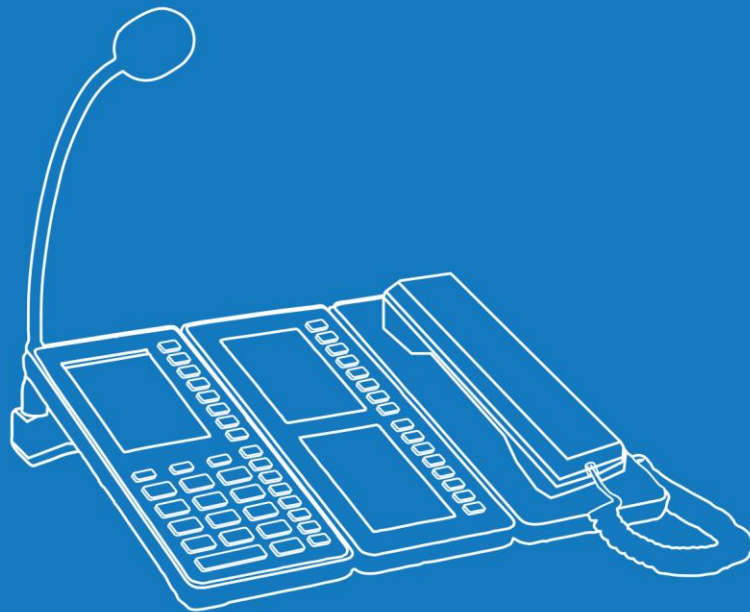


SPON

IP PAGING 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 paging microphone is embedded with IP Audio digital network audio technology which is in our company own intellectual property, with power input interface, SD card interface, audio input and output interface, RJ45 network interface.

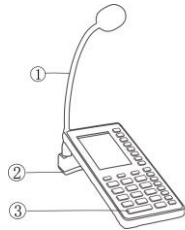


- With 4.3" TFT True Color LCD, directly indicate the corresponding shortcut zones.
- With high speed industrial grade dicaryon ((ARM + Dual DSP) processing chip, start time ≤ 3 seconds
- Built-in 3W power loudspeaker, large voice, small distortion; With detachable hose type microphone pole, longer life, 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.
- With selection menu for hang the call to switch the intercom mode during talking.
- Automatically detect the audio input and output, it`s good for audio circuit switching.
- 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.
- With Ethernet port access, support for across network segment and route.

Hardware Interface Introduction

Front

1.IP network paging microphone



① Microphone pole

Collect the live voice

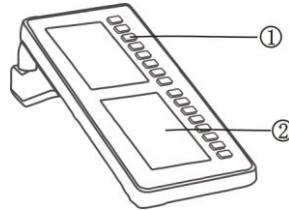
② Loudspeaker

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

③ Keyboard

Mutual input channel, accept Command input.

2.Expansion panel (optional configuration)

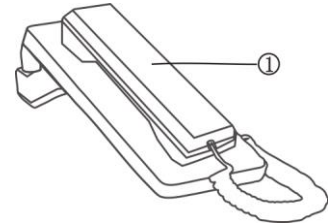


① Key

② Display screen

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

3. Telephone receiver panel (optional configuration)

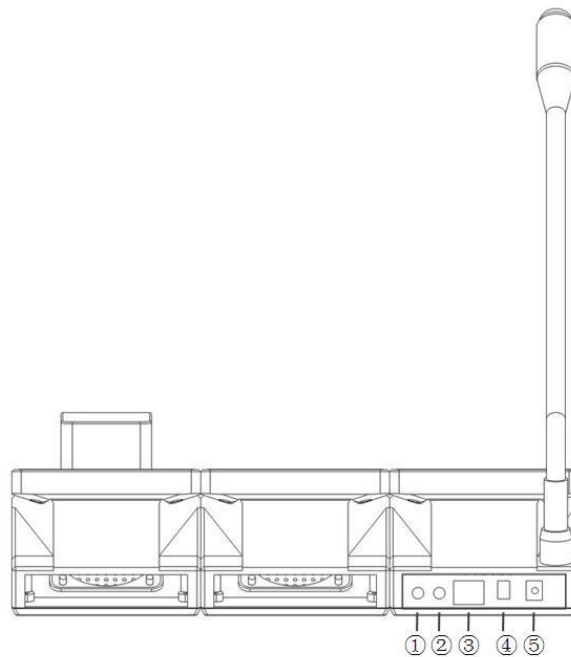


① Earphone

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

Keyboard Operation

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

[Back](#)

① Audio input interface

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

② Audio 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.

③ Ethernet interface

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

④ Alarm input or output interface

With alarm input and output port for linkage with external device, factory defaults as alarm output.

⑤ Power input interface

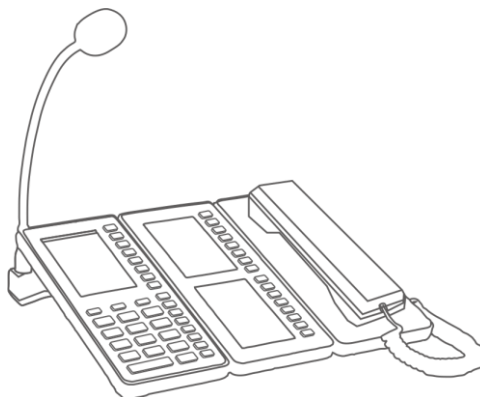
To provide 12V input voltage for the terminal

Introduction

Packing list

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

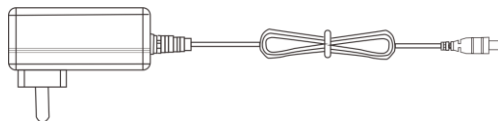
- (1) IP Paging Microphone 1pcs (**Remark: expansion panel and receiver panel is optional configuration.**)



- (2) Microphone pole (DC-300B) 1pcs



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



- (4) Certification 1pcs

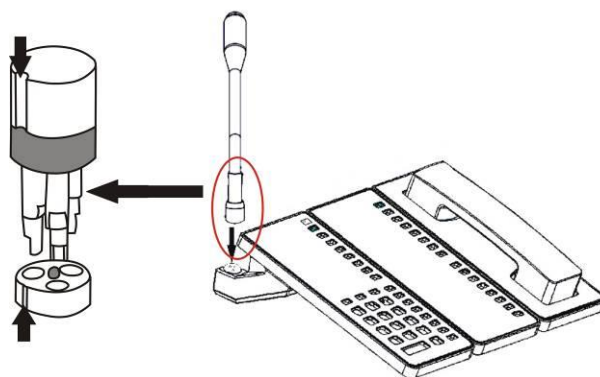


- (5) Installation instructions 1pcs

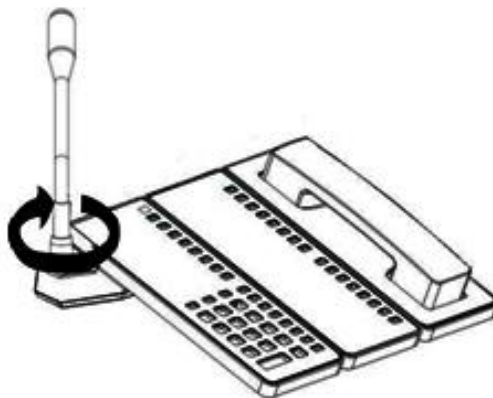


Installation

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



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

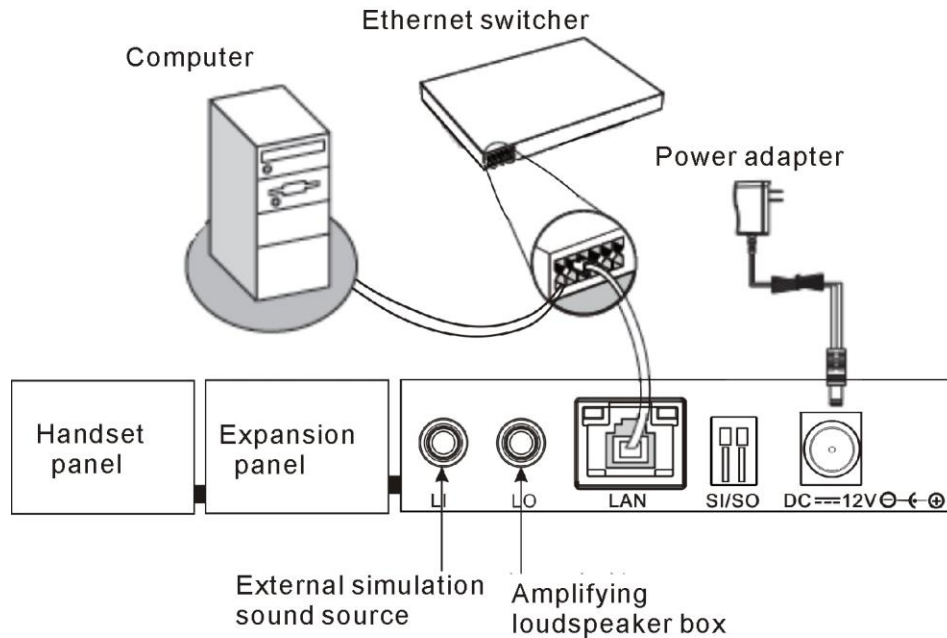


Remark: expansion panel and receiver panel is optional.

Wiring

(1) Make one port of the power adapter connect with the IP Paging Microphone DC12V port, and the other Port connect with the power socket.

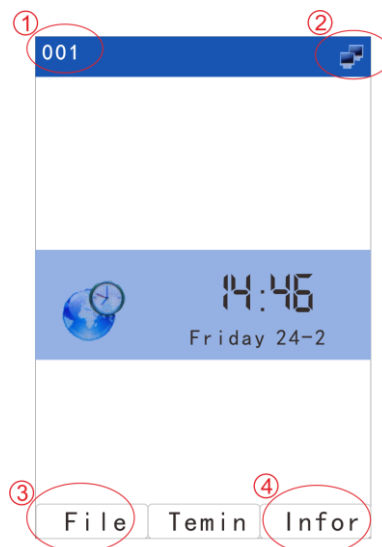
(2) Make one port of the Ethernet line connect with the IP Paging Microphone LAN port, and the other port connect with the switcher.



Interface Description


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

Main interface



① IP paging microphone ID

② Terminal status icon

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

③ File: Display audio file list

Press “◀” or 【File】 key to enter the list of file broadcasting. Press the corresponding shortcut key to the right of the

music to play the audio file. Press "cancel" key to end the music.

Remark: The contents of the file playlist can be set via the FTP server.

④Information: Display terminal parameters information. Press "▶" or 【info】 key, enter password 【123456】 and login into the system setting interface.

Basic Network Settings

Connect the IP paging microphone terminal well as per the installation manual, plug in the power, press "info" key for network parameters checking, and modify the network parameters according to the using environment, there are two methods:

Keyboard Operation

(1) Press ▶ or 【info】 key, input the terminal password 【123456】 enter the system setting interface. Press ◀, ▶ key to move, press numeric keys to modify equipment ID, IP address, server IP and other parameters, then press □ button to save. (Note: ID and IP can not be same as other terminal or mainframe.)

Information

Enter "http://192.168.001.101"
to set parameter.

Enter "ftp://192.168.001.101"
to manage file.

Fireware : Firmware[2.4]_160316
BIOS : BootLdr[3.0]_140930

Talk Rate : 8K
Talk ADPCM : Off
Talk Echo : On
BCT Rate : 22K
BCT ADPCM : Off
BCT Tone : On

ID : 001
IP : 192.168.001.101
Mask : 255.255.255.000
Gateway : 192.168.001.001
Server1 IP : 192.168.001.013
Server2 IP : 192.168.001.014

Previ Save Next

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).

Advance Setting

Parameter1 Parameter2 Parameter3 Parameter4 Parameter5

Detect Terminal Offline

Detect Time: Interval 10 min
ResetTerminal: Disable(Default)
☐ Automatic detection of terminal fault (limited to some)
☐ Enable ARP binding, For anti-ARP virus attack
NIC: Realtek PCIe GBE Family Controller

Network port

TerminalRcvPort: 2046 (Default 2046) (General, don't modify)
ServerRcvPort: 2048 (Default 2048) (General, don't modify)
Record Server IP and Port: 2050

Password (Only six number)

New Password:
Confirm:
☐ Out of service software, need to enter password

Modify Server
Modify Terminal

Factory Mode
Default

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.

Web Page Mode

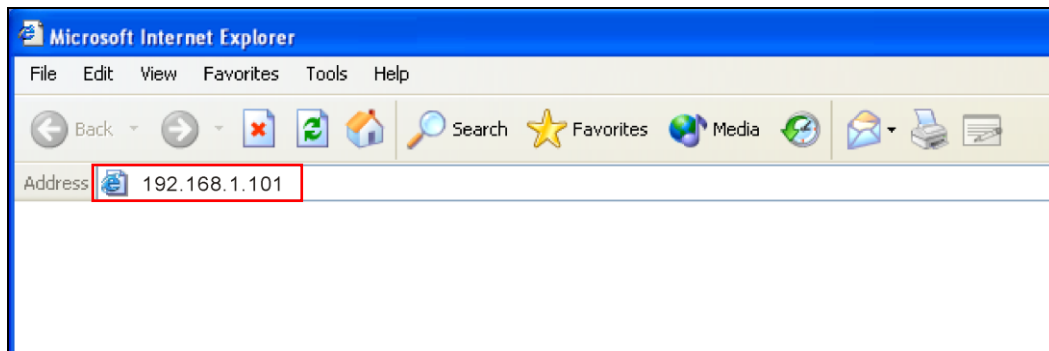
Enter into the IP Paging Microphone web interface, then modify the terminal each parameters according to the environment, after setting completed, click "save".

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

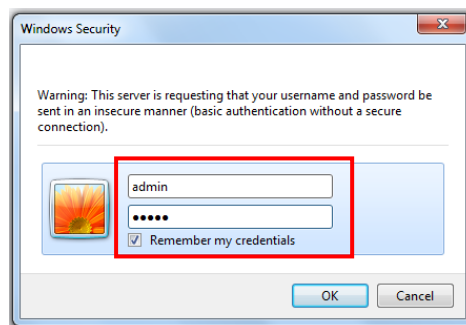
User-Define Terminal Parameters

Login WEB interface

- (1) Please input the IP 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 is : admin, password : Rdc070#*) .



- (3) Click OK to enter terminal web page.

Network Parameters

<ul style="list-style-type: none"> — Basic Setting — Network Param System Param Shortcut Func — Advance Setting — Web Config Reboot Device Factory Settings Update 	<h3>Network Param Config</h3> <p>ID Number : <input type="text" value="1"/></p> <p>IP Address: <input type="text" value="192.168.1.101"/> Port: <input type="text" value="2046"/></p> <p>Mask : <input type="text" value="255.255.255.0"/></p> <p>GateWay : <input type="text" value="192.168.1.1"/></p> <p>Preferred Server IP: <input type="text" value="192.168.1.13"/> Port: <input type="text" value="2048"/></p> <p>Standby Server IP: <input type="text" value="192.168.1.14"/> Port: <input type="text" value="2048"/></p> <p>Login Server Type: <input type="text" value="UDP"/></p> <p><input type="button" value="Save"/></p>
---	--

Enter Network settings, relevant parameters list:

Device ID	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, the factory default IP address is 192.168.1.101 Note: It can't revise except with the special situation (The default is 2046)
Subnet mask	The subnet mask of the terminal
Default gateway	The network gateway of the terminal
Preferred server IP	Set the IP address of preferred server, the factory defaults is 192.168.1.13 The server is a bridge to communicate with other devices, and has the right to control devices, VOD, and broadcast, etc.
Alternate server IP	Se the IP address of Preferred server, the factory defaults is 192.168.1.14
Login server mode	The device can log onto the server in either UDP or TCP. If the corresponding server supports both UDP and TCP communication, UDP is used by default.

Server Parameters

<div> <div>--- Basic Setting ---</div> <div>Network Param</div> <div>System Param</div> <div>Shortcut Func</div> <div>--- Advance Setting ---</div> <div>Web Config</div> <div>Reboot Device</div> <div>Factory Settings</div> <div>Update</div> </div>	<div>System Config</div> <div> <div>Talk In Volume: 7 ▾</div> <div>Talk Out Volume: 12 ▾</div> <div>Talk Samplerate: 8K ▾</div> <div>Talk ADPCM: OFF ▾</div> <div>Talk Echo : ON ▾</div> </div> <div> <div>Broadcast In Volume: 9 ▾</div> <div>Broadcast Out Volume: 12 ▾</div> <div>Broadcast Samplerate: 22K ▾</div> <div>Broadcast ADPCM: OFF ▾</div> <div>Broadcast Tone: ON ▾</div> </div> <div> <div>Ring Volume: 9 ▾</div> <div>Ring Out Mode: Speaker ▾</div> <div>Query Terminal ID: 1</div> <div>Terminal Counts: 32</div> <div>Language: English ▾</div> <div>Terminal Password: 123456</div> </div> <div>Save</div>
---	---

Enter the settings of "system parameters" and the corresponding parameters list.

Intercom input volume	Terminal volume adjustment, range 0~15
Intercom output volume	Terminal volume adjustment, range 0~15
Intercom sampling rate	Set intercom sampling rate, 8K or 22K for optional, the defaults is 8K.
Intercom ADPCM coding	Set whether intercom ADPCM encoding is enabled

Echo cancellation	It's enable by default, it will have echo when it's disable
The third parties talking function	Set the third party talking function, the defaults is enable.
Broadcast input volume	Terminal volume adjustment, range 0~15
Broadcast output volume	Terminal volume adjustment, range 0~15
Broadcast sampling rate	Set broadcast sampling rate, 8K or 22K for optional, the defaults is 22K.
Broadcast ADPCM coding	Set whether intercom ADPCM encoding is enabled
Broadcast prompt tone	Set the broadcast prompt tone, the defaults is enable.
File broadcasting	Auto-pause: in the process of initiating audio file broadcasting to other terminals, a music will stop automatically after playing. Loop play: in the process of initiating audio file broadcast to other terminals, a music will be played repeatedly after playing.
Ringing volume	Terminal volume adjustment, range 0~15
Ringing output mode	Set ringing output mode of the terminal, horn or line output can be choose
Query original ID	Set the terminal query original ID number
Number of queries	Set the number of terminal queries
Terminal language	Set the language of the terminal WEB page, Chinese or English can be choose, it's default as Chinese.
Intercom password settings	Set the password to enter the Settings menu

Shortcut Function

Customize the terminal ID number or partition number corresponding to the key on the main interface and extension board in the shortcut function list. (Please enter " ID#terminal number", when setting shortcut calling to terminal). Select the function to intercom, broadcast or partition broadcast (default is intercom), then click " Save" after setting.

After the shortcut mode parameters is workable, press **【F1】 - 【F8】** key on the main interface or the 16 the shortcut key on the expansion panel can make the intercom calling or broadcasting to the corresponding target terminals.

Shortcut Config		
Key-F	Primary Mic	Ext Panel 1
F1:	<input type="text" value="2"/>	<input type="text" value="13"/>
F2:	<input type="text" value="3"/>	<input type="text" value="3"/>
F3:	<input type="text" value="10"/>	<input type="text" value="10"/>
F4:	<input type="text" value="13"/>	<input type="text" value="13"/>
F5:	<input type="text" value="6"/>	<input type="text" value="13"/>
F6:	<input type="text" value="7"/>	<input type="text" value="14"/>
F7:	<input type="text" value="8"/>	<input type="text" value="15"/>
F8:	<input type="text" value="9"/>	<input type="text" value="16"/>
F9:		<input type="text" value="17"/>
F10:		<input type="text" value="18"/>
F11:		<input type="text" value="19"/>
F12:		<input type="text" value="20"/>
F13:		<input type="text" value="21"/>
F14:		<input type="text" value="22"/>
F15:		<input type="text" value="23"/>
F16:		<input type="text" value="24"/>
	<input type="text" value="Broadcast"/>	<input type="text" value="Talk"/>

Offline Intercom

- Ensure all offline call terminals are logged in to the service software.
- Set shortcut call button: Select the function to intercom on the web page of IP paging microphone, and configure terminal number of offline intercom to the shortcut call button. (Offline call number is decided by the number of shortcuts.)

Below is set to terminal 8 to shortcut F1, terminal 5 to shortcut key F2, terminal 3 to shortcut key F3, terminal 6 to shortcut key F4:

<ul style="list-style-type: none"> --- Basic Setting --- Network Param System Param Shortcut Func --- Advance Setting --- Web Config Reboot Device Factory Settings Update 	Shortcut Config	
	Key-F	Primary Mic
	F1:	<input type="text" value="2"/>
	F2:	<input type="text" value="3"/>
	F3:	<input type="text" value="10"/>
	F4:	<input type="text" value="13"/>
	F5:	<input type="text" value="6"/>
	F6:	<input type="text" value="7"/>
	F7:	<input type="text" value="8"/>
	F8:	<input type="text" value="9"/>
	F9:	
	F10:	
	F11:	
	F12:	
	F13:	
	F14:	
	F15:	
	F16:	
<input type="button" value="Talk"/> ▼		
<input type="button" value="Save"/>		

- Enter the settings interface of IP paging microphone, and then click "Save".
- Completed settings. After close the server software, it could call offline terminal normally without the affect of restart.

WEB management

You can modify the web page login account and password from the WEB management parameters.

<ul style="list-style-type: none"> --- Basic Setting --- Network Param System Param Shortcut Func --- Advance Setting --- Web Config Reboot Device Factory Settings Update 	Web Password Set	
	Original User Name	<input type="text" value="admin"/>
	Original Password	<input type="text"/>
	New Password	<input type="text"/>
	Confirm	<input type="text"/>
	<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Reboot

<ul style="list-style-type: none"> — Basic Setting — Network Param System Param Shortcut Func — Advance Setting — Web Config Reboot Device Factory Settings Update 	<h3>Reboot</h3> <p>Device will reboot while clicking this button.</p> <p><input type="button" value="Reboot"/></p>
---	--

All modified parameters of web pages will be effective after rebooting.

Reset to Defaults

Click the "Factory Settings" and all parameters will return to factory defaults.

<ul style="list-style-type: none"> — Basic Setting — Network Param System Param Shortcut Func — Advance Setting — Web Config Reboot Device Factory Settings Update 	<h3>Factory Settings</h3> <p>Device will return to factory settings while clicking this button.</p> <p><input type="button" value="Factory Settings"/></p>
---	--

Update Firmware (Note:otherwise special needs, please do not update the firmware)

Visit the terminal Web pages from Web browser, click "firmware upgrade" key and wait for 20 seconds to enter the firmware update WEB page ,then choose the factory offered firmware update file , click "firmware upgrade" key to upgrade.

<ul style="list-style-type: none"> — Basic Setting — Network Param System Param Shortcut Func — Advance Setting — Web Config Reboot Device Factory Settings Update 	<h3>Firmware Update</h3> <p>Firmware Version: Firmware[2.4]_160316 BIOS Version: BootLdr[3.0]_140930</p> <p><input type="button" value="Enter Update Mode"/></p>
---	--

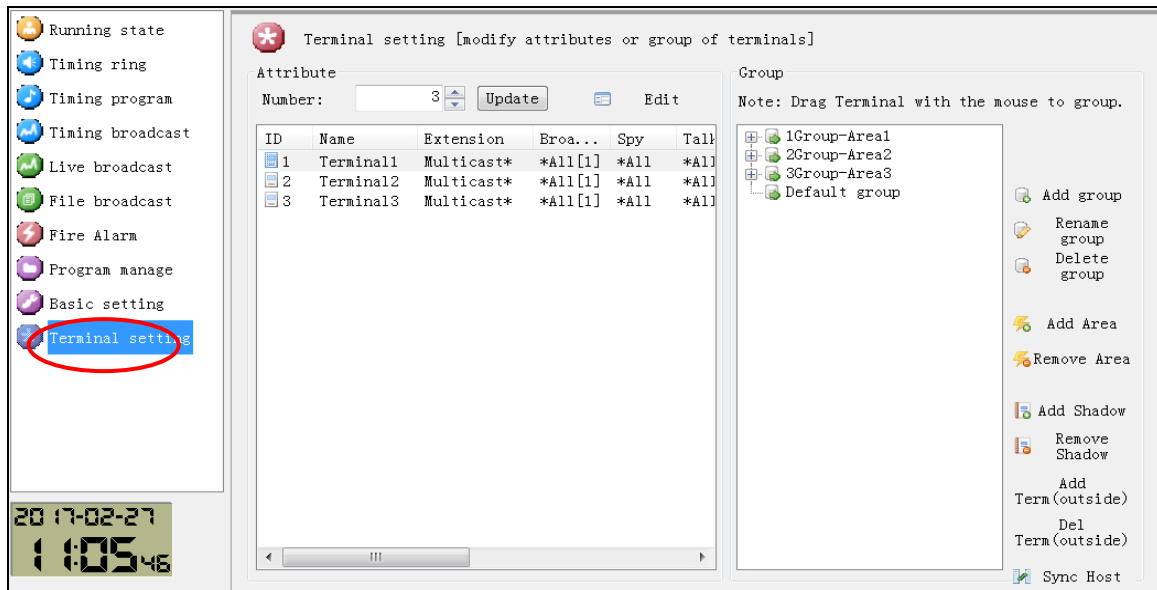
Note: if you need to upgrade the firmware, please contact the dealer.

Other functions

In addition to above function, IP 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.

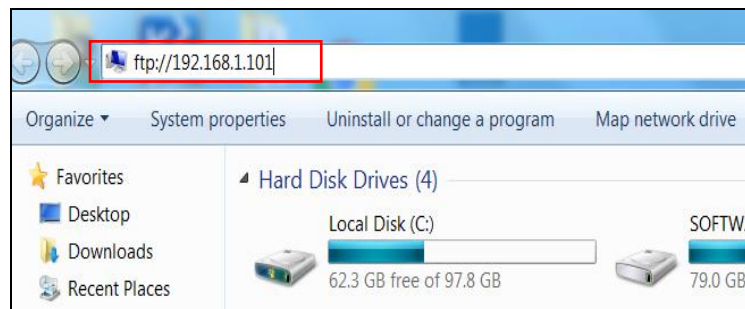
Terminal List Settings

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.

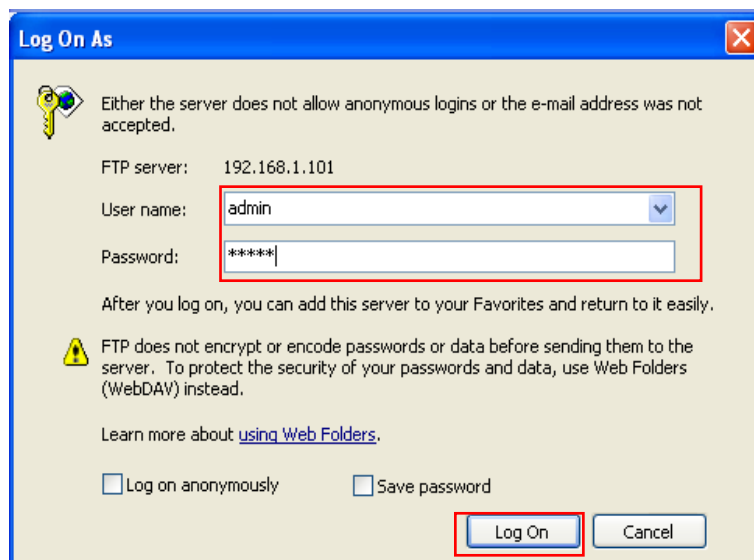


FTP Operation (audio file management)

- (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, password : Rdc070#*) in appeared login window, click “Log on” enter into FTP.



it can use the server build-in WAN program making tools to switch the audio documents.

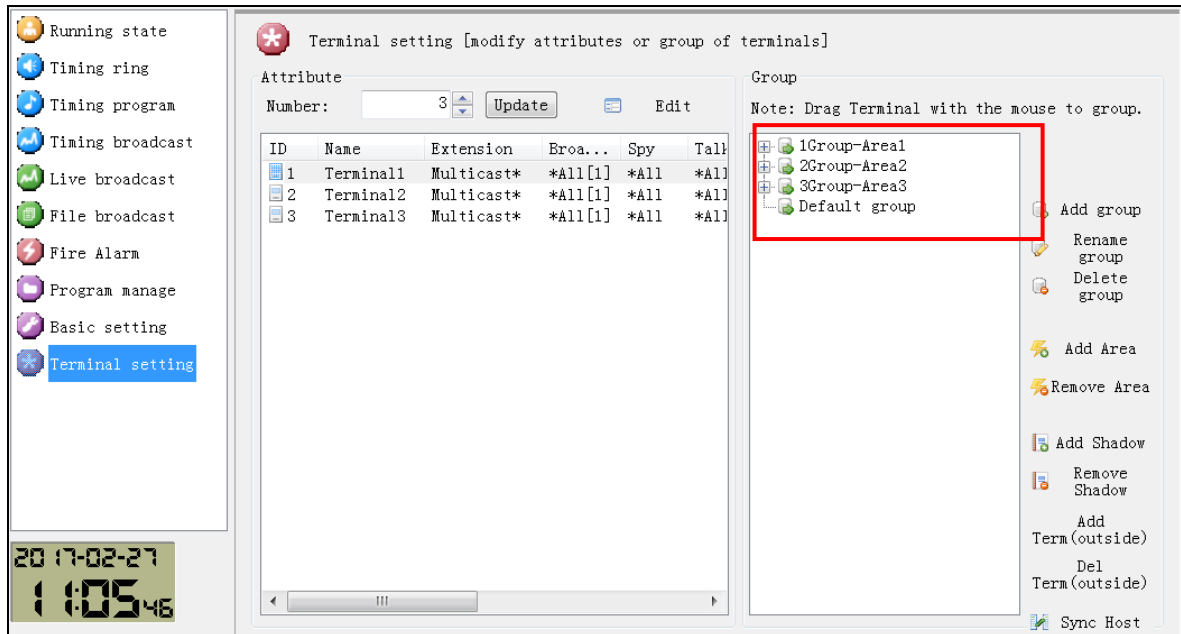
Remote playing file: AudioFile. Make the converted audio file (22K, WAV file) copy to AudioFile folder. Press “file” on the IP Paging Microphone can use the uploaded files.

Ringer folder :RingFile. Make the converted audio 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.

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.



Basic Function

Intercom

Dialing

Press the key **【numbers】** input the target terminal ID number, then press the key **【intercom】** shortcut key to talk with the target terminal.

Press the key **【cancel】**, exit the intercom status.

Speed dial

Firstly, we need to set up the intercom mapping between the keyboard and the corresponding terminal (for the details please refer to the shortcut function settings on the web page.) Press **【F1】 - 【F8】** key on the main interface or the 16 the shortcut key on the expansion panel can make the intercom calling or broadcasting to the corresponding target terminals.

Note: IP Paging Microphone and extension panel can call the terminal within(including) 65000, this function needs to cooperate with the dedicated version server to achieve.

Trigger

Press **【Trigger】** shortcut key to close alarm output port 1 of the target terminal, and then disconnect after 5 seconds.

Transferring

Press **【transfer】** shortcut key, the intercom target will transfer to the next preset target terminal automatically.

Third parties talking

Set the function of third parties talking is enable or not, it's enabled by default.

When the third parties talking is enable, no matter in the state of initiating or receiving intercom, call or call from a third party can be initiated or received to realize third party talking.

Initiate intercom: In the intercom process, press the three parties to enter the terminal ID number, and then press the OK key to initiate the third parties talking.

Receiving intercom: Press **【Intercom】** key to receive.

Note: During the process, the three parties can clearly hear the voice of the other two parties.

Broadcast

Terminal broadcast

Press number key to input the broadcast terminal ID number, then press **【broadcast】** button to realize the broadcasting with the target terminal.

Note: after pressing the number key, use [*] interval to come out, and then press [broadcast] key to realize multiple terminal broadcasts.

For example: to select terminal 1, terminal 2, terminal 3, terminal 5, terminal 10, please press "1*2*3*5*10", and then press [broadcast].

Partition broadcast

Press **【*】**, then press **【Number】** key to enter the broadcasting zones, and last press **【Broadcast】** to realize zone broadcast.

Note: If you want to select multiple broadcasting zones, please with **【*】** space between zones.

For example: to select terminal 1, terminal 2, terminal 3, terminal 5, terminal 10, please press "1*2*3*5*10", and then press [broadcast].

remote broadcast

In the processing of broadcasting, press **【File】** to select audio file.

Monitoring

(1) Press **【figure】** to input the ID number of monitored terminal, then press **【monitor】** key to realize monitoring with the target.

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

Fault Exclude

Terminal can not login the server?

- 1、 Check the server software and main control computer is normally open or not. It must close all the firewall before open the service software, (including the systemic firewall and other antivirus software.)
- 2、 Check the network connection is normally working or not. When the terminal is power on, the network port green indicator light will be normal on, and orange indicator light will rapidly short flicker, it means the cable hard-link is normal. If the network port green indicator light is not light up, there is network hard-link problem, please check the cable and switch which is connected the terminal, check if there is any damage and poor contact abnormal working.
- 3、 Check the terminal IP setting. Checking the terminal ID NO, server IP, local IP and gateway IP these parameters is correct or not.

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 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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