

AIBASE 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://192.168.0.200>, then log in with defaulted username and password as below.

Username: admin

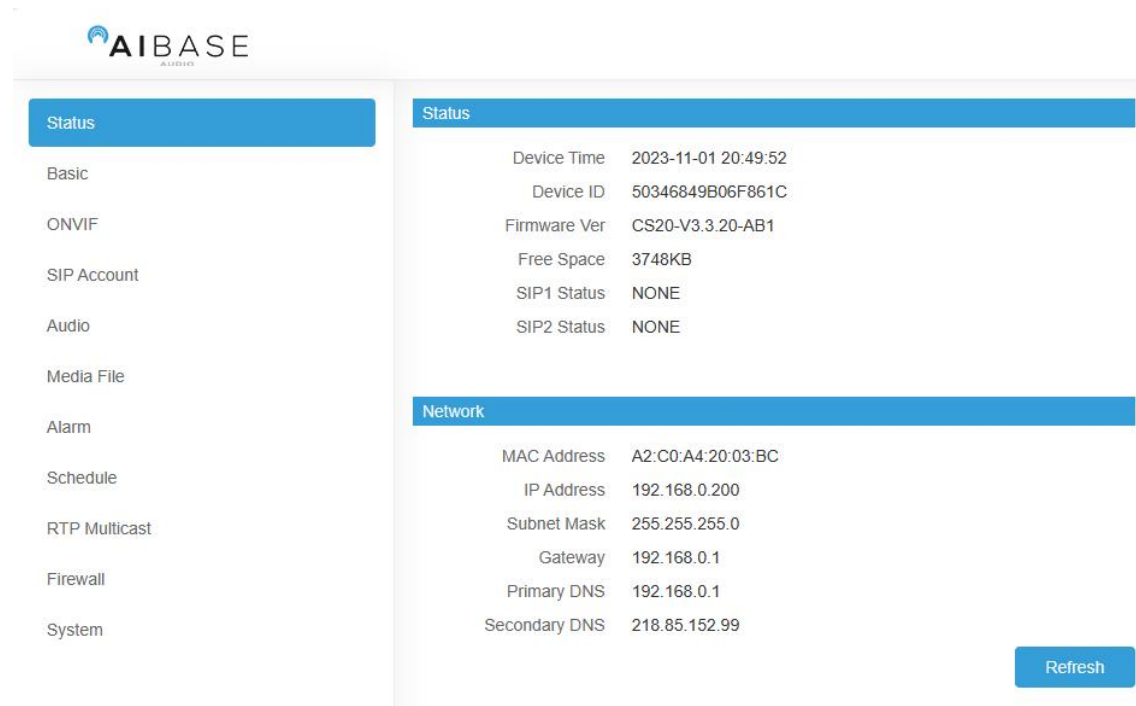
Password: admin



The screenshot shows a web browser window with a login form for an IP Speaker. The form is titled "Login" and "IP Speaker". It contains two input fields: "Username" and "Password". Below the input fields are two buttons: "Sign in" and "Cancel". At the bottom of the form, there is a link labeled "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.



The screenshot displays the AIBASE web interface. On the left is a navigation menu with the following items: Status (highlighted), Basic, ONVIF, SIP Account, Audio, Media File, Alarm, Schedule, RTP Multicast, Firewall, and System. The main content area is divided into two sections: 'Status' and 'Network'. The 'Status' section contains the following information:

Device Time	2023-11-01 20:49:52
Device ID	50346849B06F861C
Firmware Ver	CS20-V3.3.20-AB1
Free Space	3748KB
SIP1 Status	NONE
SIP2 Status	NONE

The 'Network' section contains the following information:

MAC Address	A2:C0:A4:20:03:BC
IP Address	192.168.0.200
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
Primary DNS	192.168.0.1
Secondary DNS	218.85.152.99

A 'Refresh' button is located at the bottom right of the Network section.

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 2023-11-01 21:25:04

Update Mode

TimeZone

NTP Server

NTP Interval Minutes

Date/Time

Device Time 2023-11-02 10:29:08

Update Mode

LocalTime 2023-11-02 10:29:08

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: 192.168.0.XXX.

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

Network

DHCP
 Static IP Address


IP Address
 Subnet Mask
 Gateway
 Primary DNS
 Secondary DNS

[Save](#)

2.3 ONVIF

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

Default user name: admin, password:admin123.



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
-------------	---

Ringling 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

The screenshot shows a web interface for configuring SIP settings. On the left is a sidebar menu with options: Status, Basic, ONVIF, SIP Account (highlighted), Audio, Media File, Alarm, Schedule, RTP Multicast, Firewall, and System. The main content area is divided into two sections: 'SIP Set' and 'SIP Advanced'.
SIP Set section includes:
 - Account: Account 1 (dropdown), NONE
 - User Name: [text input]
 - Auth ID: [text input]
 - Password: [text input]
 - Display Name: [text input]
 - Server Host: [text input]
 - Server Port: [text input]
 - Outbound Proxy: Disable (dropdown)
 - Expire Time: 180 (text input) Seconds
 - Ringing Tone: bell1 (dropdown) with a play button icon
 - Auto Answer: Answer Immediately (dropdown)
 - Incoming Notify:
 - Http URL: [text input]
 - Answer Notify:
 - Http URL: [text input]
 - Save button
SIP Advanced section includes:
 - SIP Protocol: UDP (dropdown)
 - Save button

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.

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

Codec

Codec Setting	<input checked="" type="checkbox"/> OPUS
	<input checked="" type="checkbox"/> G.722
	<input checked="" type="checkbox"/> G.711U
	<input checked="" type="checkbox"/> G.711A

Speaker

Volume (0-100)	<input type="text" value="60"/>
Amp Auto OFF	<input type="text" value="YES"/>
Jitter Buffer (60 - 2000)	<input type="text" value="360"/> ms
HPF	<input type="checkbox"/>
NR	<input type="checkbox"/>

MIC

Gain	<input type="text" value="None"/>
Volume (0-100)	<input type="text" value="80"/>
AEC	<input checked="" type="checkbox"/>
AGC	<input checked="" type="checkbox"/>
AGC Gain Level	<input type="text" value="High"/>
HPF	<input type="checkbox"/>
NR	<input checked="" type="checkbox"/>
NR Level	<input type="text" value="1"/>

2.6 Media File

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

The screenshot displays the 'Media File' configuration page. On the left, a sidebar menu includes 'Status', 'Basic', 'ONVIF', 'SIP Account', 'Audio', 'Media File' (highlighted), 'Alarm', 'Schedule', 'RTP Multicast', 'Firewall', and 'System'. The main area shows two file management sections:

System File

#	Name	Actions
1	bell1	Play, Mute
2	bell2	Play, Mute
3	bell3	Play, Mute
4	bell4	Play, Mute
5	bell5	Play, Mute

User File (3748KB free)

#	Name	File	Actions
1	userfile1	userfile0.wav	选择文件, 未选, Play, Stop, Mute, Delete
2	userfile2		选择文件, 未选, Play
3	userfile3		选择文件, 未选, Play
4	userfile4		选择文件, 未选, Play
5	userfile5		选择文件, 未选, Play
6	userfile6		选择文件, 未选, Play
7	userfile7		选择文件, 未选, Play
8	userfile8		选择文件, 未选, Play
9	userfile9		选择文件, 未选, Play
10	userfile10		选择文件, 未选, Play

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 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

File Enable

Play File

Cycle Mode

Sip Enable

Sip Account

Sip Number

[Save](#)

Http URL

Play File Enable

Example1: `http://192.168.0.200/api/play?action=start&file=bell1`

Example2: `http://192.168.0.200/api/play?action=start&file=userfile1&mode=once&volume=10`

Example3: `http://192.168.0.200/api/play?action=start&file=userfile1&mode=multiple&count=10&volume=20`

Example4: `http://192.168.0.200/api/play?action=start&file=userfile1&mode=duration&count=10&volume=30`

Example5: `http://192.168.0.200/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

#	Name	Time	Action	File		
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

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 IPTool to make RTP multicast.

Priority	IP Address (e.g. 239.255.0.1:5004)
1	<input type="text"/>
2	<input type="text"/>
3	<input type="text"/>
4	<input type="text"/>
5	<input type="text"/>
6	<input type="text"/>
7	<input type="text"/>
8	<input type="text"/>
9	<input type="text"/>
10	<input type="text"/>

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 'Firewall' configuration page in the IP Speaker web interface. The left sidebar shows the 'Firewall' menu item highlighted. The main content area is split 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

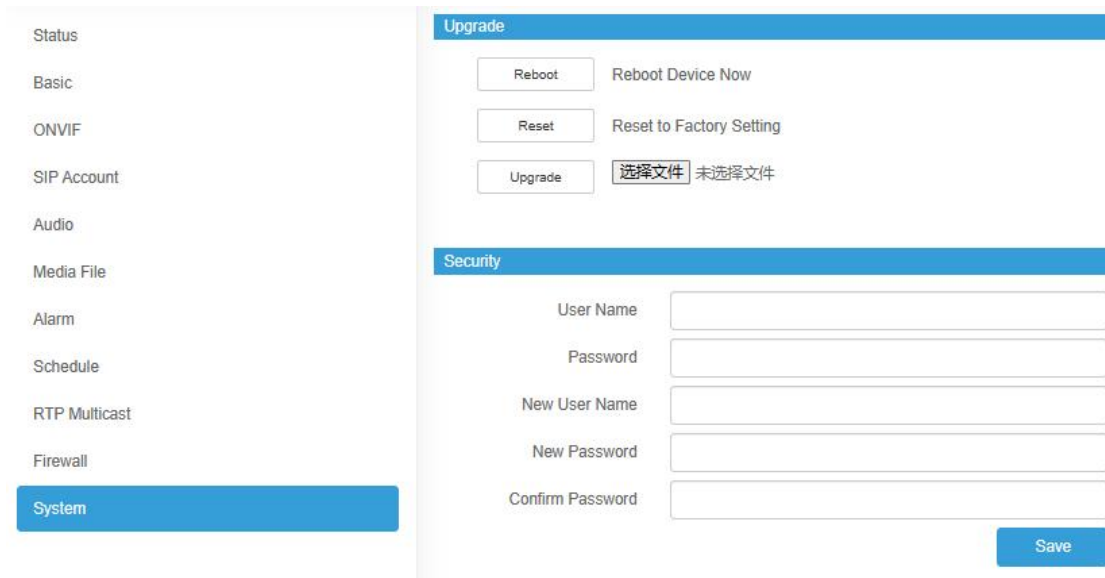
When reboot and reset the system, system will turn to original setting, and you need to re-login the web page.

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

