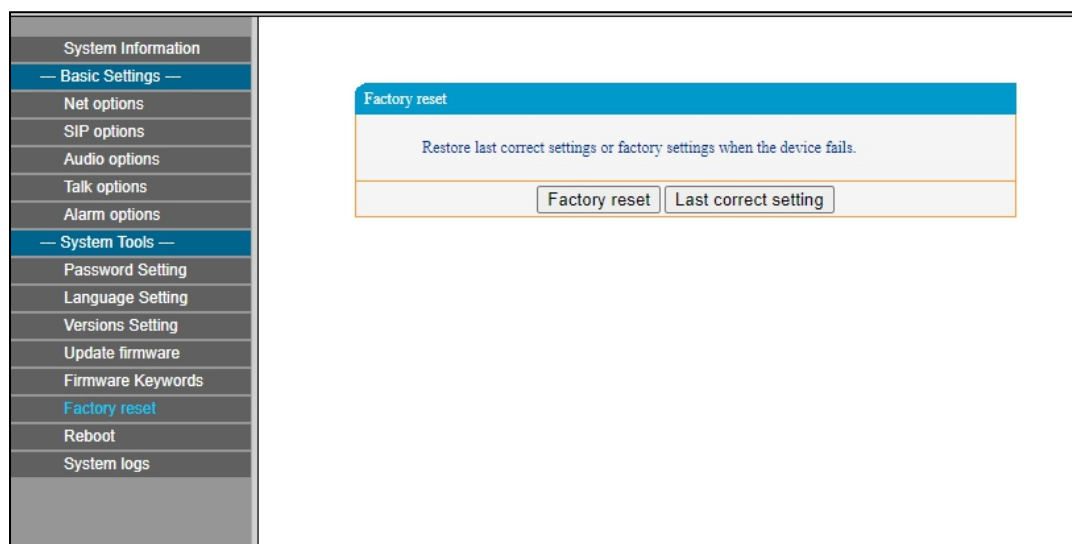
1. Do not cut off the power during the upgrade process, otherwise, the upgrade may fail and the equipment may malfunction. The upgrade process takes about 45s, after upgrade completed the device will automatically restart.
2. Do not upgrade the firmware unless you have special needs.



Factory Reset

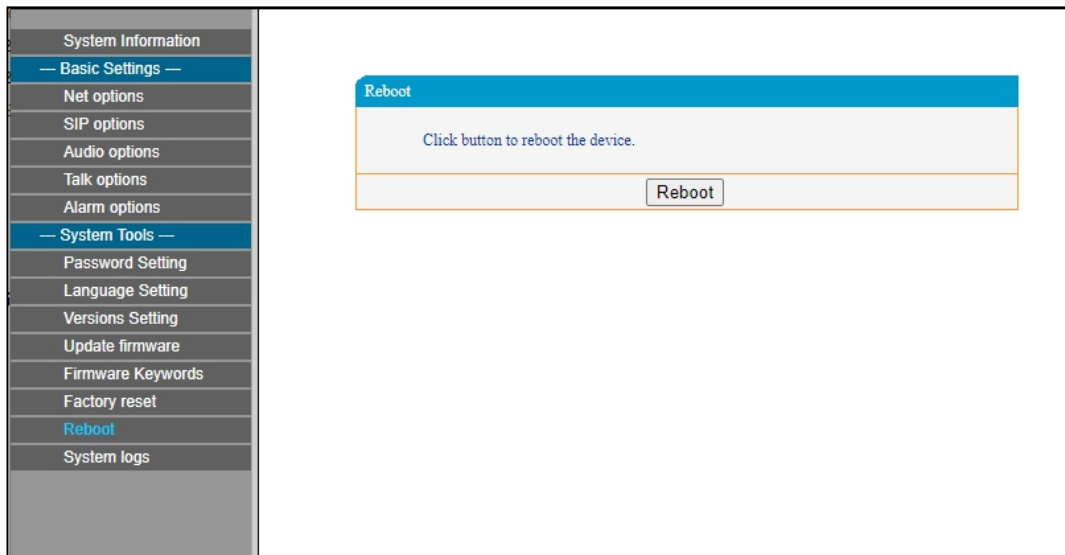
Restore factory settings: All parameters are restored to factory settings;

Last correct configuration: restore to the last parameters that can log in to the server.



Reboot

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



Other Functions

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

Basic Functions

Initiate Intercom

Press the left or right button to call the target terminal specified by the service software.

Note: The default call is the intercom terminal with ID number 001. Multiple call objects can be set. When the called object is busy, it can transfer to the next one can automatically.

Receive Intercom

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

Offline Intercom

For example, offline intercom is enabled, and the left and right button mapping is set correctly when offline. When the device is offline, press the left or right button to call the specified target.

Receive Broadcast

Support receiving server broadcast and terminal broadcast.

Trouble Removal

The terminal can not log in the server?

1. Check whether the service software and the host computer are normally turned on. Before opening the service software, you need to turn off all firewalls (including the firewall that comes with the system and firewalls contained in other anti-virus software);

2. Check whether the network connection is normal, check the network cable and switch connected to the terminal, check if there is any phenomenon such as normal operation, damage or poor contact;

3. Check the IP settings of the terminal. Check whether the terminal ID number, service IP, local IP, gateway IP and other parameters are set correctly;

Web display abnormal?

Emptying the cache or change the browser

Terminal alarm cannot trigger 12V warning light

Check the web page "Alarm Parameters", the "Alarm Trigger 12V Output" must be configured as "enabled"

Remote unlock by the center microphone does not take effect?

Check the web page "Alarm Parameters", the "Remote Unlock" must be configured as "enabled"

Hubbub alarm cannot be triggered

Check the web page "Alarm Parameters", the "Hubbub Alarm" must be configured as "enabled"

Check the Hubbub alarm volume setting if too high.

Local Recording no sound

When offline, the local recording output configuration is controlled by the web page "Audio Parameters"- "Intercom Output Volume" setting. When the server is registered, the recording volume is controlled by the server.

Check whether the volume setting is 0.

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.

Copyright Announcement

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