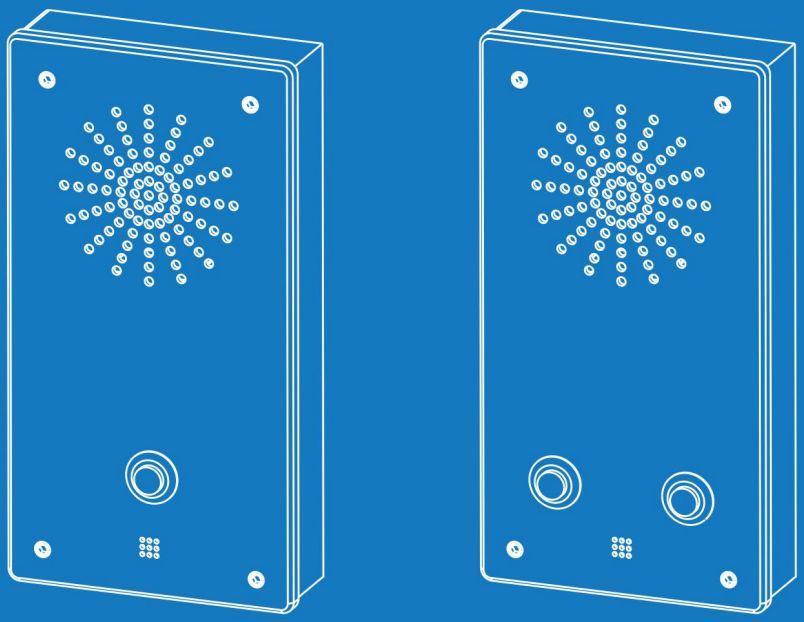
SPON

IP NETWORK INTERCOM TERMINAL

User Manual



IP NETWORK INTERCOM SYSTEM

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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

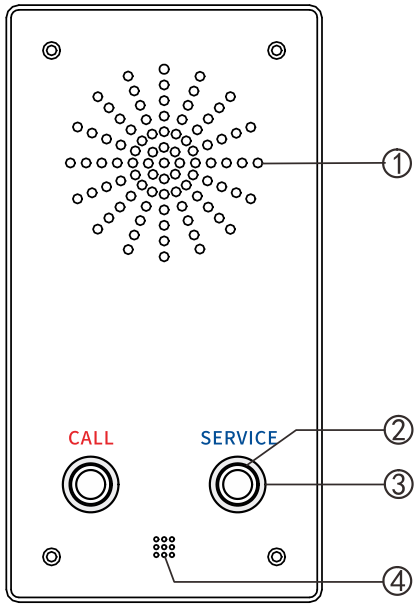
IP network intercom terminal which is embedded with the IP Audio digital network audio technology of SPON independent intellectual property rights, the terminal is equipped with power input interface, alarm input, alarm output etc ports. With intercom and broadcast etc functions.

Features

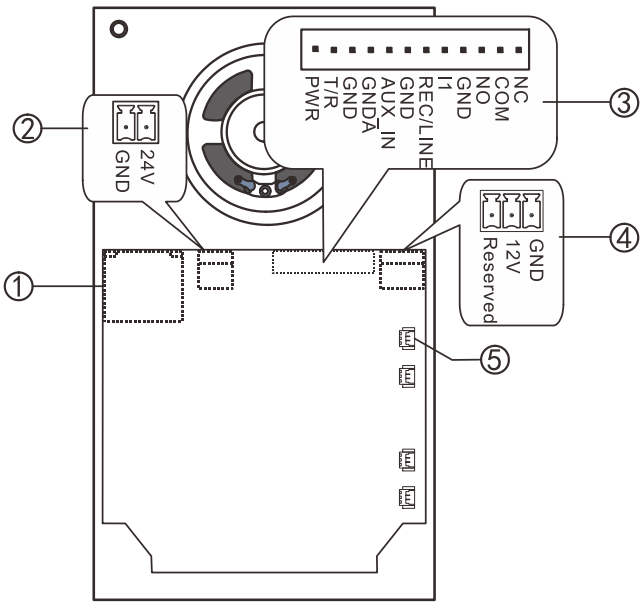
- With brushed aluminum, violence-resistible, all-metal panel and embedded installation
- With a built-in speak and microphone, available for hands-free call and receiving broadcast;
- Supportive offline intercom (initiation & receiving) without server, can configured offline call target in WEB page.
- 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

【Front】



【Back】



【Front】

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.

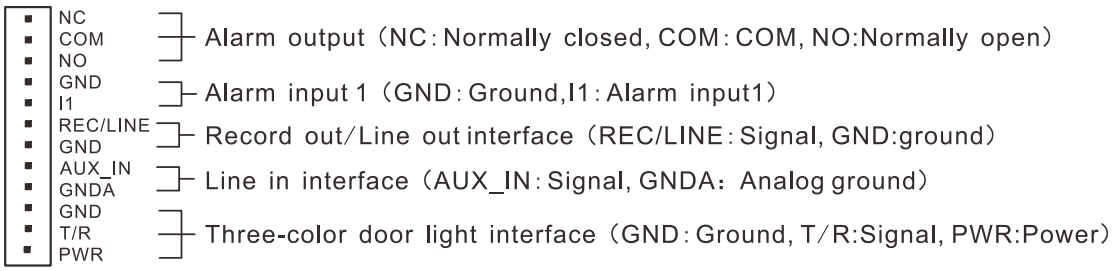
④Mic

【Back】

①Network port: insert the network cable and connect to the server(support POE power supply).

②Power interface: DC24V/DC12V power input.

③Signal interface:



④Controlled power output interface: DC12V power output.

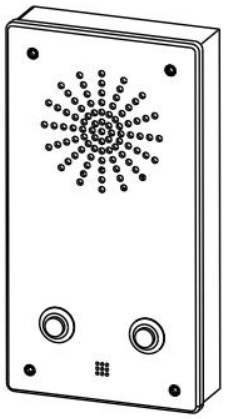
⑤Alarm input interface: Reserved.

Introduction

Packing List

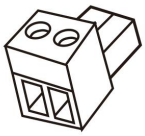
IP network intercom terminal includes following fittings, please examine the fittings before installation, if any missing, please contact the distributor.

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



（2）Wiring Terminal（3.5-3P）1pcs

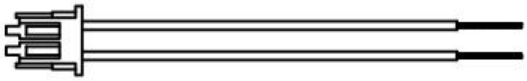
（3）Wiring Terminal（3.5-2P）1pcs



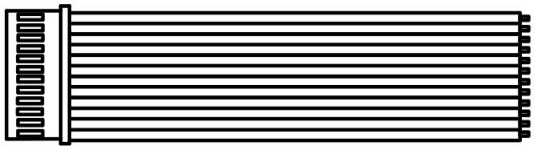
（4）Allen screw（M3*12）4pcs

（5）Allen screwdriver 1pcs

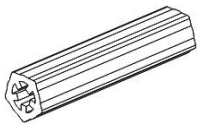
（6）Red-Black line (X2-80) 1pcs



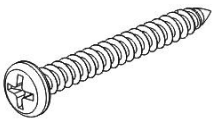
（7）Red-White line (X12-100) 1pcs



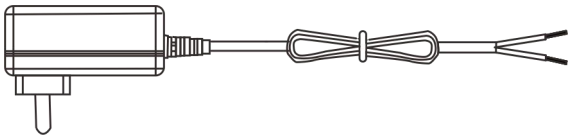
（8）Plastic swelling cover 4pcs



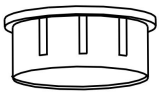
（9）Tapping screw（ST4*25）4pcs



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



（11）Plug（HP-16）1pcs



（12）Plug （SMR7/8BK1）1pcs

（13）Installation instructions 1pcs

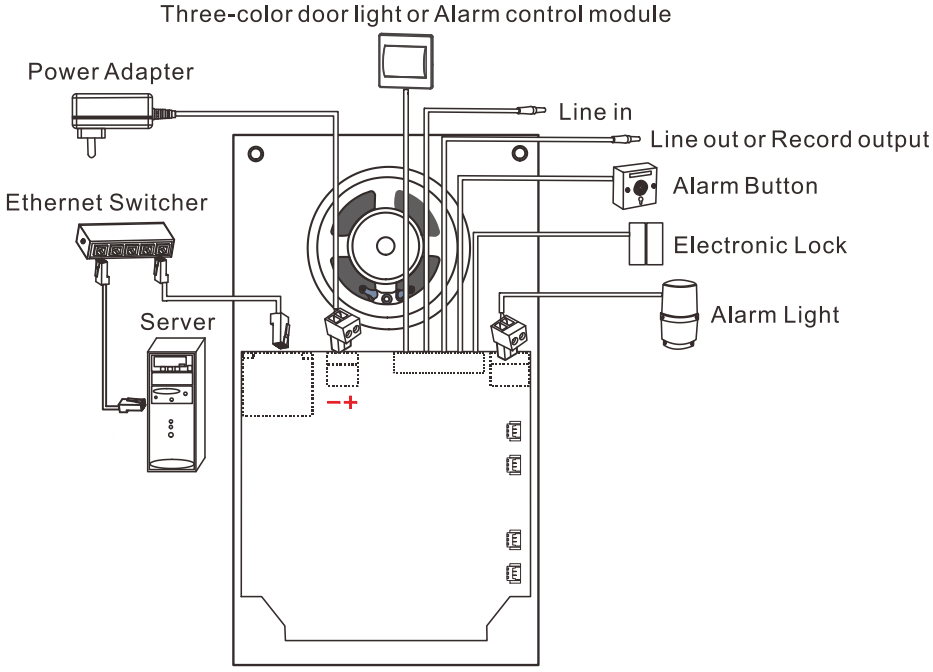
（14）Certification 1pcs

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.



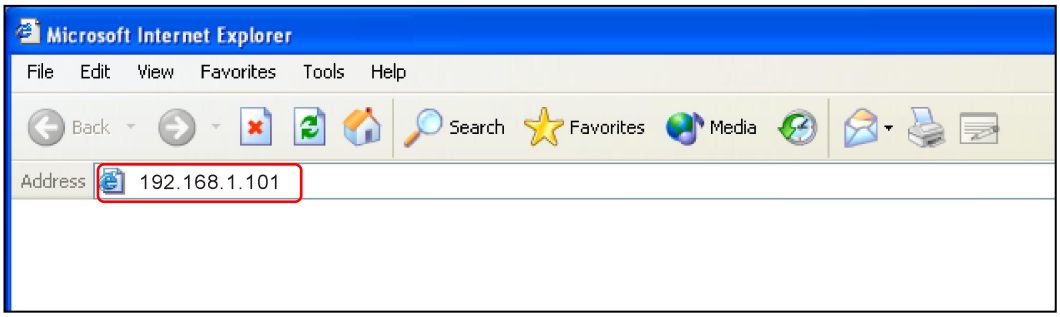
Basic Network Settings

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

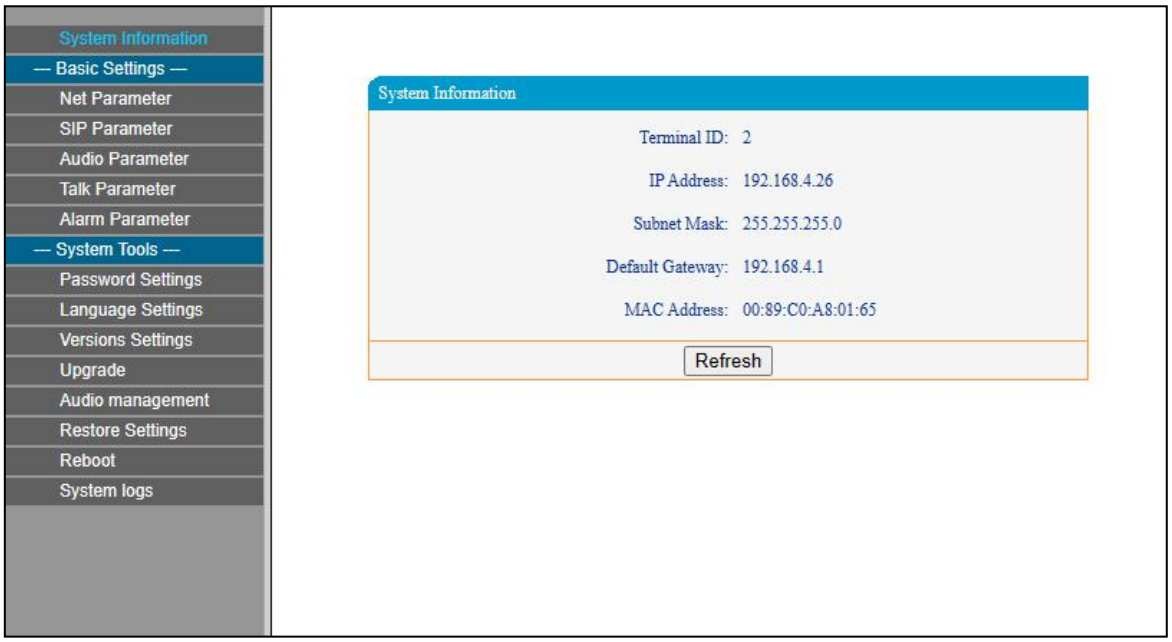
Login Web Interface

(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.



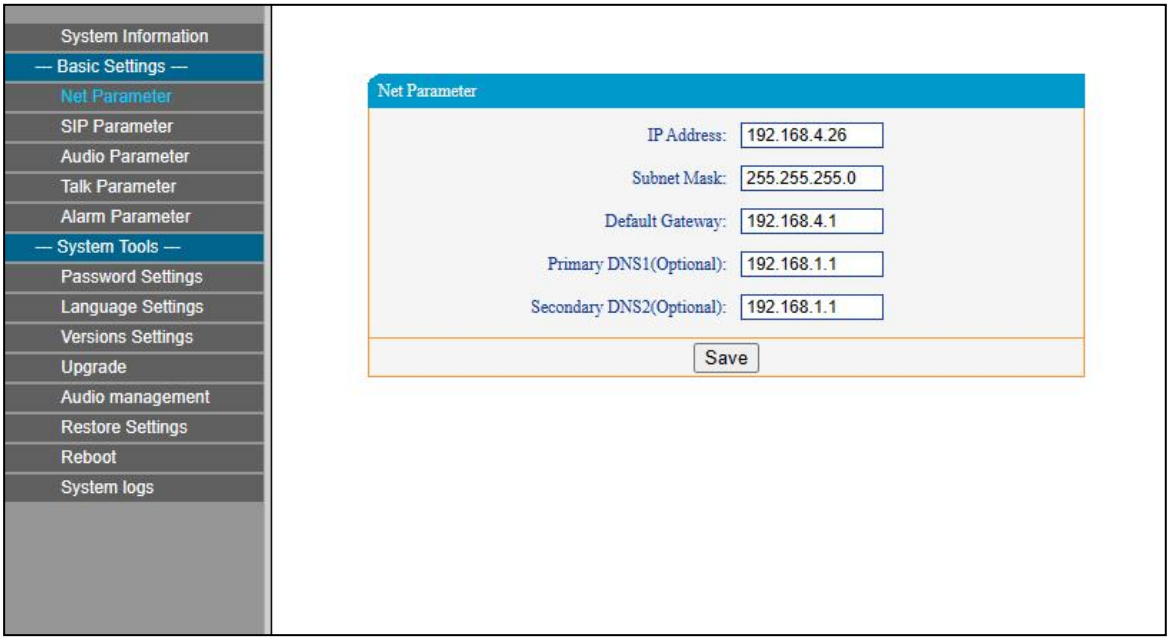
（2）Enter the user name and password in the web page （the default user name and password is admin）

（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.



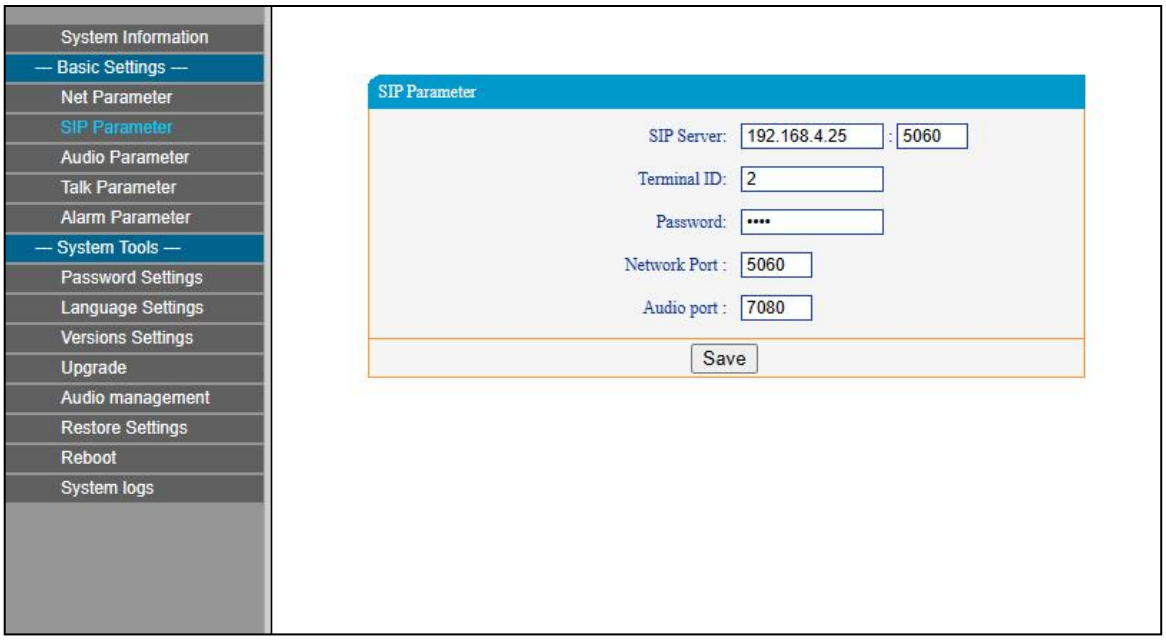
Parameters meanings as following：

IP Address	Terminal IP address. The factory default IP address is 192.168.1.101 。
Subnet Mask	The subnet mask of the terminal
Default Gateway	The network gateway of the terminal
Primary DNS1	The preferred domain name interpreter IP of terminal
Secondary DNS2	The standby domain name interpreter IP of terminal

SIP Parameter（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.

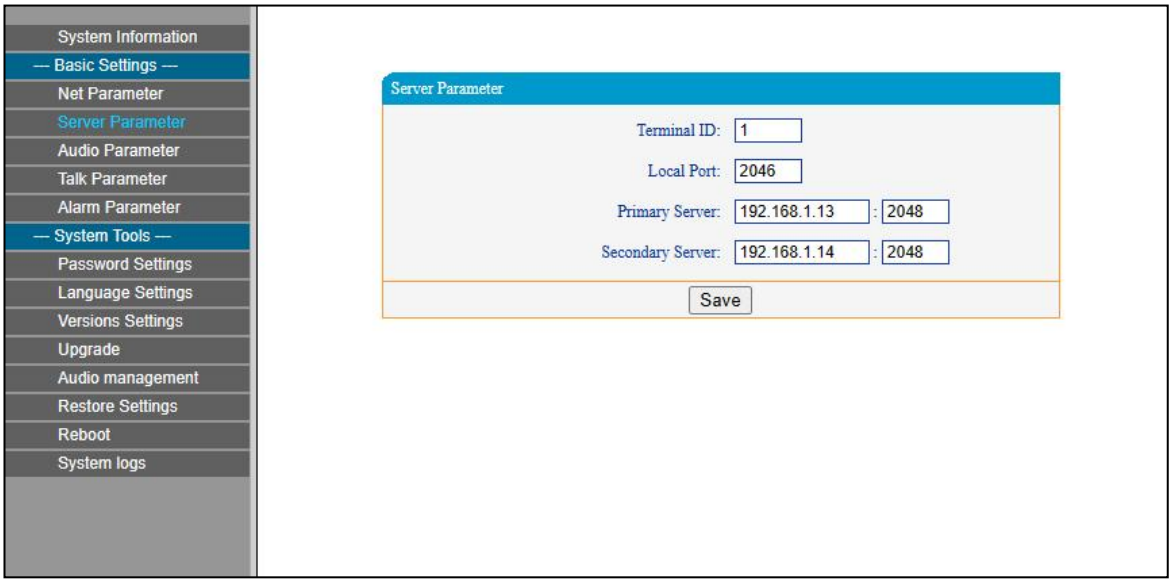


Parameters meanings as following:

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 special situation (the default port is 5060).
Terminal ID	Default:1
Password	Default:1234
Network Port	Configure network port according the actual situation
Audio Port	Configure audio port according the actual situation

Server Parameter（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.

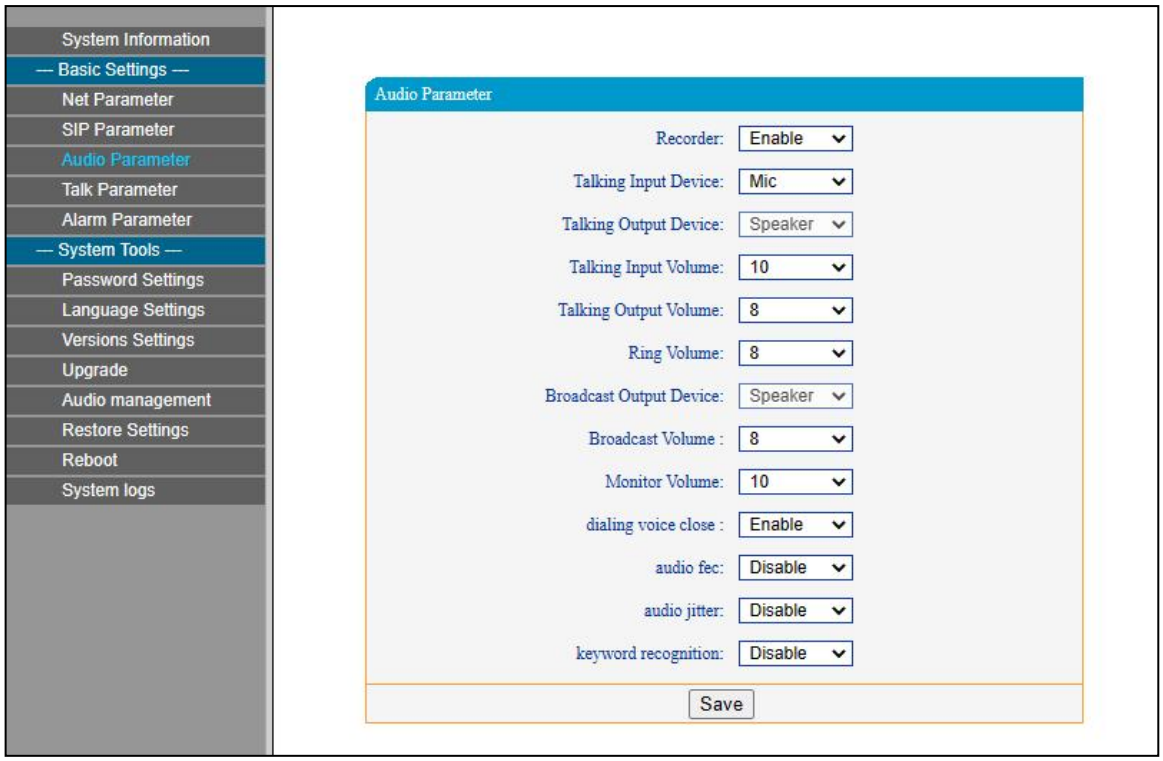


Parameters meanings as following:

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.



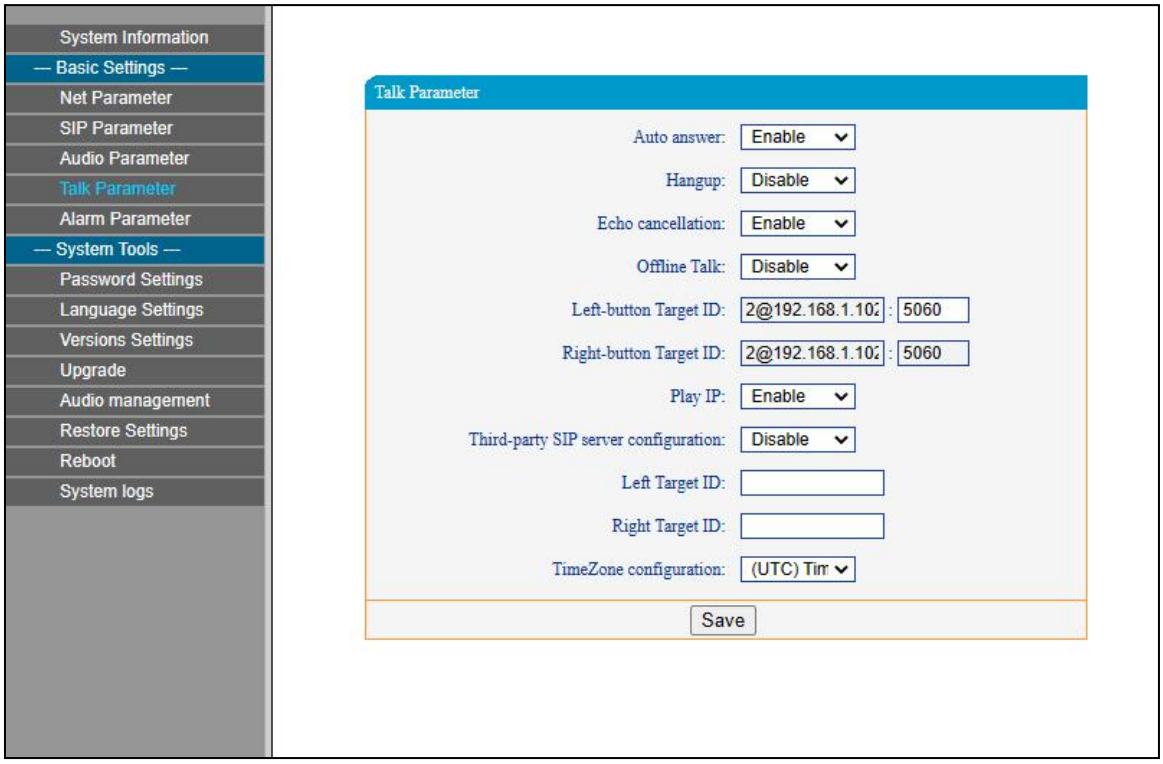
Parameters meanings as following:

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 Input Device	The input audio source of the terminal during the intercom, the default is Mic. Mic: the audio source is the input of the microphone. Line: collect the audio of the external device as the audio input source.
Talking Output Device	The audio output method of the terminal during the intercom.The default is 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.
Talking Input Volume	The total input volume within the conversation（0~15）
Talking 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 volume	The total input volume during the terminal monitored (0~15)
Dialing voice close	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 fec & audio jitter	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

Talk Parameter

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



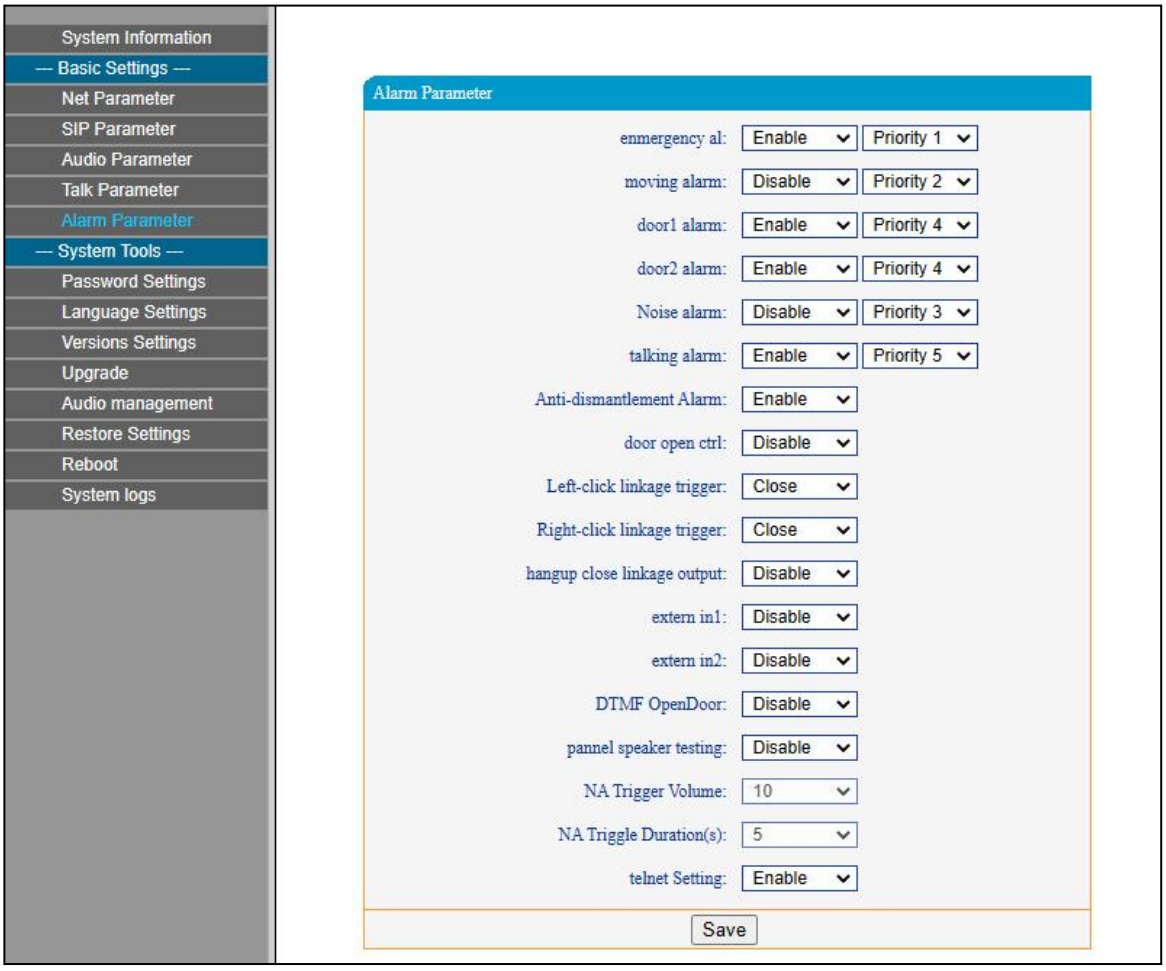
Parameters meanings as following：

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 Talk	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 Target ID	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 Target ID	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”
Play IP	When this function is enable, the terminal will broadcast the device ID,IP address,

	subnet mast etc information when pressing the left or right button even if the terminal without network.
Third-party sip sever configuration	Set whether to enable third-party sip sever configuration function. (Under sip protocol)
Left Target ID	The target IP address of the target terminal corresponding to the left button of the terminal. (Under sip protocol)
Right Target ID	The target IP address of the target terminal corresponding to the right button of the terminal. (Under sip protocol)
TimeZone configuration	Select the timezone.

Alarm options

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



Parameters meanings as following:

Emergency Alarm	The alarm source is the "emergency alarm" port of the external alarm control module. 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. 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. 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.
Moving alarm	The alarm source is the "Motion detection alarm" port of the external alarm control module. 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. Priority is the same with emergency alarm.
Door alarm	When it is enable.The three-color light will be light when the terminal detects that the door sensor is turn on. When door sensor 1 is turned on, the three-color door light is always green; When door sensor 2 is turned on, the three-color door light is always blue; When the door sensor is closed, the three-color light turn off. When it is forbidden, do not detect door sensor status.
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; When the terminal makes hubbub alarm, the three-color light is on (flashing green); When hubbub alarm released, the three-color light is off.
Talking 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.
Anti-dismantlement 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.
Door open alarm 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.
External Input	Reserved
DTMF OpenDoor	Set whether to enable DTMF remote door unlocking function. The default is disable.
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	Environment lasting hubbub time, the unit is second.

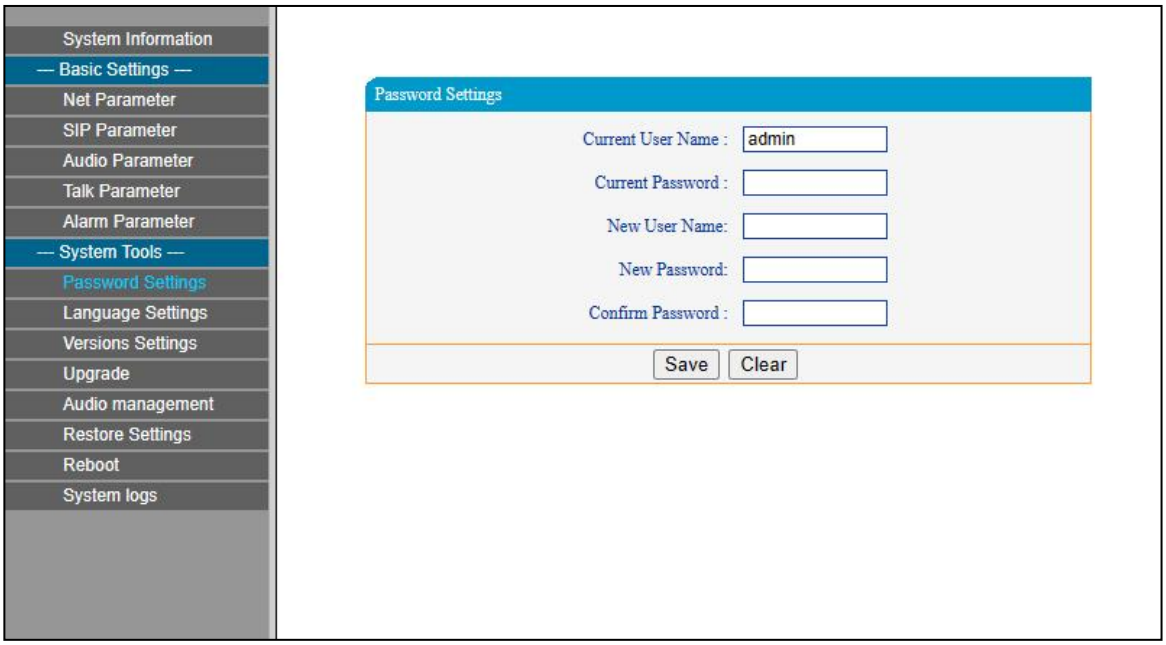
duration	
telnet and ftp setting	Set whether to enable the Telnet remote access terminal function and FTP remote file transfer function.

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.

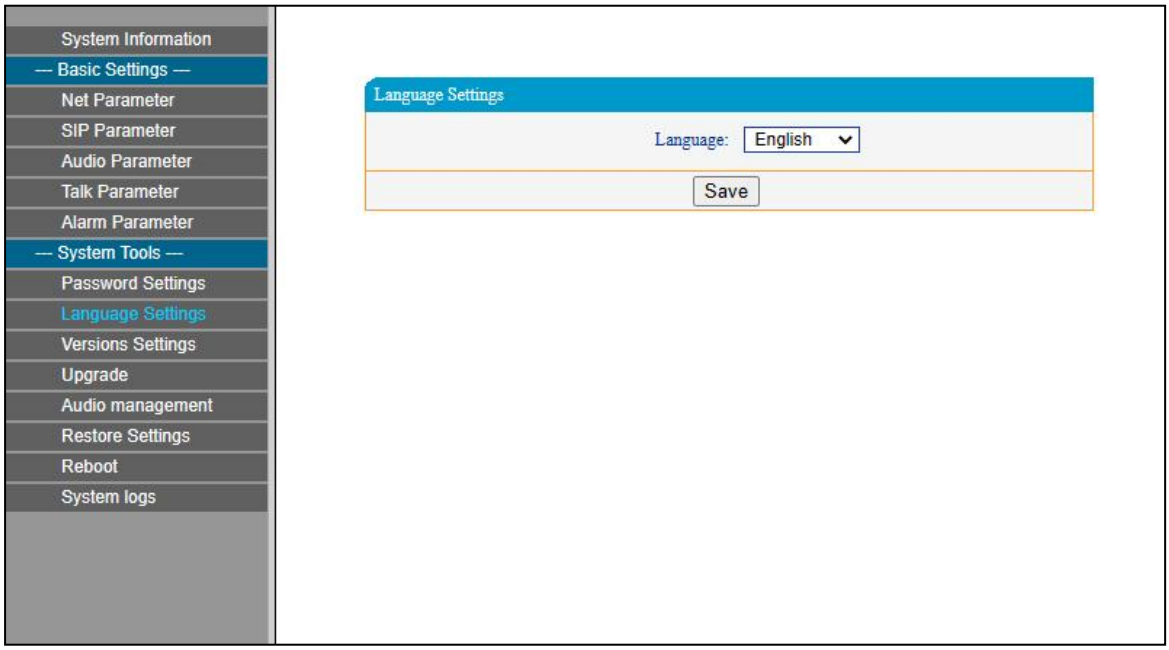
Password Setting

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



Language Setting

Switch WEB language between English & Chinese.

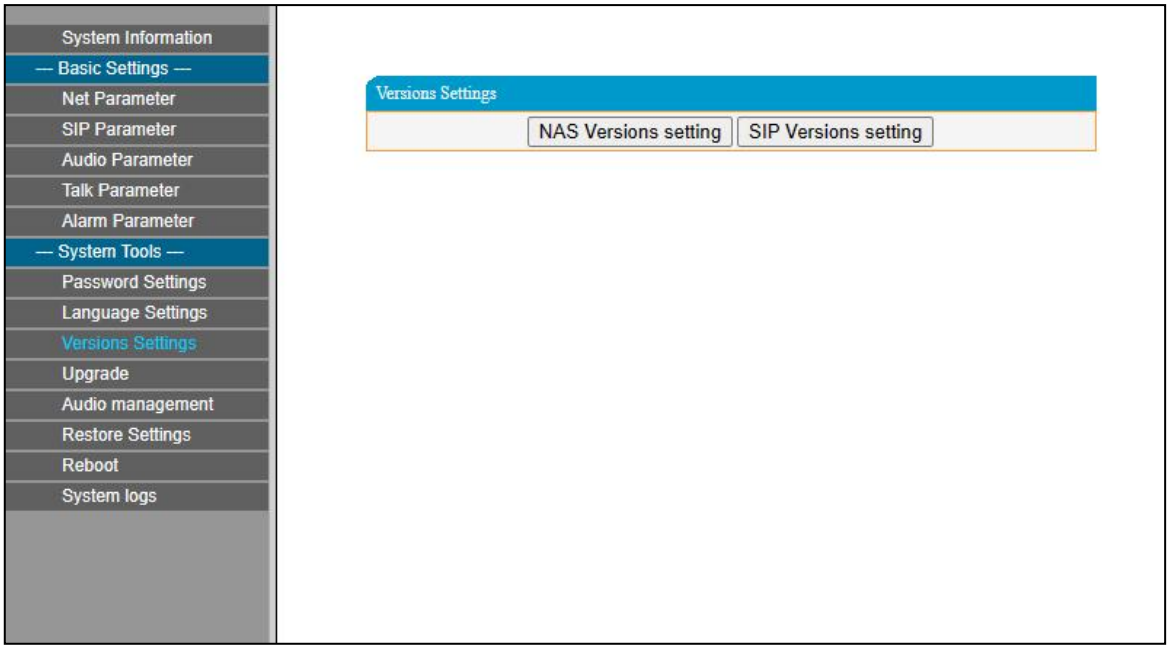


Protocol Setting

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.



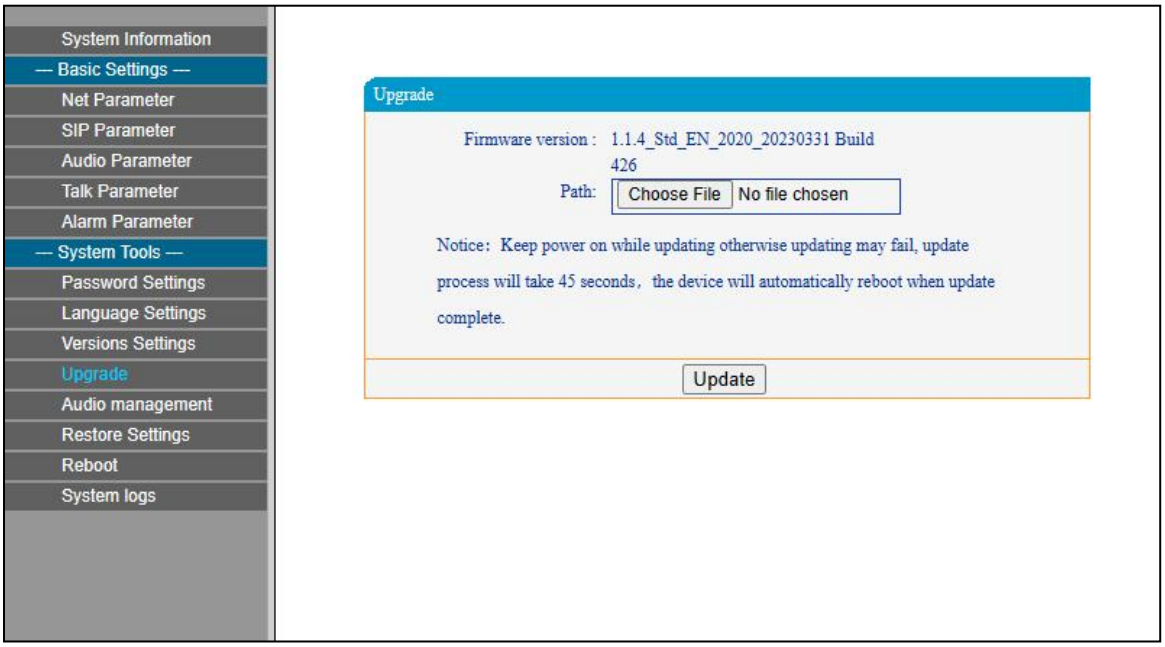
Update Firmware

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.

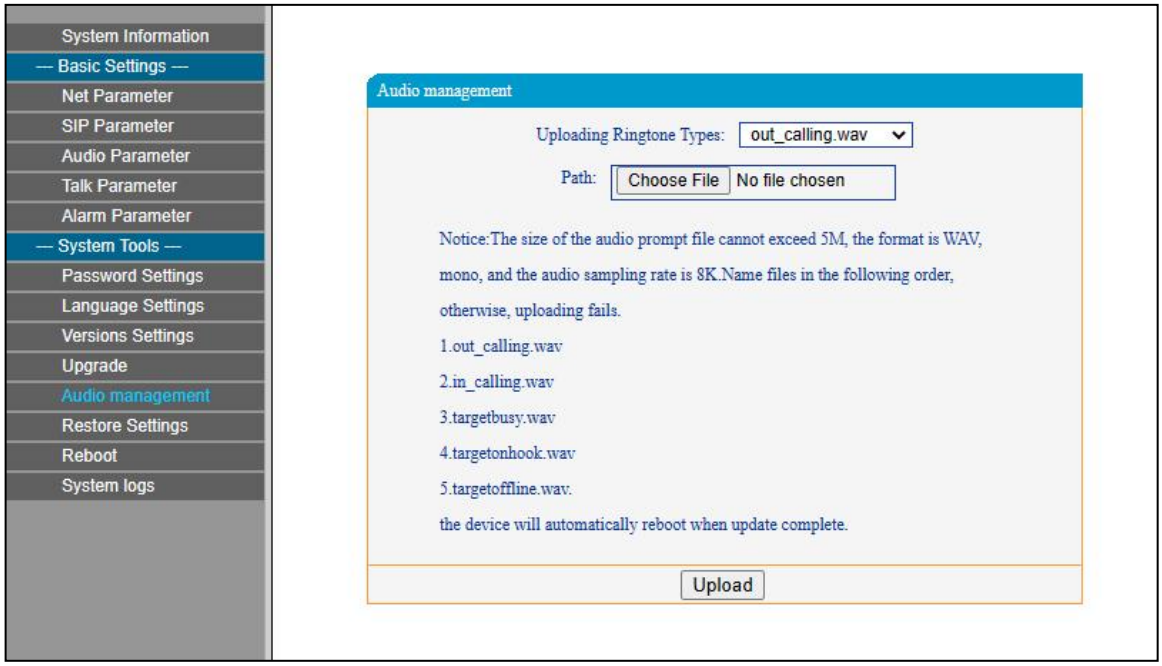


Audio Management

Users can upload audio prompt files here. The size of file cannot exceed 5M, the format is WAV, and the audio sampling rate is 8K. After the file operation succeeds, restart the device to take effect.

When uploading an audio prompt file, click "Select file" to select the uploaded audio source file, and then click on “upload” button.

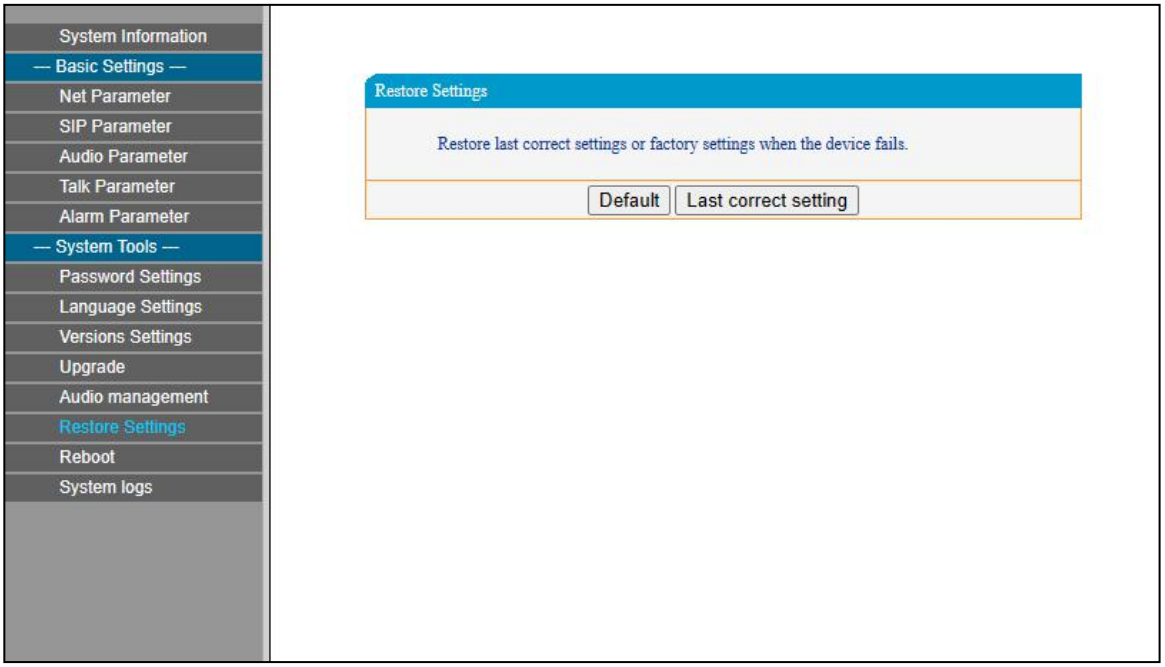
Note: If the device is restored to factory Settings, you need to upload the audio prompt files again.



Factory Reset

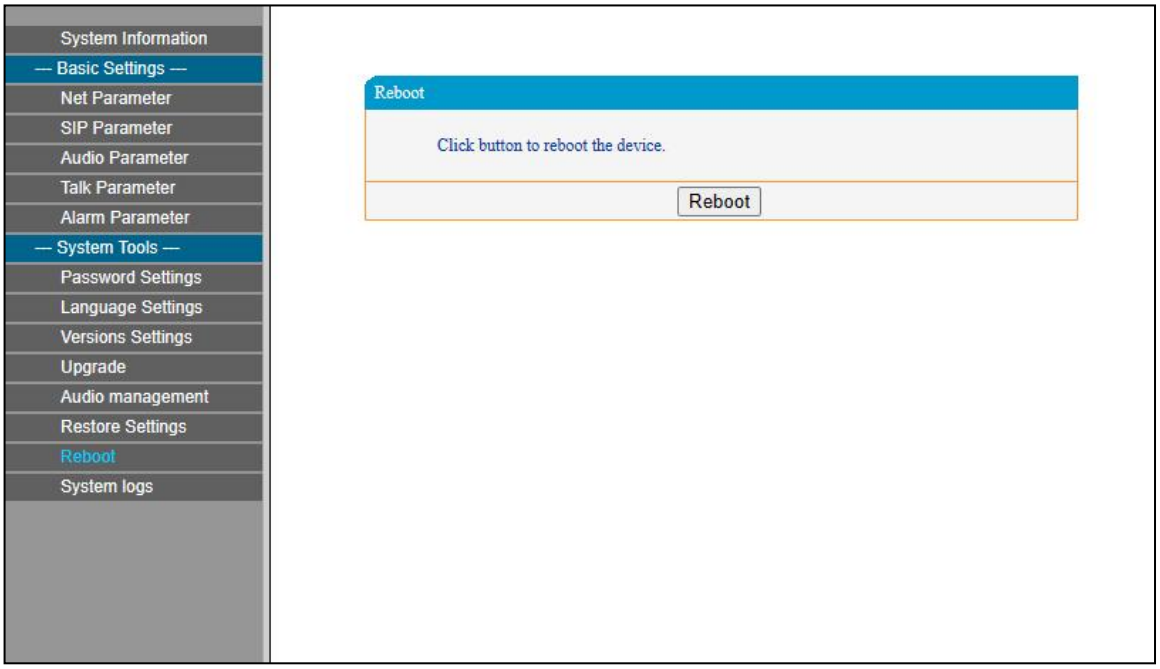
Restore factory settings: All parameters are restored to factory settings;

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



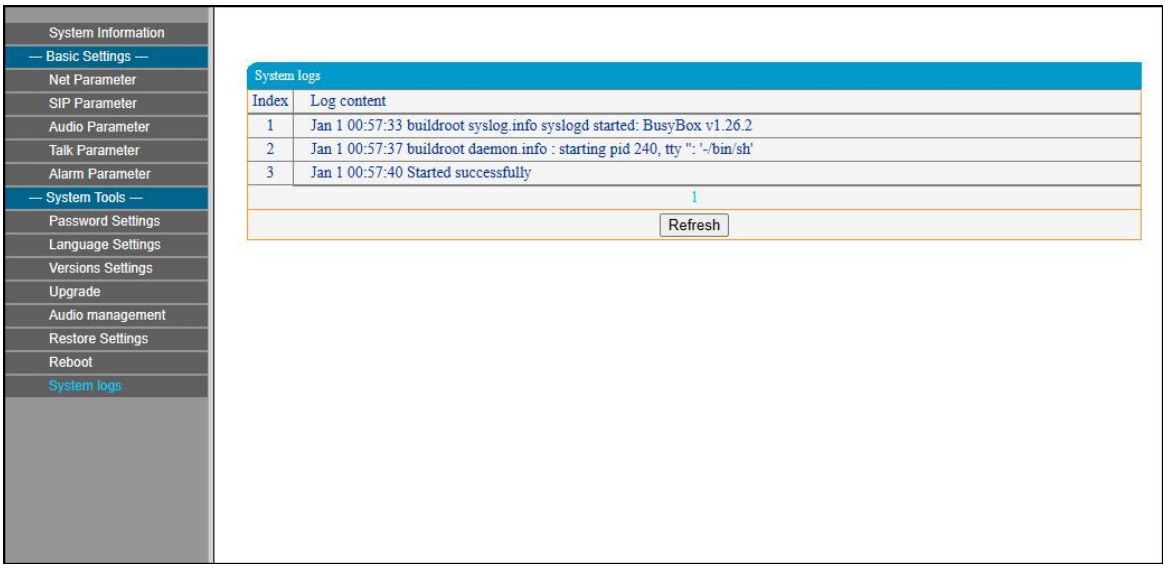
Reboot

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



System Logs

Terminal can record device application condition and make the log, user can browse the system log in web page.



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.

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