



# TONMiND IP Speaker User Manual

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**TONMiND**

## TONMiND IP Speaker



## Overview

SIP-Sxxx series is IP based paging speaker. They have different shape, materials and design which can be easy installed in indoor and outdoor environment. Tonmind 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.



## 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 image shows a web browser interface for logging into an IP Speaker. The page has a light gray background. At the top, there are two tabs: 'Login' and 'IP Speaker'. The 'Login' tab is active. Below the tabs, there are two input fields: 'Username' and 'Password'. The 'Username' field contains the text 'admin'. The 'Password' field contains six dots. Below the password field, there are two green buttons: 'Sign in' and 'Cancel'. At the bottom left, there is a link that says 'Forgot Password?'.

## 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.

TONMIND

Status

Basic

CNVIF

SIP Account

Audio

Media File

Alarm

Schedule

RTP Multicast

Firewall

System

Status

Device Time

2022-03-01 09:00:59

Serial Number

50346849A878881C

Firmware Ver

CS26-V3.1.5

Free Space

3900KB

SIP1 Status

NONE

SIP2 Status

NONE

Network

MAC Address

A2-C3-A4-20-01-93

IP Address

192.168.5.229

Subnet Mask

255.255.255.0

Gateway

192.168.5.1

Primary DNS

218.85.152.99

Secondary DNS

218.85.157.99

Refresh

## Basic

### 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

2022-03-01 09:06:42

Update Mode

NTP

TimeZone

GMT+08:00

NTP Server

pool.ntp.org

NTP Interval

10

Minutes

Save

Date/Time

Device Time

2022-03-01 09:06:42

Update Mode

LocalTime

LocalTime

2022-05-20 13:50:13

Save

## 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

## ONVIF

Select Enable ONVIF, then the device be searched by ONVIF VMS. Default user name: admin, password:tm1234.

Status  
 Basic  

ONVIF

 SIP Account  
 Audio  
 Media File

ONVIF

ONVIF Enable ☒

User Name

admin

Password

tm1234

Save

## 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

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

SIP Set

Account
Account 1
NONE

User Name

Password

Display Name

Server Host

Server Port

Expire Time
3600
Seconds

Ringing Tone
bell1

Auto Answer
Answer Immediately

Incoming Notify
☒

Http URL

Answer Notify
☒

Http URL

Save

## 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.

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

Audio

Out Volume (0-100)
20

Jitter Buffer (60 - 2000)
360
ms

Amp Auto OFF
YES

Codec Setting
☒ OPUS
☒ G.722
☒ G.711U
☒ G.711A

Save

## Media File

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

## Alarm

### 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)

## 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.

The screenshot shows two configuration pages. The left page is the 'Alarm In' configuration page, which includes a sidebar with options: Status, Basic, ONVIF, SIP Account, Audio, Media File, Alarm (selected), Schedule, RTP Multicast, Firewall, and System. The main content area for 'Alarm In' has 'Alarm Enable' set to an unchecked checkbox, 'Play File' set to 'bell1', and 'Cycle Mode' set to 'Once only' (with a dropdown menu open showing 'Once only', 'Multiple times', and 'Duration'). A 'Save' button is present. The right page is the 'Http URL' configuration page, which has 'Play URL Enable' set to an unchecked checkbox. Below this, five example URLs are listed: 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.

## 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.

The screenshot shows the 'Schedule Add/Edit' configuration page. The sidebar on the left is identical to the previous screenshots, with 'Schedule' selected. The main content area for 'Schedule Add/Edit' has 'Schedule Enable' checked with a green checkmark. 'Schedule Name' is an empty text field. 'Start Date' is set to 2022/01/01 and 'End Date' is set to 2099/12/31. 'Allowed Days' are checked for all days of the week (Mon, Tue, Wed, Thu, Fri, Sat, Sun). 'Action Time' is set to 14:29. 'Action Type' is set to 'Start'. 'Play File' is set to 'bell1' and 'Cycle Mode' is set to 'Once only'. 'Save' and 'Cancel' buttons are at the bottom right.

## 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. 239.255.0.1:8004)
1	<input type="text" value="e.g. 239.255.0.1:8000"/>
2	<input type="text" value="e.g. 239.255.0.1:8002"/>
3	<input type="text" value="e.g. 239.255.0.1:8004"/>
4	<input type="text" value="e.g. 239.255.0.1:8006"/>
5	<input type="text" value="e.g. 239.255.0.1:8008"/>
6	<input type="text" value="e.g. 239.255.0.1:8010"/>
7	<input type="text" value="e.g. 239.255.0.1:8012"/>
8	<input type="text" value="e.g. 239.255.0.1:8014"/>
9	<input type="text" value="e.g. 239.255.0.1:8016"/>
10	<input type="text" value="e.g. 239.255.0.1:8018"/>

Save

## Firewall

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

#	Name	Type	IP/MAC	Action
1				<input type="checkbox"/> <input type="checkbox"/>
2				<input type="checkbox"/> <input type="checkbox"/>
3				<input type="checkbox"/> <input type="checkbox"/>
4				<input type="checkbox"/> <input type="checkbox"/>
5				<input type="checkbox"/> <input type="checkbox"/>

#	Name	Protocol	Port Range	Rate
1				<input type="checkbox"/> <input type="checkbox"/>
2				<input type="checkbox"/> <input type="checkbox"/>
3				<input type="checkbox"/> <input type="checkbox"/>
4				<input type="checkbox"/> <input type="checkbox"/>
5				<input type="checkbox"/> <input type="checkbox"/>

## System

## 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.

## Security

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

The screenshot shows a web interface with a sidebar on the left containing menu items: Status, Basic, ONVIF, SIP Account, Audio, Media File, Alarm, Schedule, RTP Multicast, Firewall, and System. The main content area has two sections. The 'Upgrade' section has buttons for 'Reboot' (labeled 'Reboot Device Now'), 'Reset' (labeled 'Reset to Factory Setting'), and 'Upgrade' (with a file selection button '选择文件' and text '未选择任何文件'). The 'Security' section has input fields for 'User Name' (admin), 'Password' (masked with dots), 'New User Name', 'New Password', and 'Confirm Password', followed by a 'Save' button.

## 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.

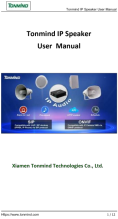
1. Download IPTool in <https://www.tonmind.com/category/downloads/5>
2. Enter IPTool, scan local network, the device will appear and then start setting.

The screenshot shows the IPTool software interface. At the top, there are tabs for 'Network', 'Search', 'RTP Multicast', and 'Settings'. Below these is a table with columns: No., UID, Name, MAC, IP address, Netmask, Gateway, SIP Settings, RTP Settings, Version, Audio, and System. The first row shows a device with UID 5023428330897A1C, Name CS20, MAC a2c0a426a0ce, IP address 192.168.5.192, Netmask 255.255.255.0, Gateway 192.168.5.1, and System admin. Below the table, there are sections for 'Current Device CS20-5023428330897A1C' and 'SIP Account 2', each with input fields for User Name, Password, Display Name, Server Host, and Server Port, and buttons for 'Set' and 'Set All'.

<https://www.tonmind.com>



Documents / Resources

	<p><a href="#">TONMiND IP Speaker</a> [pdf] User Manual IP Speaker, Speaker</p>
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References

- [T PA System,IP Speaker,SIP Paging Adapter | Tonmind](#)
- [T www.tonmind.com](#)