

Tonmind IP Speaker User Manual



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1. 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.

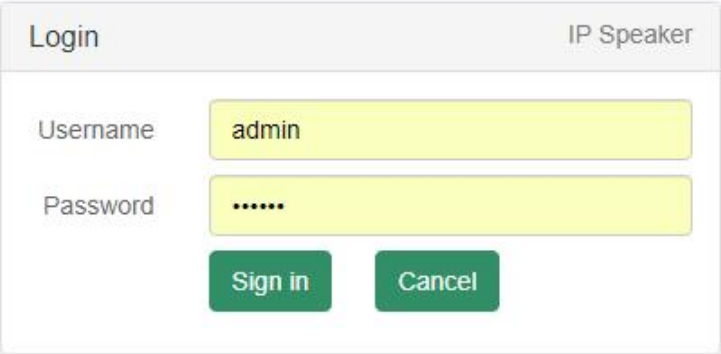


2. Web Configuration

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



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.

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- Status
- Basic
- ONVIF
- 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	CS20-V3.1.5
Free Space	3900KB
SIP1 Status	NONE
SIP2 Status	NONE

Network

MAC Address	A2:C0: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](#)

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	2022-03-01 09:06:42		
Update Mode	<input type="text" value="NTP"/>	<input type="button" value="v"/>	
TimeZone	<input type="text" value="GMT+08:00"/>	<input type="button" value="v"/>	
NTP Server	<input type="text" value="pool.ntp.org"/>	<input type="button" value="v"/>	
NTP Interval	<input type="text" value="10"/>	Minutes	

[Save](#)

Date/Time

Device Time	2022-03-01 09:06:42
Update Mode	<input type="text" value="LocalTime"/>
LocalTime	2022-05-20 13:50:13

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	<input style="width: 80%;" type="text" value="192.168.5.200"/>
Subnet Mask	<input style="width: 80%;" type="text" value="255.255.255.0"/>
Gateway	<input style="width: 80%;" type="text" value="192.168.5.1"/>
Primary DNS	<input style="width: 80%;" type="text" value="192.168.5.1"/>
Secondary DNS	<input style="width: 80%;" type="text" value="218.85.152.99"/>

2.3 ONVIF

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

Default user name: admin, password:tm1234.

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
Ringing Tone	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.

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

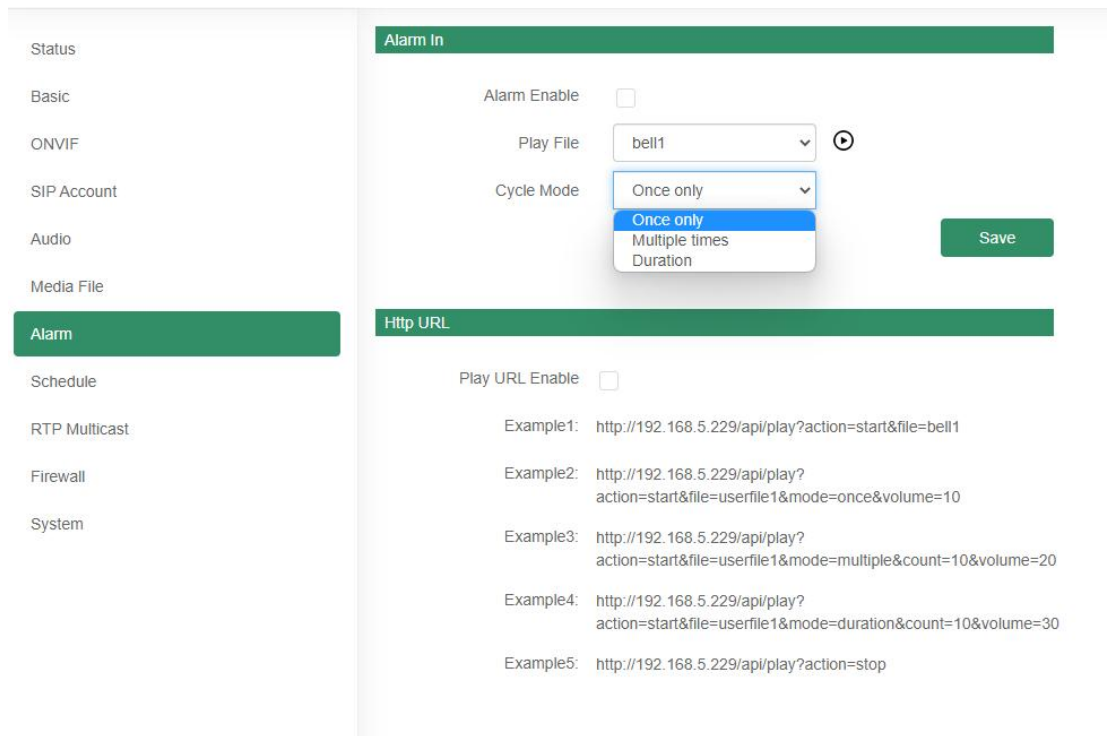
2.7.1 Alarm In

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.



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 2022/01/01

End Date 2099/12/31

Allowed Days Mon Tue Wed Thu Fri Sat Sun

Action Time 14:29

Action Type

Play File

Cycle Mode

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.

Status

Basic

ONVIF

SIP Account

Audio

Media File

Alarm

Schedule

RTP Multicast

Firewall

System

RTP Multicast

Priority	IP Address (e.g. 239.255.0.1:5004)
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"/>

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 Firewall configuration page. On the left is a sidebar menu with options: Status, Basic, ONVIF, SIP Account, Audio, Media File, Alarm, Http URL, Schedule, RTP Multicast, **Firewall**, and System. The main content area is divided into two sections:

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

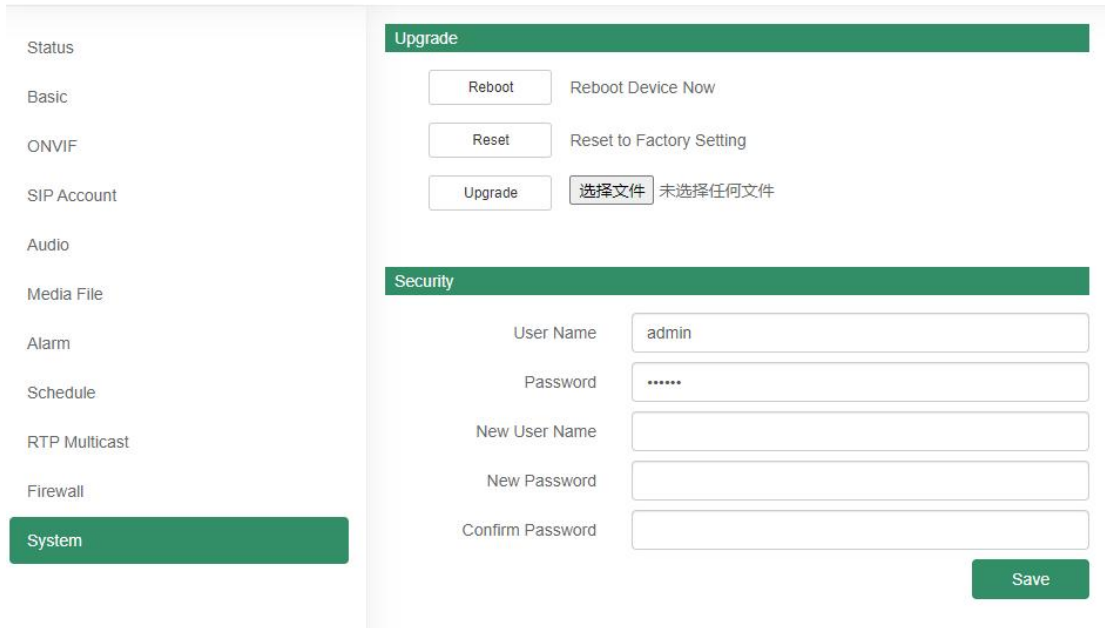
When reboot and reset the system, system will turn to original setting, and you need to re-login the web page.

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

