

IP Speaker User Manual



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1. Overview

IP Speaker series is IP based paging speaker. They have different shape, materials and design which can be easily installed in indoor and outdoor environment. The IP speakers are well compatible with SIP & ONVIF protocol that can be used in VoIP and security field. Up to 10 RTP multicast address enable to arrange different paging solutions. Alarm in and HTTP URL are able to combine with alarm system. Pre-recorded message and schedule broadcasting to meet various paging demands. The 48K OPUS Audio Codec enables excellent sound quality to make announcement, play background music, security alarm in school, factory and hospital, etc.

2. Web Configuration

Web configuration includes complete function setting. When the device and your computer are connected to a same network, please open a browser and type in <http://192.168.5.200>, then log in with defaulted username and password as below.

Username: admin

Password: tm1234



The screenshot shows a web browser window with the title "IP Speaker". The page has a "Login" header. There are two input fields: "Username" with the text "admin" and "Password" with six dots. Below the fields are two buttons: "Sign in" and "Cancel". At the bottom left, there is a link that says "Forgot Password?".

2.1 Status

You can check out firmware version, free space and two SIP accounts status of IP speaker, also can locate the current network information here, like MAC, IP address and gateway etc.

IP SPEAKER

- Status
- Basic
- ONVIF
- SIP Account
- Audio
- Media File
- Alarm
- Schedule
- RTP Multicast
- Firewall
- System

Status

| | |
|---------------|---------------------|
| Device Time | 2022-06-16 09:55:48 |
| Serial Number | 50346849A863941C |
| Firmware Ver | CS20-V3.2.0N |
| Free Space | 56KB |
| SIP1 Status | NONE |
| SIP2 Status | NONE |

Network

| | |
|---------------|-------------------|
| MAC Address | A2:C0:A4:EE:A9:A0 |
| IP Address | 192.168.5.247 |
| Subnet Mask | 255.255.255.0 |
| Gateway | 192.168.5.1 |
| Primary DNS | 218.85.152.99 |
| Secondary DNS | 218.85.157.99 |

Refresh

2.2 Basic

2.2.1 Date/ Time

There are two update modes for time: NTP/ local time, choose one and set the time zones, NTP sever and interval can choose default setting, then save the configuration.

Date/Time

Device Time 2022-06-16 09:57:34

Update Mode

TimeZone

NTP Server

NTP Interval Minutes

Date/Time

Device Time 2022-06-16 09:58:49

Update Mode

LocalTime 2022-06-16 09:58:49

2.2.2 Network

When you choose DHCP and save it, IP address will be created automatically by a DHCP server, then you need to login again with the new IP address on browser: 192.168.5.XXX.

Status IP address: it is a default IP and will not be changed as following.

Network

DHCP
 Static IP Address

IP Address: 192.168.5.200
 Subnet Mask: 255.255.255.0
 Gateway: 192.168.5.1
 Primary DNS: 192.168.5.1
 Secondary DNS: 218.85.152.99

[Save](#)

2.3 ONVIF

Select Enable ONVIF, then the device be searched by ONVIF VMS.

Default user name: admin, password:tm1234.

IP SPEAKER

- Status
- Basic
- ONVIF
- SIP Account
- Audio
- Media File
- Alarm
- Schedule
- RTP Multicast
- Firewall
- System

ONVIF

ONVIF Enable

User Name:

Password:

[Save](#)

2.4 SIP Account

Each speaker has two SIP accounts, put SIP extension messages into the blanks and save the configuration, then you can check if it registers successfully or not on status.

| | |
|-------------|---|
| Expire Time | Set the expire time of registered account information |
|-------------|---|

| | |
|-----------------|--|
| Ringtone | 5 system ringtones and 10 users upload media files |
| Auto Answer | answer immediately and answer delay when a calling incomes |
| Incoming Notify | Put an input URL, when a incoming call ringing, URL take effect |
| Answer Notify | Put an input URL, when a incoming call answered, URL take effect |

2.5 Audio

Out volume: adjust mic and output volume at 0-100.

Jitter buffer: to make the audio more stable.

Amp auto off: It's set defaulted as ON, then there is no noise when not broadcasting.

Code setting: four audio codes to compatible with major audio sources.

The screenshot displays the configuration interface for an IP speaker. On the left is a vertical sidebar with menu items: Status, Basic, ONVIF, SIP Account, Audio (highlighted in green), Media File, Alarm, Schedule, RTP Multicast, Firewall, and System. The main content area is titled 'Audio' and contains the following settings:

- Out Volume (0-100): 20
- Jitter Buffer (60 - 2000): 360 ms
- Amp Auto OFF: YES (dropdown menu)
- Codec Setting: A list of four options, each with a checked checkbox: OPUS, G.722, G.711U, and G.711A.

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

2.6 Media File

There are five system ringtones, and you can upload 10 media files as customers' demands: music, announcement, bells, etc.

2.7 Alarm

2.7.1 Alarm In

enable the alarm, select a file and cycle mode, then save setting. and the connect alarm device to the alarm input port in IP speaker.(currently only SIP-S21T horn speaker support)

2.7.2 Http URL

User can control the alarm by HTTP URL:

- (1) Enable the selection;
- (2) Open any browser you have in computer;
- (3) Put the URL as the following examples, enter it.

- Status
- Basic
- ONVIF
- SIP Account
- Audio
- Media File
- Alarm
- Schedule
- RTP Multicast
- Firewall
- System

Alarm In

Alarm Enable

Play File ▶

Cycle Mode
Once only
Multiple times
Duration

Save

Http URL

Play URL Enable

Example1: `http://192.168.5.229/api/play?action=start&file=bell1`

Example2: `http://192.168.5.229/api/play?action=start&file=userfile1&mode=once&volume=10`

Example3: `http://192.168.5.229/api/play?action=start&file=userfile1&mode=multiple&count=10&volume=20`

Example4: `http://192.168.5.229/api/play?action=start&file=userfile1&mode=duration&count=10&volume=30`

Example5: `http://192.168.5.229/api/play?action=stop`

2.8 Schedule

This function is widely use in school, factory and office projects. Making a regular bell, announcement and alarm.

Enable the schedule, you can name the schedule. then setting it step by step.

- Status
- Basic
- ONVIF
- SIP Account
- Audio
- Media File
- Alarm
- Schedule
- RTP Multicast
- Firewall
- System

Schedule Add/Edit

Schedule Enable

Schedule Name

Start Date 📅

End Date 📅

Allowed Days Mon Tue Wed Thu Fri Sat Sun

Action Time 🕒

Action Type

Play File ▶

Cycle Mode

Save Cancel

2.9 RTP Multicast

There are 10 RTP addresses can be received for each device, please note that: port numbers do not use continuous numbers when setting the same RTP addresses. Use discontinuous numbers. eg:

239.255.1.2:8000, 239.255.0.1:8001, 239.255.0.1:8002 (×)

239.255.0.1:8000, 239.255.0.1:8002, 239.255.0.1:8004 (√)

- Multicast address range: 224.0.0.0-239.255.255.
- Ports range: 1024-65536
- Use IP Tool, Audio manager and PA System to make RTP multicast.

| Priority | IP Address (e.g. 239.255.0.1:5004) |
|----------|------------------------------------|
| 1 | e.g. 239.255.0.1:8000 |
| 2 | e.g. 239.255.0.1:8002 |
| 3 | e.g. 239.255.0.1:8004 |
| 4 | e.g. 239.255.0.1:8006 |
| 5 | e.g. 239.255.0.1:8008 |
| 6 | e.g. 239.255.0.1:8010 |
| 7 | e.g. 239.255.0.1:8012 |
| 8 | e.g. 239.255.0.1:8014 |
| 9 | e.g. 239.255.0.1:8016 |
| 10 | e.g. 239.255.0.1:8018 |

Save

2.10 Firewall

This function is use to protect your network safety. You can edit the firewall automatic defence rules as you need as follows.

The screenshot displays the configuration page for the IP Speaker, with the 'Firewall' tab selected in the left-hand navigation menu. The main content area is divided into two sections: 'Firewall Rules' and 'Automatic Defense Rules'.

Firewall Rules

| # | Name | Type | IP/MAC | Action |
|---|------|------|--------|--------|
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | |

Automatic Defense Rules

| # | Name | Protocol | Port Range | Rate |
|---|------|----------|------------|------|
| 1 | | | - | |
| 2 | | | - | |
| 3 | | | - | |
| 4 | | | - | |
| 5 | | | - | |

2.11 System

2.11.1 Upgrade

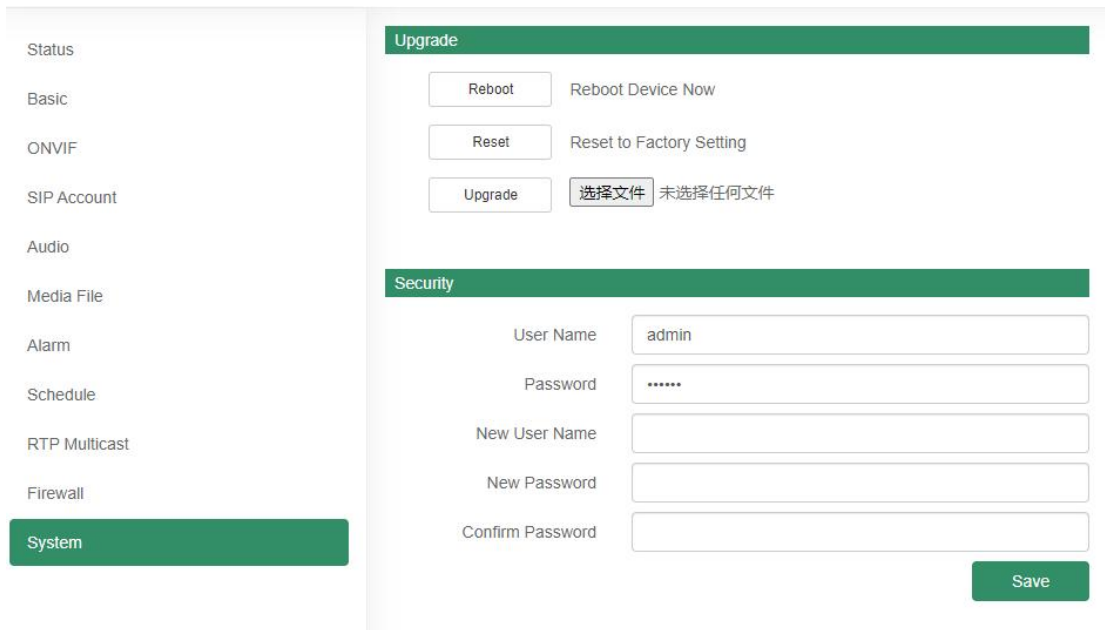
When reboot and reset the system, system will turn to original setting, and you need to re-login the web page.

How to upgrade IP Speaker firmware version in web interface?

- (1) Select the latest version firmware CS20-xxx-bin.
- (2) Click upgrade to refresh, it would require about 20s.
- (3) Re-login the web interface, latest version has upgraded.

2.11.2 Security

Set a new user name and password as you need, save the configuration and restart login.



3. IPTool Configuration

Apart from Web configuration, IPTool is the other option that configure quickly basic information such as SIP account setting, volume setting, RTP Multicast setting, upgrade. Please follow below steps.

- (1) Download IPTool (contact sales or support to get one).
- (2) Enter IPTool, scan local network, the device will appear and then start setting.

