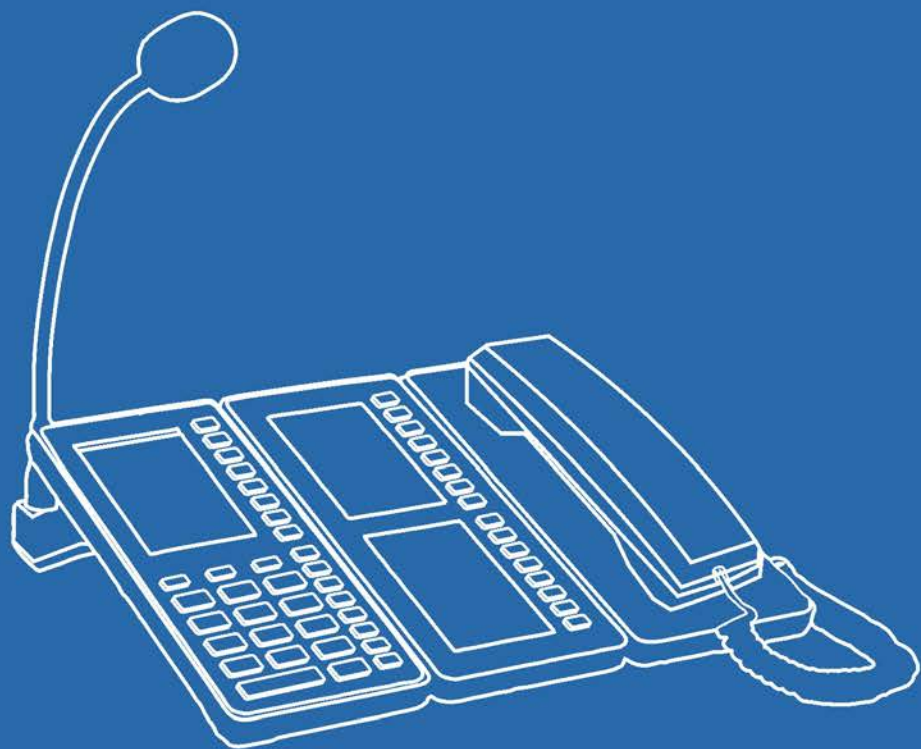


# ***SPON***

## IP NETWORK VIDEO MICROPHONE

### 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.

Simultaneousl, 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 ect)

(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 video paging microphone is embedded with IP Audio digital network audio technology which is in SPON own intellectual property, with power input interface, SD card interface, audio input and output interface, RJ45 network interface, built-in CMOS color camera.



- With 4.3" TFT True Color LCD, directly indicate the corresponding shortcut zones, the local device and the remote video information.
- With high speed industrial grade dicaryon processing chip.
- Built-in 3W power loudspeaker, large voice, small distortion; With detachable hose type microphone pole, longer life, good maintenance.
- Support for "incoming calls/ outgoing calls" which is showed in Chinese and English bilingual indication.
- Built-in high-capacity memory, used for save intercom recording file, broadcasting MP3 audio; And remote operate the memory file.
- To operate the device audio file within broadcasting, it can realize the voice remote playing.
- Automatically detect the audio input and output, it's good for audio circuit switching.
- 1 audio input and output interface, used for external linkage.
- With digital camera, it can make video call.
- It can select 16 keys expansion panel, using double TFT true color LCD to display the custom function, the intercom and broadcasting is rapidly.
- It can select the receiver, it's convenient for privacy communication.
- Compatible with the standard SIP protocol, it can access the SIP phone system.
- With Ethernet port access, support for across network segment and route.

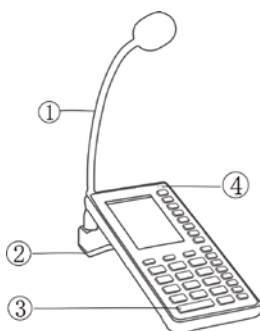
## Hardware Interface Introduction

### Front

1.IP network video microphone

2.Expansion panel (optional configuration)

3.Telephone receiver panel (optional configuration)



①Microphone pole

Collect the live voice

②Loudspeaker

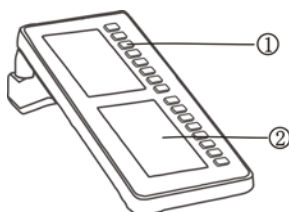
Built-in loudspeaker, restore the far-end and local voice.

③Keyboard

Mutual input channel, accept Command input.

④Camera

Collect the local video



①Key

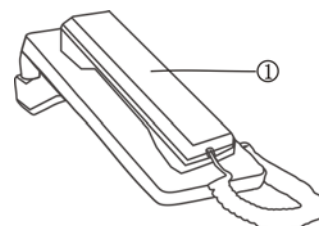
②Display screen: True color display screen indicate complete machine login status, volume value, partition list and other relevant information

**Expansion Board BLF Color Block function instruction :**

Red block: Busy (The SIP terminal is on the phone)

Flashing red block: Ringing (The SIP terminal is calling IP network video paging microphone.)

Green block : Intercom ( IP network video paging microphone is talking with the SIP terminal)

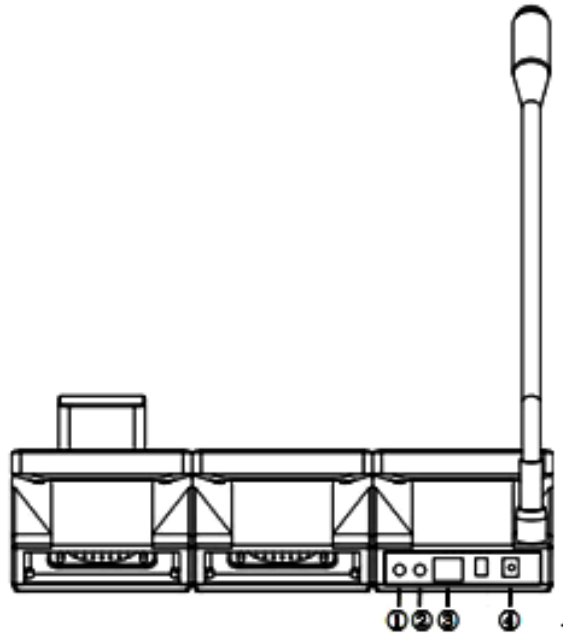


①Earphone

Built-in loudspeaker and microphone , restore the far-end and collect scene voice.

**IP Network Video Paging Microphone Operate Keyboard**

Key	Function Description
<b>Emergency Key</b>	Press Emergency Key on 1 second, it may broadcast to all zones.
<b>File Key</b>	Check the SD card file through this key, press the F1-F8, it will play the corresponding file by pressing the F1-F8 key.
<b>Information Key</b>	Check the terminal network parameters, system parameters and system software version information etc.
<b>Recording Key</b>	Reserved, it's not enabled at present.
<b>Monitor Key</b>	Press this key to enter into the monitoring status.
<b>Broadcast Key</b>	Press this key to enter into the broadcasting status.
<b>Volume + Key</b>	When it's playing the audio by pressing this key to increase the speaker volume.
<b>Volume - Key</b>	When it's playing the audio by pressing this key to decrease the speaker volume.
<b>Intercom Key</b>	Press this key to enter into the intercom status.
<b>Cancel Key</b>	Press this key to cancel the operation or back to the main interface.
<b>“◀” Key</b>	Press this key to realize the left page turning.
<b>“□” Key</b>	Confirmation Key
<b>“▶” Key</b>	Press this key to realize the right page turning.
<b>“■” Key</b>	The key is located on the expansion panel to match the double display screen,it can realize the shortcut intercom or broadcasting when pressing this key.
<b>“F1-F8”</b>	Press the corresponding key to enter into the shortcut key right corresponding function interface.
<b>“0-9”</b>	Used for the intercom and broadcasting zones selection.



①Audio input line interface

Used for connect the earphone or other 3.5mm audio plug.

②Audio output interface

The interface output is restored audio signal, it can used as the sound source to amplifier or active loudspeaker, used for broadcasting back background music, the factory setting is audio output.

③Ethernet interface

Connect with the server related cables in order to make the terminal login normally.

④Power input interface

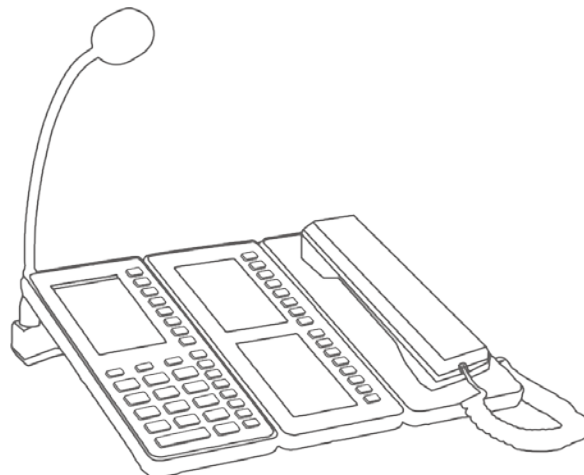
To provide 12V input voltage for the terminal.

## Introduction

### Packing list

IP Network video paging microphone is including the following fittings, please check the fittings before the installation, if any missing, please contact the distributor.

- (1) IP Network video paging microphone 1pcs

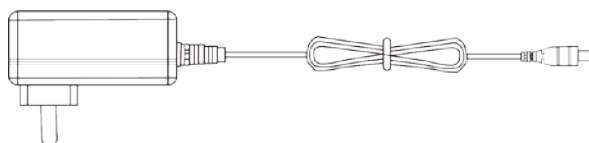


**Remark: expansion panel and receiver panel is optional configuration.**

(2) Microphone pole 1pcs



(3) Power adapter (DC12V/2A) 1pcs



(4) Installation instructions 1pcs

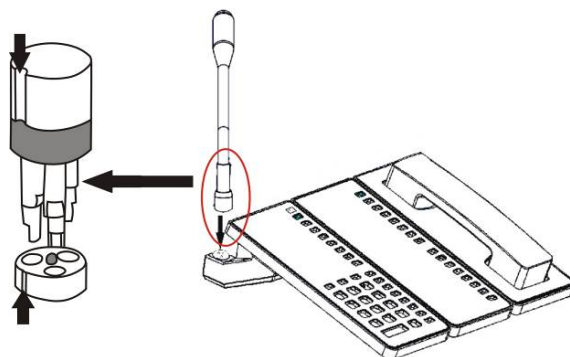


(5) Certification 1pcs

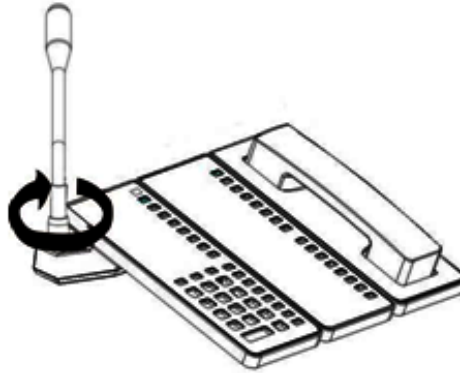


### IP Network video paging microphone installation

(1) Microphone pole groove install accordance with the pedestal raised groove, as follows:



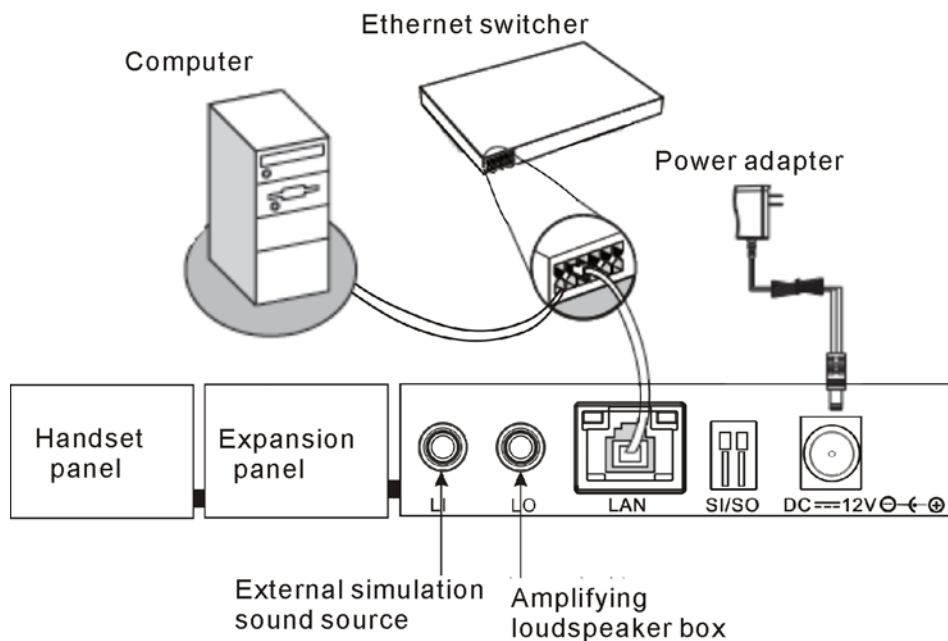
(2) Screwing the rotary knob tightly according to the graphic direction



**Remark:** expansion panel and receiver panel is optional configuration.

### Connect power and switcher

- (1) Make one port of the power adapter connect with the IP Network video paging microphone DC12V port, and the other Port connect with the power socket.
- (2) Make one port of the Ethernet line connect with the IP Network video paging microphone LAN port, and the other Port connect with the switcher.

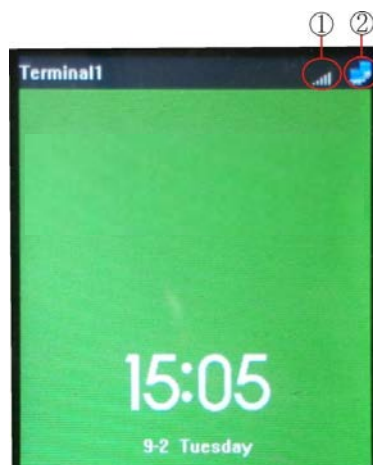


### Interface introduction

After the power on for 15 seconds to enter the main interface successful, it will display the time and date information.

#### Main interface





Main interface

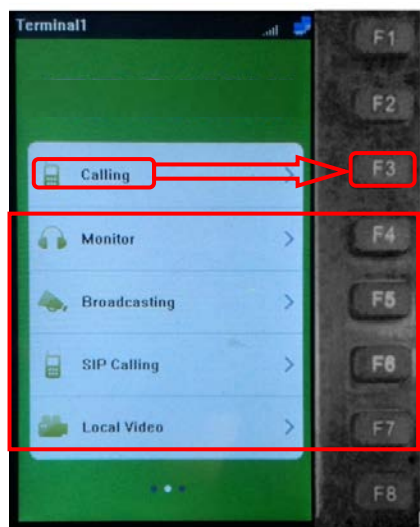
- ① IP network paging microphone output volume.
- ② Terminal status icon

Icon(color)	Terminal Status
Blue	Terminal login the server
Grey	Not login the server
	Cables is not properly connect

**Remark: the terminal status can be checked from the local device information.**

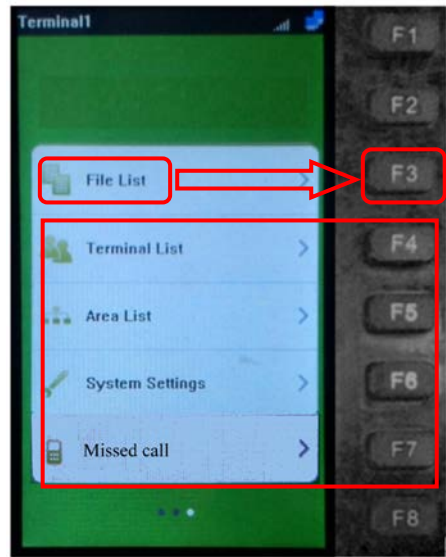
#### Function interface

Press the “▶” key in the main interface to make the right page turning and enter the function interface 1.



Function interface 1

Press the “initiate intercom” right corresponding shortcut key F3, it can enter the initiate intercom operating interface, and press other shortcut keys will enter the other corresponding operation interface. From the function interface 1 to repress the “▶” key and make the right page turning will enter the function interface 2.



Function interface 2

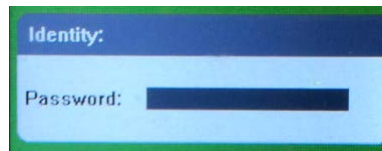
Press the function interface2 F3 key will enter the file list operation interface , and press others shortcut key will enter into the different operation interface. Press the function interface2“◀”key to turn left page will back to the function interface 1.

## Basic Network Settings

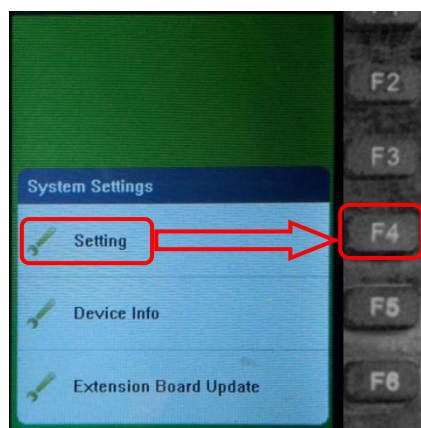
Connect the IP network video paging microphone terminal well as per the fast installation manual, plug in the power, press “information” key for network parameters checking, and modify the network parameters according to the using environment, there are three methods:

### Keyboard Operation

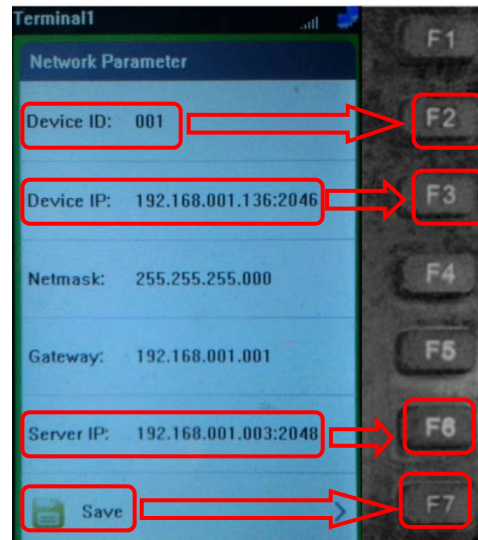
- (1) Press 【information】 key, input the terminal password 【123456】 enter the system setting interface.



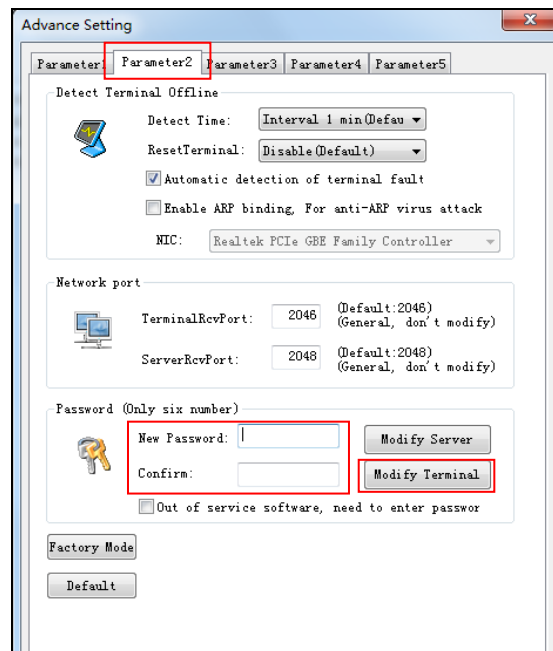
- (2) In the system setting interface, press terminal shortcut key F4 enter the network parameters setting interface.



- (3) Press key F2 to modify the device ID in the terminal setting, press key F3 to modify the device IP(Note: device ID and IP can not be same as other terminal or mainframe), press F6 to modify the server IP, press F7 for save.



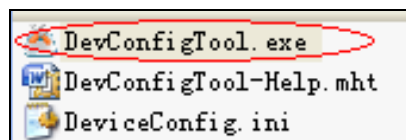
Remark: modify the password only can through the server, the detailed steps are: setting-advanced setting-input default password (default one is 123456)-parameter2-input new password-modify all terminal's password –OK (confirm).



If you choose to modify all terminal's password, then all the terminal's password in the same server will be modified to the same one.

### Terminal Devices Scanning Tool

(1) Under the menu of [optical disc:\tool software\ ] find "IP audio config tool" and run it, after starting, input the defaulted password"123456"



(2) Please select the [forcing configuration] from the right menu, then filling each correct parameters in the[terminal parameter]. It will be finished IP parameter configuration once pressed "sending parameter".

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)

**Remark: 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 when using this ways.**

### Webpage Mode

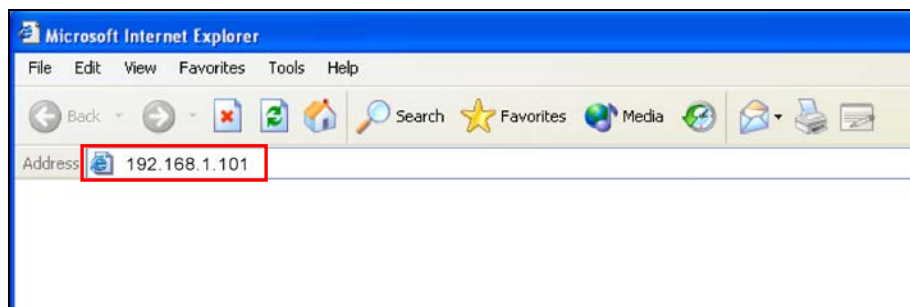
Enter into the IP Network video paging microphone web interface, then modify the terminal each parameters according to the environment, after setting completed, click "save".

Specific operation please refer to the custom terminal network parameters setting.

## Custom Terminal Parameters

### Login Web Interface

(1) Please input the IP Network video paging microphone IP address to the browser address column (the factory default IP address is 192.168.1.101), 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.

System Information	<div>System Information</div> <table> <tr><td>Terminal id:</td><td>1</td></tr> <tr><td>IP address:</td><td>192.168.1.101</td></tr> <tr><td>Subnet Mask:</td><td>255.255.255.0</td></tr> <tr><td>Gateway:</td><td>192.168.1.1</td></tr> <tr><td>DNS Server:</td><td>192.168.1.1</td></tr> <tr><td>MAC address:</td><td>00:E0:4C:EA:00:01</td></tr> </table>	Terminal id:	1	IP address:	192.168.1.101	Subnet Mask:	255.255.255.0	Gateway:	192.168.1.1	DNS Server:	192.168.1.1	MAC address:	00:E0:4C:EA:00:01
Terminal id:		1											
IP address:		192.168.1.101											
Subnet Mask:		255.255.255.0											
Gateway:		192.168.1.1											
DNS Server:		192.168.1.1											
MAC address:		00:E0:4C:EA:00:01											
--- Basic settings ---													
Net options													
Server options													
Video options													
SIP options													
Queueing													
Audio options													
Quick call													
Offline options													
Setting the clock													
Expend set													
ShortIn and ShortOut													
Priority of Talk or BC													
--- Professional settings ---													
WEB manage													
--- Device manage ---													
System tools													

## Network Parameters

System Information	<div>Net options</div> <table> <tr><td>Device ID:</td><td>1</td></tr> <tr><td>Terminal IP:</td><td>192.168.1.101</td><td>2046 (Default2046)</td></tr> <tr><td>Subnet Mask:</td><td>255.255.255.0</td></tr> <tr><td>Gateway:</td><td>192.168.1.1</td><td>(Chooseful)</td></tr> <tr><td>Primary DNS:</td><td>192.168.1.1</td><td>(Chooseful)</td></tr> <tr><td>Secondary DNS:</td><td>192.168.1.1</td><td>(Chooseful)</td></tr> <tr><td colspan="3"><div>Save</div></td></tr> </table>	Device ID:	1	Terminal IP:	192.168.1.101	2046 (Default2046)	Subnet Mask:	255.255.255.0	Gateway:	192.168.1.1	(Chooseful)	Primary DNS:	192.168.1.1	(Chooseful)	Secondary DNS:	192.168.1.1	(Chooseful)	<div>Save</div>		
Device ID:		1																		
Terminal IP:		192.168.1.101	2046 (Default2046)																	
Subnet Mask:		255.255.255.0																		
Gateway:		192.168.1.1	(Chooseful)																	
Primary DNS:		192.168.1.1	(Chooseful)																	
Secondary DNS:		192.168.1.1	(Chooseful)																	
<div>Save</div>																				
--- Basic settings ---																				
Net options																				
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ShortIn and ShortOut																				
Priority of Talk or BC																				
--- Professional settings ---																				
WEB manage																				
--- Device manage ---																				
System tools																				

Enter Network setting list, relevant parameters list:

Device NO.	The only number to identify mainframe, it can't repeat with other device or mainframe. the factory default device NO is 1
Terminal IP	Terminal IP address and port Note: It can't revise except with the special situation (The default is 2046) 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
Preferred DNS server	The preferred domain name interpreter IP of terminal
Alternate DNS server	The standby domain name interpreter IP of terminal

## Server Parameters

Only main service parameters could be modified among the service parameters, the other parameters are reserved.

**Note:** factory default main server address is 192.168.1.13, sub server address is 192.168.1.14.

## Video configuration

Video port: port of receiving video.

routing information: route mapping port

## SIP Parameters

- (1) Please fulfill the correct SIP server IP address.
- (2) Port can not be modified except the special circumstances.
- (3) Account number and password is registered from the SIP server, account number can not be same as the Other SIP phone number.

System Information	<div>SIP options</div> <div>SIP server: 192.168.1.16 : 5060 (Default5060)</div> <div>User Name: admin</div> <div>Password: admin</div> <div>Transport: 5060</div> <div>Audio port: 7080</div> <div>Video port: 9080</div> <div>Save</div>
--- Basic settings ---	
Net options	
Server options	
Video options	
SIP options	
Queueing	
Audio options	
Quick call	
Offline options	
Setting the clock	
Expend set	
ShortIn and ShortOut	
Priority of Talk or BC	
--- Professional settings ---	
WEB manage	
--- Device manage ---	
System tools	

## line up calling

Setting whether paging microphone allows multiple terminals incoming calls at the same time, the largest number can be set up to seven.

System Information	<div>Queueing Number</div> <div>Queueing: <input type="radio"/> Enable <input checked="" type="radio"/> Disable</div> <div>Queueing Number: 7</div> <div>Save</div>
--- Basic settings ---	
Net options	
Server options	
Video options	
SIP options	
Queueing	
Audio options	
Quick call	
Offline options	
Setting the clock	
Expend set	
ShortIn and ShortOut	
Priority of Talk or BC	
--- Professional settings ---	
WEB manage	
--- Device manage ---	
System tools	

## Audio parameters

The screenshot shows the 'Audio options' configuration page. The left sidebar contains a menu with the following items: System Information, --- Basic settings ---, Net options, Server options, Video options, SIP options, Queueing, **Audio options**, Quick call, Offline options, Setting the clock, Expend set, ShortIn and ShortOut, Priority of Talk or BC, --- Professional settings ---, WEB manage, --- Device manage ---, and System tools. The main content area is titled 'Audio options' and contains the following settings:

- Talking in volume: 3
- Talking out volume: 8
- Broadcasting in volume: 8
- Broadcast volume out: 12
- Volume ring: 13
- Input channel: ☒ Mic ☐ Line in
- Output channel: ☒ Speaker ☐ Line out
- Talking encode mode: ☒ PCM ☐ ADPCM
- Broadcast encode mode: ☒ PCM ☐ ADPCM
- PTT control method: ☒ click trigger ☐ press trigger ☐ Disable
- Conference talk: ☒ Enable ☐ Disable
- Broadcast alarm audio: ☒ Enable ☐ Disable

A red box highlights the volume and channel settings. A 'Save' button is located at the bottom right of the configuration area.

Intercom input volume	The total input volume of mainframe in intercom or monitoring (0~15, level 6 is 0dB)
Intercom output volume	The total output volume of mainframe in intercom or monitoring (0~15, level 6 is 0dB)
Broadcast input volume	The total input volume of mainframe in broadcasting (0~15, level 6 is 0dB)
Broadcast output volume	The total output volume of mainframe in broadcasting (0~15, level 6 is 0dB)
Ringing volume	The ringing volume of receiving the calls.
Input channel	Input audio source of terminal in the talking (microphone pole input/line input)
Output channel	Output audio source of terminal in the talking (loudspeaker output/line output)
Intercom coding format	Intercom coding, PCM means no data be compressed, ADPCM means packed data(low network data value)
Broadcast coding format	Broadcast coding format, PCM means no data be compressed, ADPCM means packed data(low network data value)
PTT control mode	The defaults as click trigger, and it can setting as press trigger. When it switch to press trigger, it will hear the voice only pressed the talking key.
The third parties talking	The third intercom function, When in the third parties talking, the third party directly input ID number and then press the OK button can be initiated the talking. During the process, the three parties can clearly hear the voice of the other two parties. If forbidden the three parties talking, it will hang up the current call if other call in or out.
Broadcast prompt tone	Initiating the voice prompt of the terminal automatically, it's default as enabled.

## Speedy dial

Directly press the numeric key + talk key on the main interface can initiate the intercom calling or SIP calling, the intercom type (intercom calling, SIP calling) can set the speedy dial from the web page, the default is intercom calling.



System Information

--- Basic settings ---

Net options

Server options

Video options

SIP options

Queueing

Audio options

**Quick call**

Offline options

Setting the clock

Expend set

ShortIn and ShortOut

Priority of Talk or BC

--- Professional settings ---

WEB manage

--- Device manage ---

System tools

Quick call

Quick call: ☒ Intercom ☐ SIP

Save

## Offline Parameters

- It can set the ID corresponding target terminal on the web page, press numeric key + intercom key in the offline status can call to the corresponding target terminal.
- Default port is 2046.

System Information

--- Basic settings ---

Net options

Server options

Video options

SIP options

Queueing

Audio options

Quick call

**Offline options**

Setting the clock

Expend set

ShortIn and ShortOut

Priority of Talk or BC

--- Professional settings ---

WEB manage

--- Device manage ---

System tools

Offline options-1

ID	IP	port
1		2046
2	192.168.1.22	2046
3		2046
4		2046
5	192.168.1.55	2046
6		2046
7		2046
8		2046
9		2046
10		2046
11		2046
12		2046
13		2046
14		2046
15		2046
16		2046

1 2 3 4

Save

## Setting the clock

Automatic Correcting Time: when enabled, automatically get time from the computer; when disabled, manual setting time.

### Expansion panel configuration ( It is available for optional configuration expansion panel)

Hot key	ID	Pickup Number	name	Function
F1:	1	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F2:	2	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F3:	3	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F4:	4	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F5:	5	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F6:	6	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F7:	7	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F8:	8	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F9:	9	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F10:	10	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F11:	11	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F12:	12	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F13:	13	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F14:	14	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F15:	15	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP
F16:	16	*08		<input checked="" type="radio"/> Talk <input type="radio"/> BC <input type="radio"/> Area BC <input type="radio"/> SIP

- It can define the shortcut key functions of the expansion panel on the web page, ID is the target terminal ID number.
- Checking expansion panel ID number: press the expansion panel top key to make IP network video paging microphone power on, it will display the ID number on the screen, press the expansion panel bottom key to exit the ID number display mode.
- Selecting the corresponding ID number in picture ①, click save and restarting.
- After the shortcut mode parameters is workable, press the shortcut key on the expansion panel can make the intercom calling or broadcasting to the corresponding target terminals (partition broadcast).
- When the extension board function choose SIP, then it can press the corresponding button to answer the other SIP calling (When it's answering the SIP calling, the extension board screen will display the SIP name).

**Remark: Please be sure that the numbers of picture ① must be same with the panel ID number.**

## Short circuit input and output

It can set the status before short circuit output be triggered on the web page (low level, high level).

Press the key “\*” on microphone will trigger the short circuit output during the SIP intercom.

System Information

--- Basic settings ---

Net options

Server options

Video options

SIP options

Queueing

Audio options

Quick call

Offline options

Setting the clock

Expend set

ShortIn and ShortOut

Priority of Talk or BC

--- Professional settings ---

WEB manage

--- Device manage ---

System tools

ShortIn and ShortOut

Local ShortOut: ☒ Low Lever ☐ High Lever

Term Shortout Trigger: 5

Time:

Save

## Priority of Talk or BC

If preferred choose intercom, press broadcast will cancel the broadcast.;If preferred choose broadcast, you can't stop broadcasting.

System Information

--- Basic settings ---

Net options

Server options

Video options

SIP options

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Audio options

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Offline options

Setting the clock

Expend set

ShortIn and ShortOut

Priority of Talk or BC

--- Professional settings ---

WEB manage

--- Device manage ---

System tools

Priority of Talk or BC

Priority of Talk or BC: ☐ Talk ☒ BC

Save

## Password Setting

You can revise the web page logging account and password from the WEB management parameters.

The screenshot shows the 'Web password settings' page. On the left is a navigation menu with categories: System Information, Basic settings, Professional settings, WEB manage, Device manage, and System tools. Under 'WEB manage', 'Password settings' is highlighted. The main content area has a blue header 'Web password settings' and a note: 'Change username and password this page, not length than 14 bytes.' Below this are five input fields: 'Old user:', 'Old key:', 'New user:', 'New key:', and 'Key confirm:'. A red rectangle highlights these five fields. At the bottom right are 'Save' and 'Cancel' buttons, with 'Save' also highlighted by a red rectangle.

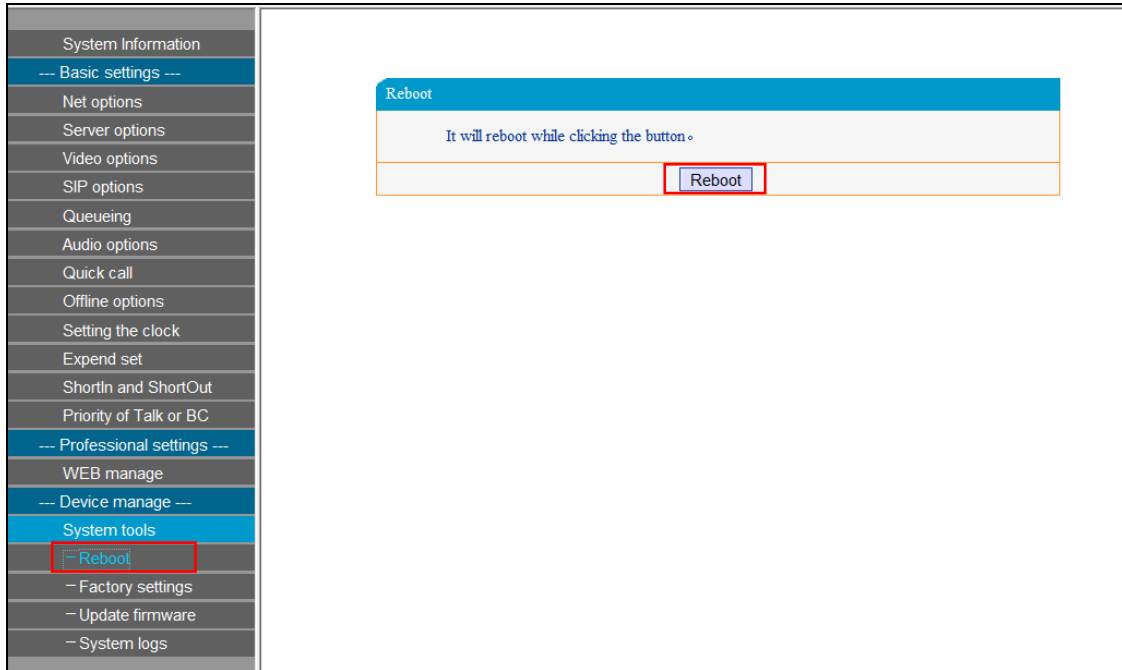
## Language Setting

You can switch Web language between Chinese and English, it will be workable after restarting the web page.

The screenshot shows the 'Language settings' page. The left navigation menu is the same as in the previous screenshot, but 'Language settings' under 'WEB manage' is highlighted. The main content area has a blue header 'Language settings' and a single dropdown menu labeled 'Language:' with 'English' selected. A red rectangle highlights the dropdown menu. At the bottom right is a 'Save' button, also highlighted by a red rectangle.

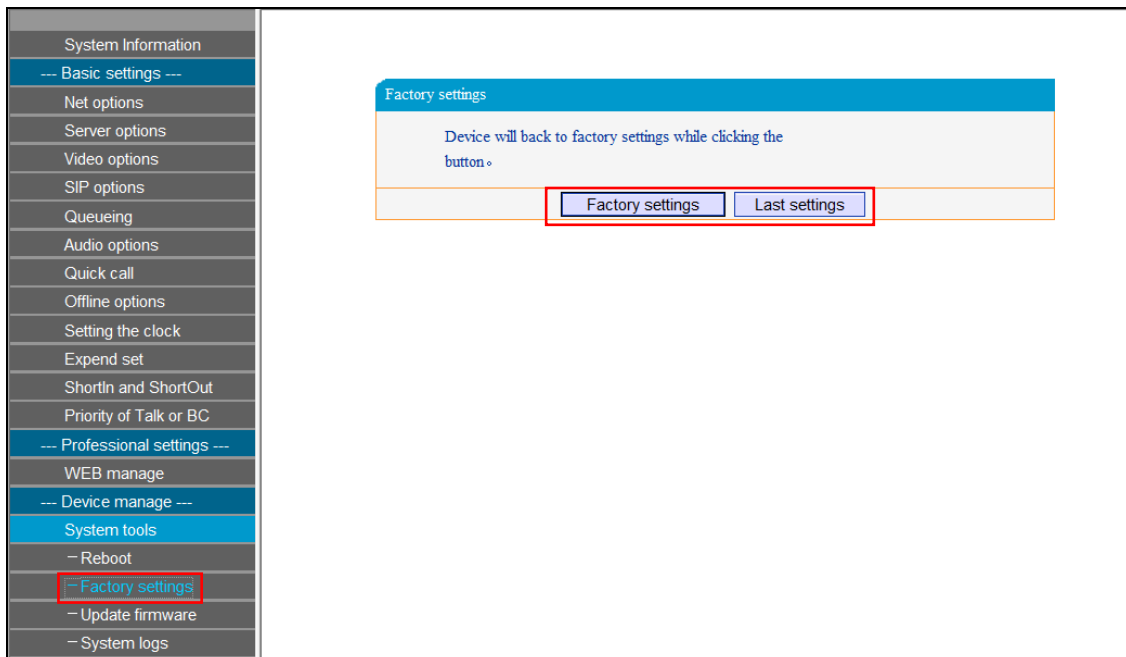
**Remark:** After restart the device, the Microphone LCD screen each interface language will be changed corresponding.

## Reboot



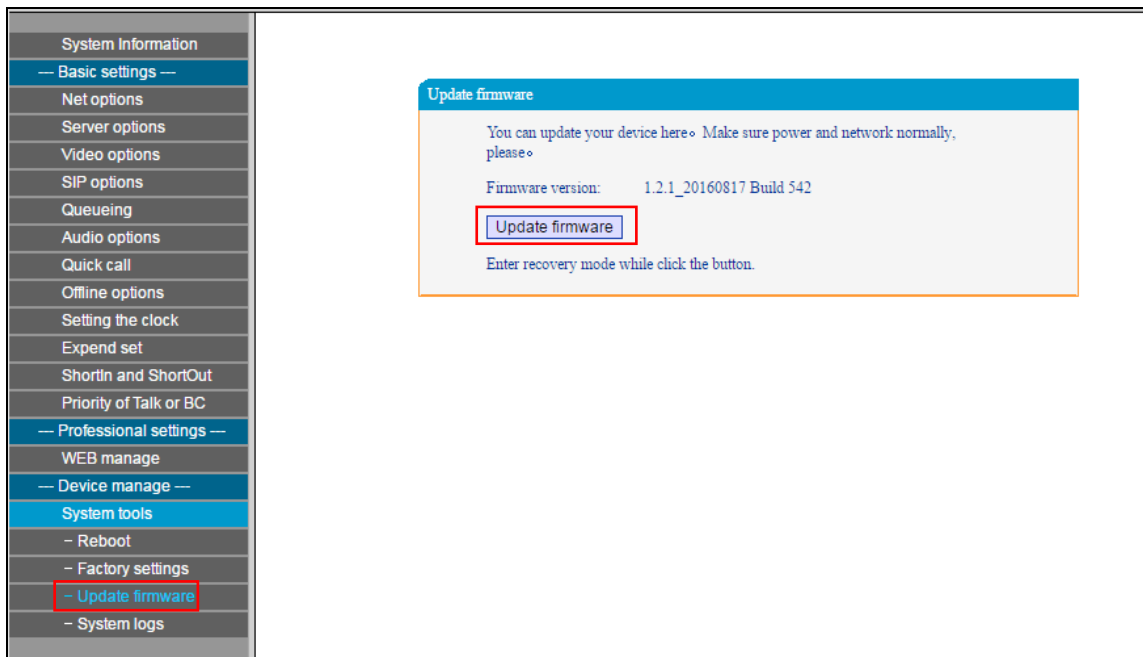
## Restore Factory Setting

- (1) The last time correct settings: it's recover to the last login server parameters.
- (2) Restore factory settings: all parameters were restored to factory setting.



## Update Firmware

Visit the terminal Web pages from Web browser, click the "device maintenance" - > "system tools" - > "firmware upgrade", click "firmware upgrade" button and wait for 20 seconds to enter the firmware update WEB page ,then choose the factory offered firmware update file , click "firmware upgrade" button to upgrade.



**Remark:** Please don't update the firmware except with the special situation.

## Other functions

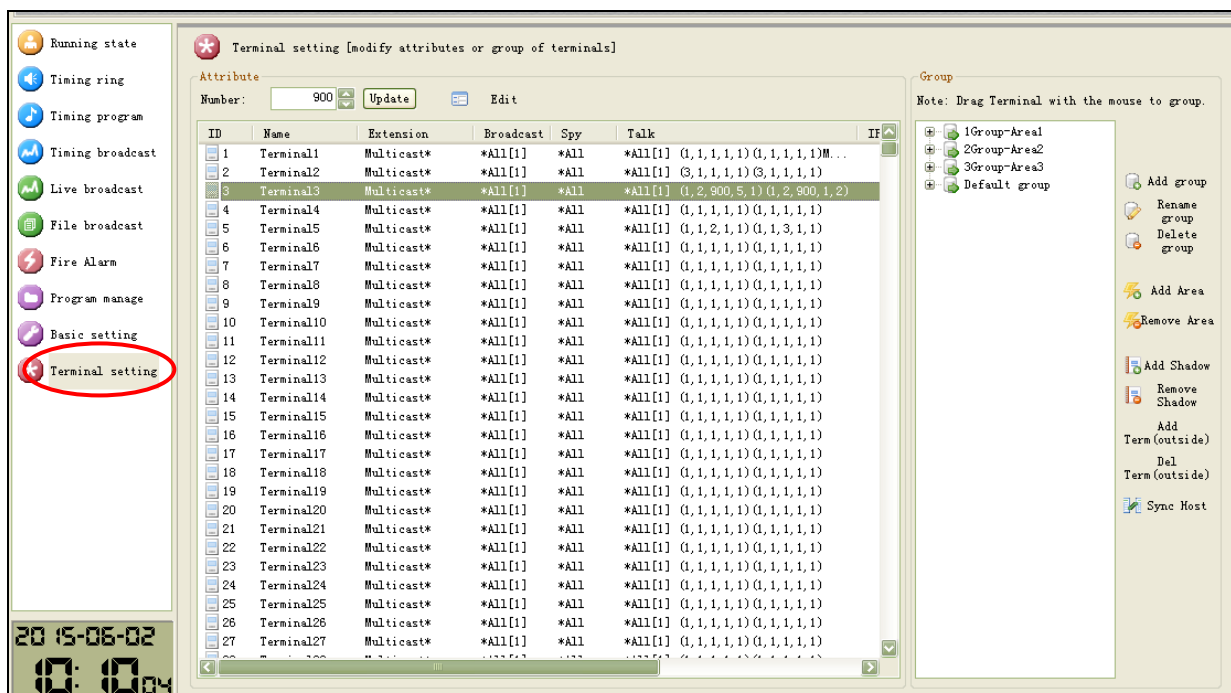
In addition to above function, IP Network video paging microphone could coordinate with the server to accomplish the timing ringing, real-time broadcasting and the timing broadcasting all these functions, for the details please refer to the server software operation instruction.

## System settings

Press the shortcut key into the system setting interface from optional interface2, enter password (default is 123456) into setting interface to set the terminal, checking the device information (press shortcut back key to exit), update the expansion panel program. System setting also can operate on the web page.

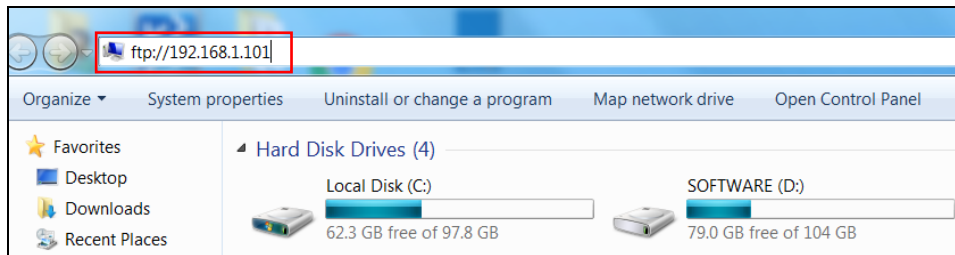
## The terminal list settings

It could user-defined the each terminal name and other information from the server terminal setting according to the situation, please refer to software operation instruction for details.

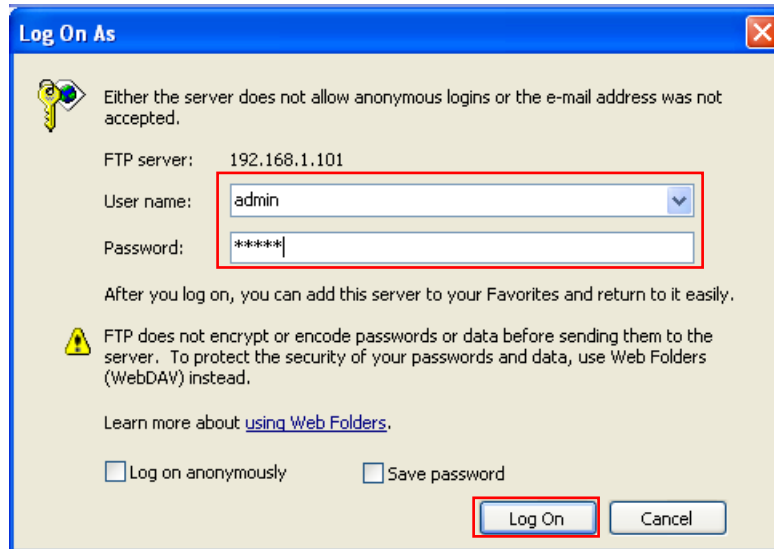


## FTP Operation ( audio file management )

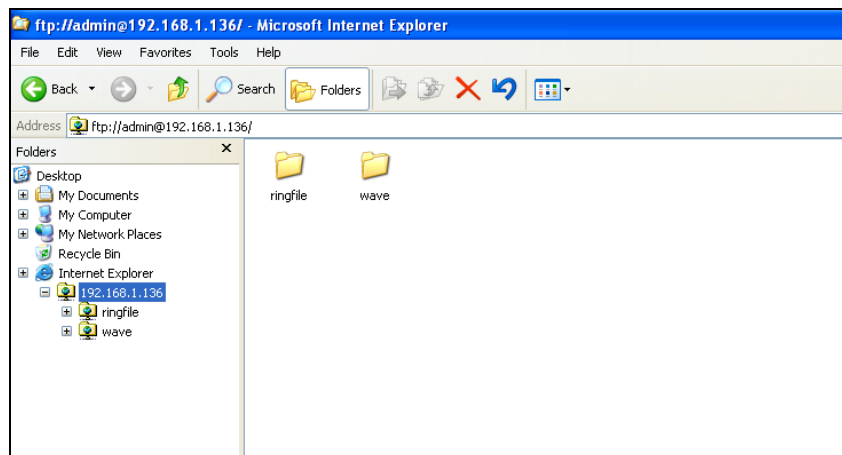
(1) Please enter the “ftp://terminal IP address (The factory default is 192.168.1.101)” in the browser, Then press the enter.



(2) Input user name and password (the default is admin) in appeared login window, press enter into FTP.



(3) Two files in the FTP: the audio documents in ring file is terminal prompt tone, the audio documents in wave file is the playing list contents.

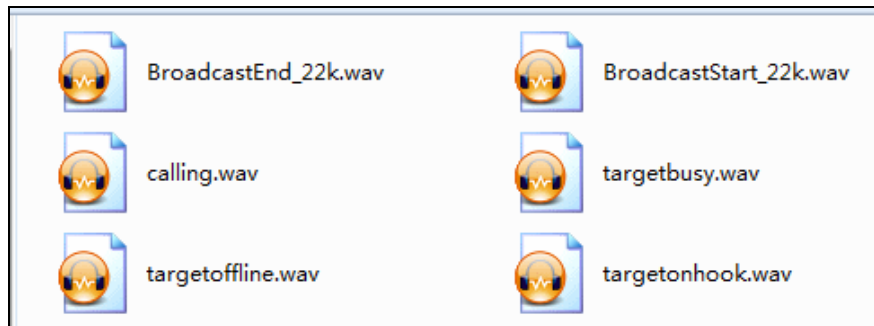


**Remark:** all the audio documents of FTP only support WAV mode, it can use the server build-in WAN program making tools to switch the audio documents.

(4) Customized ring:

① Customized prompt tone:

Copy the audio file to the ringfile folder, the file name is fixed as follows:



- Meaning:  
Broadcast End\_22k.wav:  
Broadcast Start\_22k.wav:  
calling.wav:  
Target busy.wav:  
Target offline.wav:  
Target on hook.wav:

## ②Customized ring tone

Make the converted ringing file (22K, WAV file) copy to ringfile folder.

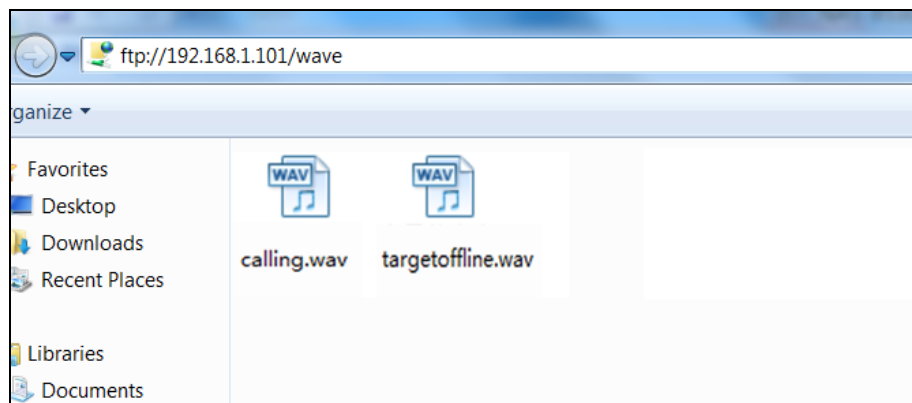
Ringing filename format: terminal number. wav

For example: terminal 1 is 001.wav, terminal 23 is 023.wav, 001.wav、002.wav means terminal 1 and terminal 2 respectively incoming ringing, others are same as it.

## (5)File play list

Make the converted audio file (22K, WAV file) copy to wave folder.

Press “file” on the IP network video paging microphone can use the uploaded files.



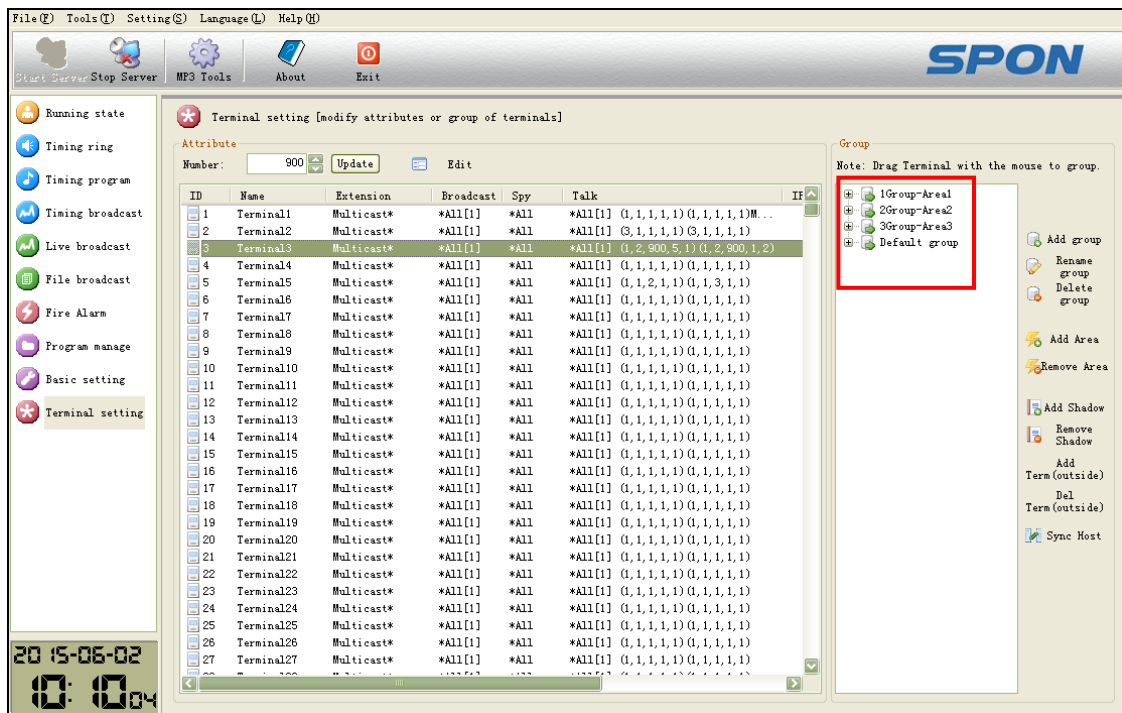
**Remark:** It's effective after using FTP upload the audio files and restart the device.

IP video paging microphone will give priority to the customized ring tones which are setting by FTP, if the FTP does not have any audio, please use the default audio of internal storage;

## Partition list setting

It could user-defined each zone name and other information according to the situation in the server terminal setting, please refer to the software server operation instruction for details.





## Basic function

### Intercom

#### Dialing

- 1) Firstly press the key 【intercom】 (or the corresponding shortcut key on option interface 1) enter the intercom interface.
- 2) Secondly press the key 【numbers】 input the target terminal ID number.
- 3) Finally press the key 【intercom】 or “starting intercom” shortcut key to talk with the target terminal.
- 4) Press the key 【cancel】 , exit the intercom status.

**Remark:** When the Web page the speedy dialing setting is internal communication, press the numbers key(input the target ID No.)+intercom key in the main interface can initiate intercom.

#### Terminal list

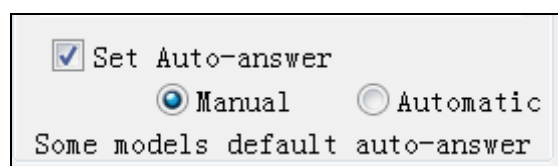
- 1) From the option interface 2 to press the shortcut key enter the terminal list interface, select the target terminal and press the right corresponding shortcut key, then press “starting intercom” key to intercom with the target terminal.
- 2) Terminal name, ID, numbers of terminal list is set by server and save it in advance, it no need to input the terminal ID when initiating the intercom, only need choose the target terminal from the terminal list.

#### Answering the talking

It can be set to automatic answering or manual answering in the server terminal attribute.

Please choose the "setting automatic answering", and select "automatic answering", press enter, it will automatic answering.

Please choose the "setting automatic answering" and select "manually answering", please press 【intercom】 to answering the call.



### Three parties intercom

Within intercom talking, press three parties can input ID number directly, then press OK key to initiate three parties intercom.

**Note:** Within the three parties intercom, three parties all could hear other two parties` voice clearly.

## Offline intercom

IP network paging microphone can dial the Web preset target terminal when it`s offline.

**Note:** The web page offline parameters is still effective after outage and restart.

## PTT intercom

Press 【intercom】 enter into PTT intercom mode within intercom, then microphone is closed, it`s listening status can`talk.

Press 【intercom】 again will recover to two-way intercom mode, then microphone is in opening status.

**Note:** SIP intercom is not suitable.

## Missed calls checking

It will display the missed calls on the interface directly, press the right side corresponding F2-F7 can call back to the opposite party, it also can press the “▶” twice in the main interface to checking the missed calls.

## Transferring

1)Press “transfer” corresponding shortcut key within intercom, press 【Number】 key to input the transfer target terminal ID number.

2)Press “transfer” shortcut key again, the intercom target will transfer to the preset target terminal automatically.

**Remark:** IP network video paging microphone can transmit and receive video synchronously during intercom.

## Broadcast

### Initiate broadcast

1)Firstly press 【broadcast】 key(or the corresponding shortcut key in option interface 1) enter into broadcast operation interface.

2)Secondly press the key to select the broadcast type(initiate terminal broadcasting in several zones or the whole zones broadcast)

3)Repress 【number】 key to input the broadcast terminal ID number or zone number.

4)Finally press 【broadcast】 or “starting broadcast” key to realize the broadcasting with the target terminal.

5) Press 【cancel】 button to exit the broadcasting status.

### Zone list

1)From the option interface2 to press the corresponding shortcut key , select the target terminal and press the right side shortcut key, press “starting broadcast” shortcut key again to broadcast to the target terminal.

2)Zone list is similar with the terminal list, the list name and quantity these information is set by server and save it.

### The whole zone broadcast

Press 【urgency】 key and lasting 1 second can initiate the whole zone broadcast.

## Offline broadcast

Keeping press【urgency】button can initiate the offline broadcast when the IP video paging Microphone disconnect with the server.

**Note:** offline broadcast can`t operate across the network segment.

## Monitoring

(1) Firstly press 【monitor】 (or corresponding shortcut key from the option interface 1) enter into monitor operation interface.

(2) Secondly press 【figure】 to input the ID number of monitored terminal.

(3) Finally press 【monitor】 or “starting monitor” to realize monitoring with the target.

(4) Press 【cancel】 to exit the monitor status.

**Note:** the microphone only can receive the monitored party video when it`s monitoring.

## SIP calling

1) Firstly press 【intercom】 (or the corresponding shortcut key from the option interface 1) enter into SIP intercom interface.

2) Input the SIP number of target terminal.

- It can input the SIP account number of target terminal if there is SIP server.
- If there is without SIP server, the microphones can make the SIP communication with each other, the target terminal input way is different , the specific format is: target terminal SIP account number @ target terminal IP address: the target terminal SIP server port.

(a) “@”、“.”、“:” Input way as follows:

Press the \* can input “@”

Press the # can input “.”

Press the F1 can input “:”

(b) If without the designate port it can omit, if with the designated port it must fill in.

(c) For example:

- The target terminal SIP account number is 956, IP address is 192.168.1.12, if without designate the port, input the target terminal is 956@192.168.1.12.
- The target terminal SIP account number is 958, IP address is 192.168.1.18, the designated port is 5048, input the target terminal is 956@192.168.1.12:5048

Secondly press 【intercom】 could realize the SIP communication with the target.

(3) Press 【cancel】 to exit intercom status and back to the main interface.

**Note: When the web page speedy dialing setting is SIP, press the numbers key(input the target SIP number)+intercom key could initiate SIP intercom. IP network video paging microphone could transmit and receive video synchronously during SIP calling.**

## Video checking

### Local video checking

Press the corresponding shortcut key from the option interface 1 can check the local video.

### Checking the separate terminal panel video

In the process of intercom with the separate IP network video intercom terminal, press numbers key 1-8 can checking NO.1-8 panels video respectively, press the key“\*” can check the separate terminal external camera video.

## File playing

- (1) Press file key (or the corresponding shortcut key from the option interface 2) enter into file playing list.
- (2) Then press the right side corresponding shortcut key to play song.
- (3) Finally press the cancel key to finish the the song playing.
- (4) Through the FTP server to manage the content of intercom file playing list.

## Trouble Removal

### Terminal can not login the server?

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.)

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.

Check the terminal IP setting. Checking the terminal ID NO, server IP, local IP and gateway IP these parameters is correct or not.

### Terminal can not login to the server, intercom and broadcast is not normal?

- 1、Check the bandwidth is limited or not (use the network bandwidth tools to test it), it should broaden the bandwidth if it's limited.
- 2、Detected a lot of data flow of bandwidth, please restrict this IP address.
- 3、Checking the ID number and host IP address is conflict or not, please reset the ID number or host IP address if it's conflict.
- 4、If ID number and IP address is not conflict, but it can not make normal conversation, please acquire the data package and submit to the factory for analyzing.

### How to solve the warning of “ terminal network service (UDP)” failed during the process of the starting the service software?

Server local network connection is disconnected, connect the local network cable, exit the service software and Restart, it will be ok.

### Can not initiate the SIP calling?

Please confirm the host is registered to the SIP server or not, it can check from host information.

### Can not be transferred?

1. Target terminal is not login the server.
2. Target terminal is not support for transfer function.

### 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.

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