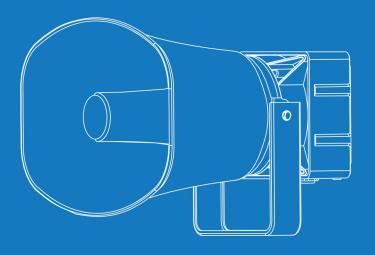
SPON IP HORN SPEAKER User Manual



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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.

 $(3) \ \ \text{Please do not touch it when thundering}$

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.



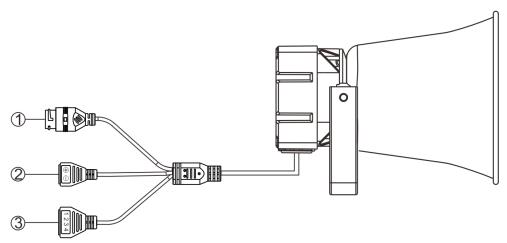
Product Introduction

IP horn speaker embedded with the IP audio digital network audio technology of independent intellectual property rights, can receive other terminals or server launched broadcast, support the browser to perform functional settings. It has the function of loop fault detection. It can detect the working state of the speaker and display it on the server software.



- Receive broadcast: IP horn speaker can receive broadcast from servers or other terminals.
- Loop detection: the IP horn speaker has self checking function, and can detect the working state of speakers through the loop.
- The timing program plays: upload the audio source every day needed to the server, programmer the playback plan, and the IP horn speaker can be automatically broadcast according to the planned tasks assigned by the server.
- System settings through browser: users can configure of the IP horn speaker, such as the network parameters, audio parameters, amend the login password and so on through the browser to realize the personalized configuration.
- Support POE power supply

Interface Description



- ①Network interface: insert a cable to the switch or POE switch.
- ②Power interface: DC24V/1A, supply for the IP horn speaker. (The device supports POE, need no more power supply if the network interface are already connected with POE switch.)

Note: ③ is reserved interface.

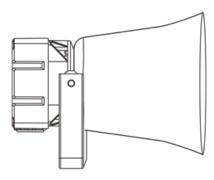


Introduction

Packing List

IP horn speaker is including the following fittings, please check all the fittings before installation. Please contact your supplier if there is any missing.

(1) The IP horn speaker 1 PCS



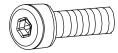
(2) waterproof connector 1 set



(3) wiring terminal (3.81-2P) 1 PCS



(4) Inner hexagon screw 2PCS (M8*18)



(5) Plug-in power adapter 1 PCS (DC24V/1A, optional)



(6) Certification 1 PCS

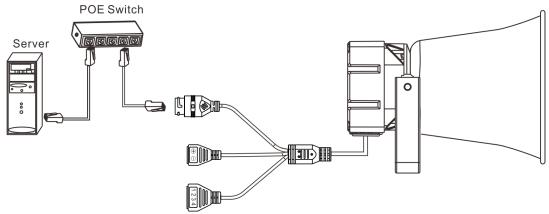


(7) Quick installation manual 1 PCS





Wiring

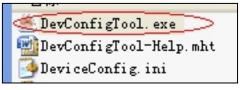


Note: The device supports two ways of power supply: POE switch or power adapter, POE switch can not be connected when power adapter is used, and no more power supply is needed when POE switch is used.

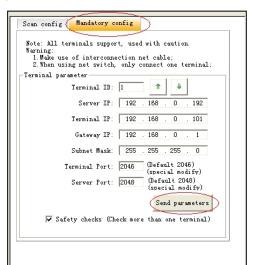
Basic Network Settings

Terminal devices scanning tool

(1) Under the menu of [optical disc:\tool software\] found" Devconfigtool.exe" and run it, after starting, input the defaulted password"123456"



(2) Please select the [mandatory config] from the right menu, then fill each correct parameters in the [terminal parameter], it will be finished IP parameter configuration once pressed "send parameters"



Note:

1. If use Win7 system operating, please taking the administrator mode to run and close all the firewall and related software.



2. The terminal scanning tools can only set the network parameter configuration to one terminal at one time, so please ensure one computer only connect with the one target terminal.

Webpage mode

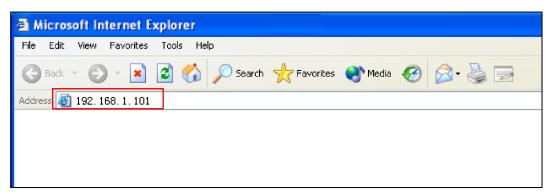
Enter the web interface of the IP horn speakers, modify the parameters of the network parameters according to the scene environment, and click "save" after setting up.

The specific operation steps refer to the network parameters settings in the user-define terminal parameters.

User-Define Terminal Parameters

Login web interface

(1) Please input the IP address of IP horn speakers to the address column of the browser (the factory default IP address is 192.168.1.101, it will automatically play the IP address when the 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)



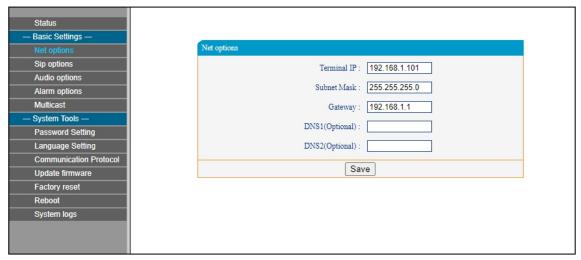
(3) Click OK to enter into IP horn speakers webpage.





Network Parameters

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



parameters as following:

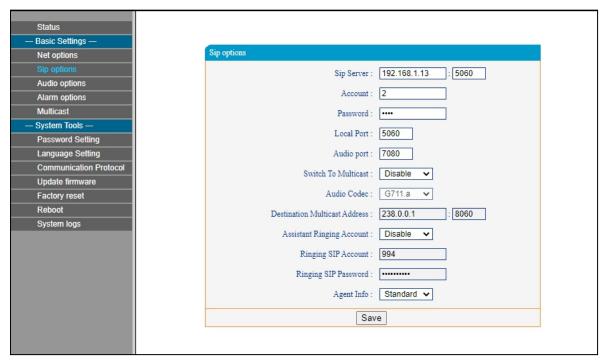
| IP address | IP address of the device, the factory default is 192.168.1.101 |
|----------------------|--|
| Subnet mask | Please set the subnet mask (factory default: 255.255.255.0) |
| | The gateway of the network where the device is located (factory default: |
| Default gateway | 192.168.1.1) |
| Preferred DNS server | The preferred domain name interpreter IP of the terminal |
| Alternate DNS server | The standby domain name interpreter IP of the terminal |

SIP Parameters(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:

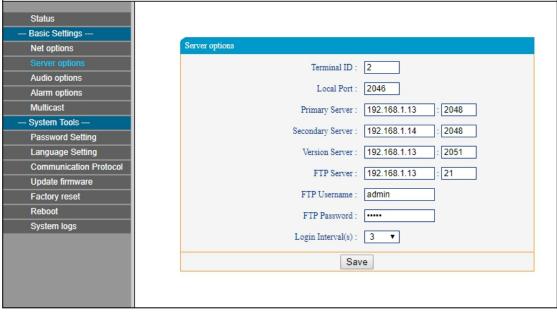
| SIP Server | The address of the SIP server of the device. Please fill in the IP address or |
|----------------------|---|
| | domain name of the SIP server correctly. Do not modify without special situation |
| | (default is 5060). |
| Account | The SIP account of the terminal, it can not repeat with other terminals. |
| Password | The password for the terminal to log in to the SIP server must not be duplicated |
| | with other terminals. |
| Local Port | Configure the local port according to actual situation. |
| Audio Port | Configure the audio port according to actual situation. |
| Calling to Multicast | Calling tansfer to multicast can be enabled settings (calling transfer to multicast, |
| | when receiving the SIP call initiated by IP phones, the multicast streams will be |
| | send to itself and SIP speakers). |
| Destination | Enable calling transfer to multicast, when IP phone initiate call to SIP account, it is |
| | available to initiate multicast to "destination multicast address and port", other |
| multicast address | terminals under the multicast address will receive multicast broadcasting. |
| | Enable and set up the assistant ringing SIP account, once any talk or broadcast to |
| | the assistant ringing account, the speaker will output the ringing sound. |
| A i - t t i | The ringing SIP account and the SIP phone can be put into a group. When calling |
| Assistant ringing | to group phone, all terminals in the same group will be ringing. The ringing will be |
| account | stopped after the call be connected. |
| | XC server software ringing group configuration: add ringing group in server |
| | software of [basic Settings] - [Talk Settings]. |
| Ringing SIP | 0.15; ; 0.15 |
| account/password | Set Ringing SIP account /password. |
| Agant Info | Set the registered name of the SIP server displayed internally. |
| Agent Info | Standard, Custom1 and Null can be selected. |

Server Parameters (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.



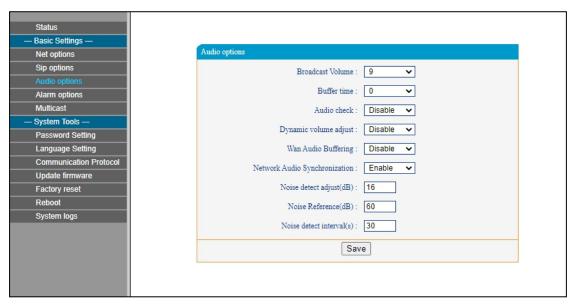
Parameters as following

| Terminal ID | The only number to identify terminal, it can not repeat with other terminals or |
|------------------|---|
| | hosts, the factory default is 1. |
| Local Port | The port No. of the terminal |
| | Note: please do not modify the port (the default is 2046) without any special |
| | situation. |
| Primary Server | The server address where the device is logged in, the factory default setting |
| | is 192.168.1.13. |
| Secondary Server | When the primary server fails to connect, the secondary server can be |
| | logged in. After the primary server can be connected, the terminal can log in |
| | again to the primary server, the factory default setting is 192.168.1.14. |
| Version Server | Version Server IP, When the terminal restarts, you can connect to the |
| | version server to automatically upgrade the program. |
| FTP Server | Set The IP of FTP server. |
| FTP User Name | The user name used for the login of FTP, factory default is admin. |
| FTP Password | The password used for the login of FTP, factory default is admin. |
| Login interval | Set time interval of login sever |

Audio Parameters

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





Parameters as following:

| Broadcast output volume | The total volume of audio input by the device during broadcasting, range: 0-15; |
|---------------------------------------|--|
| Buffer time | Set the broadcast playback buffer time (that is, how many seconds later to broadcast after the broadcast task is received), to ensure the broadcast output quality when the network environment is poor. |
| Loop detection | Enable: when the real-time noise of the device is less than or equal to the average noise, the server will pop up the window to display the fault information; Disable, loop detection is disable; |
| Dynamic volume adjustment | After enabling it , the device can automatically adjust broadcasting sound volume as per the noise level. For example: when nearby noise sound larger than referenced noise value, and larger than noise detection correction value, the device real time sound volume will be increased. And vice versa. When disable it, no this function. |
| WAN Audio Buffering | After enable WAN Audio buffering function which showed on above shootscreen picture, it will ensure audio quality under poor network environments. |
| WAN Audio Synchronization | After enable WAN Audio Synchronization function , it will ensure no postponement when receiving network broadcasts. However, if under very poor network environment , voice will occur discontinuities. Note: While Enabling WAN Audio Buffering, WAN Audio Synchronization will be turned off. |
| Noise monitoring and calibration (dB) | Set the noise detection calibration value (default is 16dB). The larger the value, the larger the detected real-time noise value. Note: Noise detection calibration value = noise dB of the decibel meter test when the calibration value is 0 - the average noise decibel value detected by the device. |
| Reference noise (dB) | Under normal situation, the average noise decibel value, the default is 60dB |
| Noise monitoring interval (S) | Set the average noise detection interval, the default is 30 seconds. Average noise varies according to set time. |



Multicast Setting

Set whether to enable multicast or not. Support up to 10 multicast addresses as maximum.

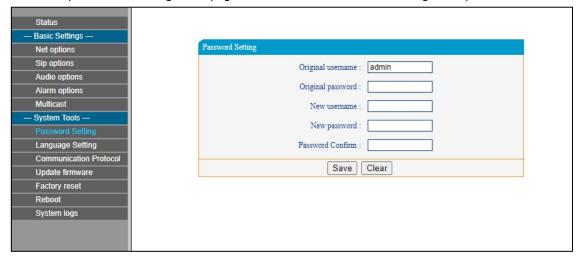


Parameters as following:

| Multicast Address | Set whether to enable multicast or not. In the case where there are multiple |
|-------------------|---|
| | servers in the LAN, different servers must fill in different addresses and port |
| | numbers when they initiate multicast broadcasts without interference. |
| | Support up to 10 multicast addresses as maximum and priority settings (priority |
| | from high to low is 1-10). |
| Prompt Tone | Set whether to enable the broadcast prompt tone or not. |

Password Settings

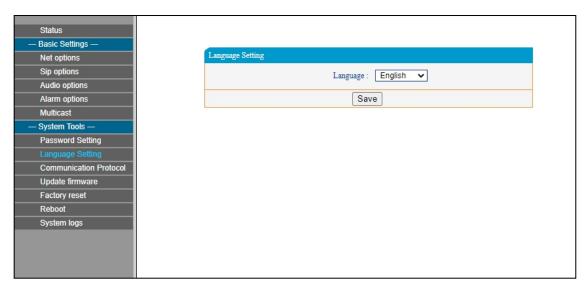
The account and password of the login web page can be modified in the WEB management parameters.



Language Settings

The language of the web page can be switched between Chinese and English



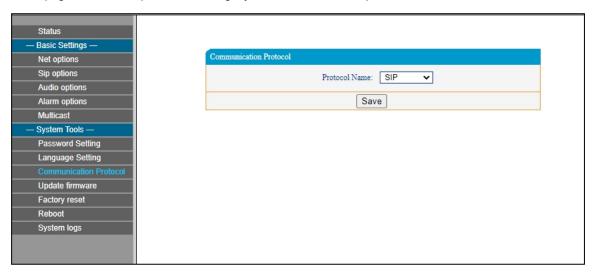


Protocol

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.



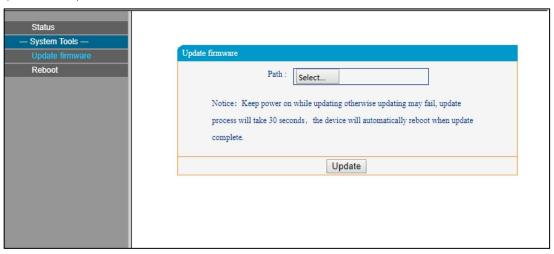
Firmware Upgrade

Click the "Upgrade" button, the device will enter into upgrade mode in 15s. (If the web shows an exception after entering upgrade mode, please clear the cache and login the web page again)





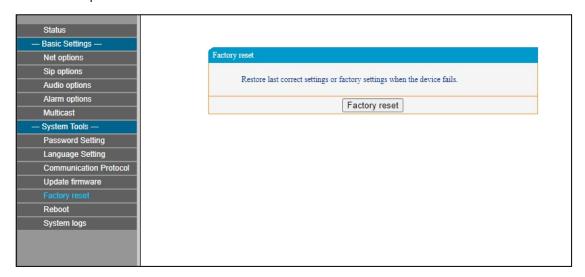
After entering into the firmware upgrade mode, select the firmware upgrade file provided by the manufacturer, then click the "upgrade" button to start upgrade. (Do not power off during the upgrade process, otherwise it may cause the upgrade failure and equipment failure)



Exit upgrade mode: If click the "upgrade" button by mistake, you can click the "reboot the device" button in the upgrade mode, then reboot the device to get back to normal mode.

Reset to Defaults

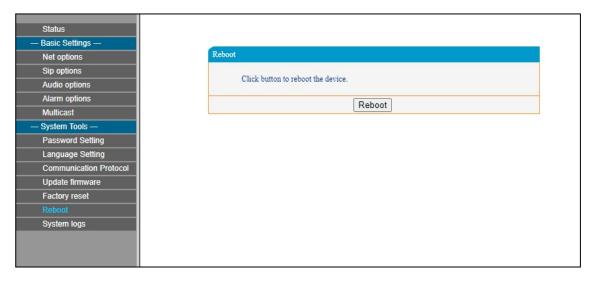
Reset to defaults: all parameters need to be reset to defaults.





Reboot Device

User can click "Reboot" to reboot the device.



Fault exclude

Why the terminal is still "offline"?

- 1). Check the software server and the main controller is normal opened or not. It's required to close all firewall before open the software server (including system built-in firewall and other antivirus software firewall).
- 2). Check the network connection is normal or not. After the terminal powered on, the network port green light is norm on, meantime the orange light will be short and fast flash, it means the network cable hard-connected normal. If the network port green light is not on, it means the network hard-connected problem, please check the terminal network cable and switcher whether they work normal, damaged and disconnect or not etc.
- 3). Check the terminal IP setting. Please check the terminal ID, sever IP, local IP, gateway IP ...etc parameters.

When web show abnormal?

Please clear the caches or change the browser.

How to change the web login account and password?

- 1 .Click the password setting in webpage .
- 2. Input the old account and old pass word.
- 3. Input the new account and new pass word.
- 4. Input the new password again for confirmation
- 5.Click save .

The new account and new password will be effective after reboot.

WWW.spon.com.cn

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