

IP Speaker

User Manual

V1.01

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1 About this Manual

Copyright Statement

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Disclaimer

Due to such reasons as product version upgrade or regulatory requirement of relevant regions, this manual will be periodically updated.

This manual is for reference only, and all statements, information, and recommendations in this manual are presented without warranty of any kind. The illustrations in this manual are for reference only and may vary depending on the version or model. The screenshots in this manual may have been customized to meet specific requirements and user preferences. As a result, some of the examples and functions featured may differ from those displayed on your monitor.

- The symbols in the following table may be found in this manual. Carefully follow the instructions indicated by the symbols to avoid hazardous situations and use the product properly.

Symbol	Description
	NOTE! Indicates useful or supplemental information about the use of product.
	CAUTION! Indicates a situation which, if not avoided, could result in damage, data loss or malfunction to product.
	WARNING! Indicates a hazardous situation which, if not avoided, could result in bodily injury or death.

2 Device Login

1. Open a Web browser on your PC, enter the IP address of the IP speaker in the address bar (**192.168.1.20** by default), and then press **Enter**.

 **Note:** DHCP is enabled by default. If a DHCP server is deployed in the network, the device may be assigned an IP address, and you need to use the assigned IP address to log in.



2. Choose a language as needed.
3. Enter the username and password (**admin/123456** by default).
4. Click **Login**.
5. Follow the wizard to configure the related parameters.

Wizard

Change Password Note: If IP Speaker is added to managing platform, y...

Old Password*

New Password*

Confirm*

Set Email Note: The email address will be used to retrieve your password.

Email

OK

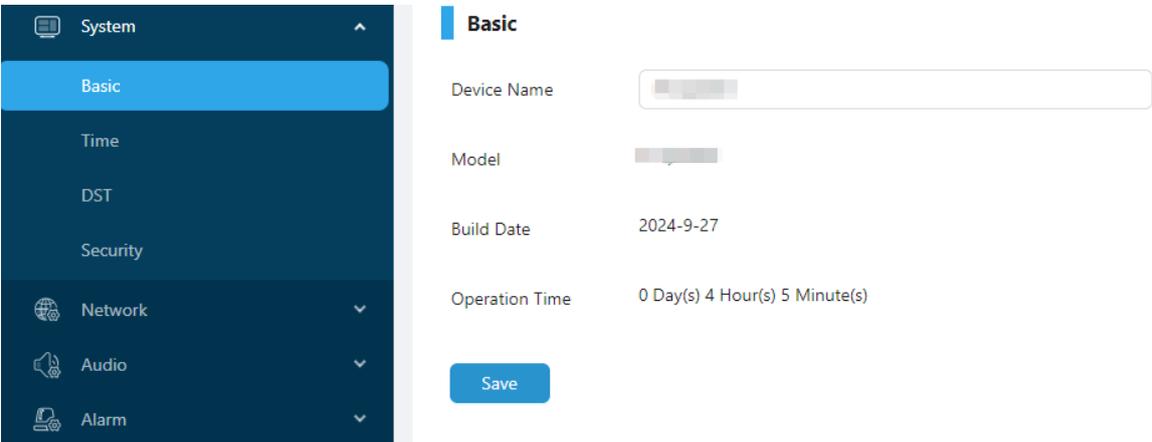
 **Note:** If you have not reserved an email address and forgot the password, you can contact technical support to change the password.

6. Click **OK** to return to the login page and log in with the new password.

 **Note:** After login, you can click English ▾ | admin ▾ in the upper-right corner to switch the language, change the password, set an email address, or log out from the account.

3 System

3.1 Basic



System

- Basic
- Time
- DST
- Security
- Network
- Audio
- Alarm

Basic

Device Name

Model

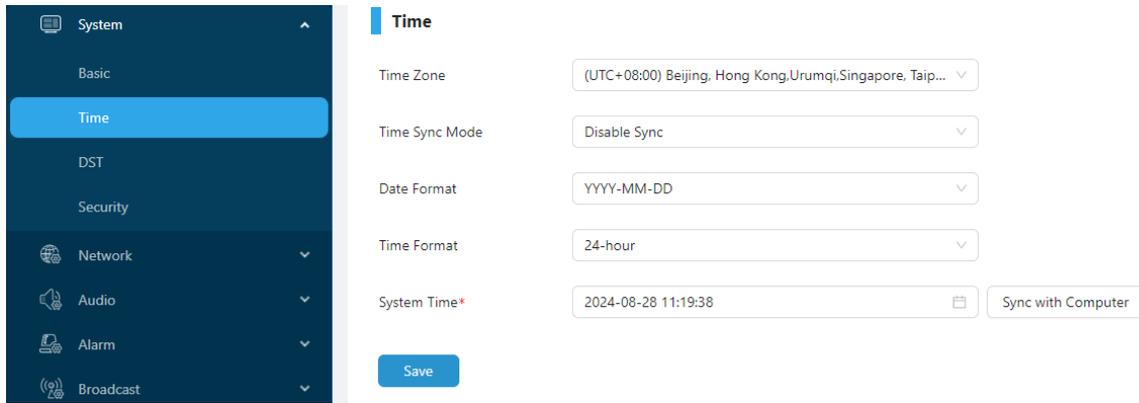
Build Date 2024-9-27

Operation Time 0 Day(s) 4 Hour(s) 5 Minute(s)

Save

Change the device name as needed, and click **Save**.

3.2 Time



The screenshot shows a system settings interface. On the left is a dark blue sidebar with a menu containing: System (expanded), Basic, Time (highlighted in light blue), DST, Security, Network, Audio, Alarm, and Broadcast. The main content area is titled 'Time' and contains the following settings:

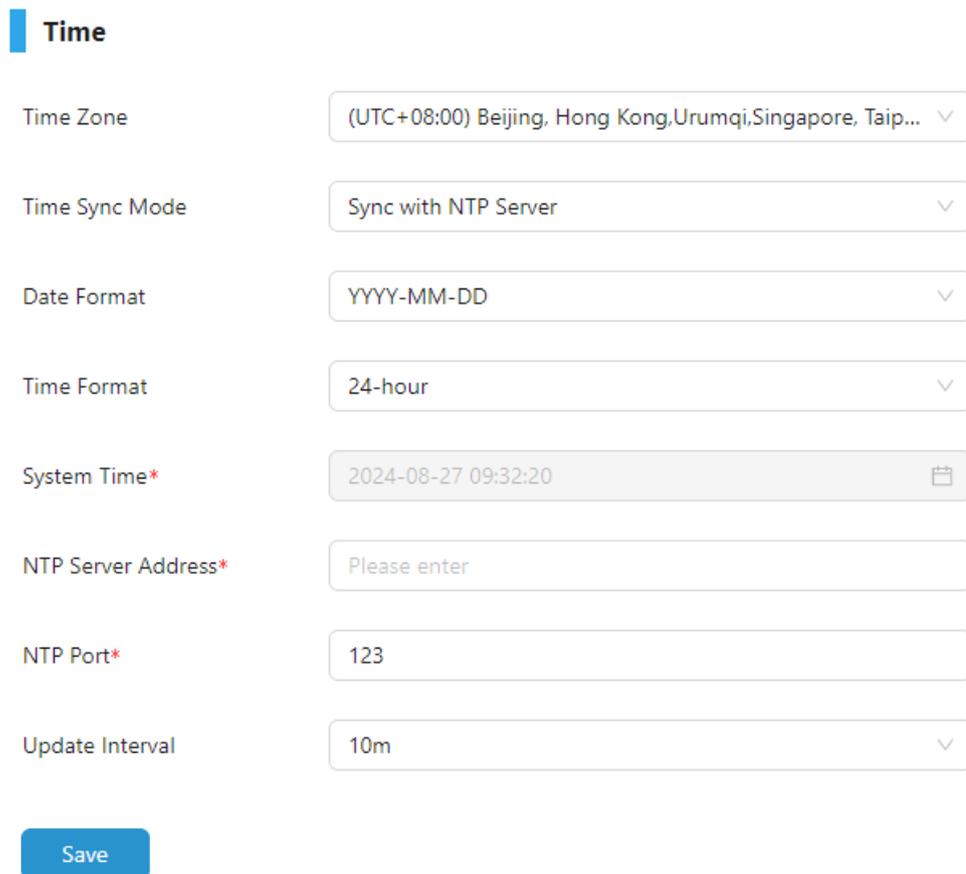
- Time Zone: (UTC+08:00) Beijing, Hong Kong,Urumqi,Singapore, Taip... (dropdown)
- Time Sync Mode: Disable Sync (dropdown)
- Date Format: YYYY-MM-DD (dropdown)
- Time Format: 24-hour (dropdown)
- System Time*: 2024-08-28 11:19:38 (text input with a calendar icon) and a 'Sync with Computer' button.

A blue 'Save' button is located at the bottom left of the settings area.

Configure the time zone, date format, time format, and system time as needed. The following three ways are available.

Sync with NTP Server

1. Choose **Sync with NTP Server** from the **Time Sync Mode** drop-down list.



This screenshot shows the 'Time' settings page with 'Sync with NTP Server' selected in the 'Time Sync Mode' dropdown. The settings are as follows:

- Time Zone: (UTC+08:00) Beijing, Hong Kong,Urumqi,Singapore, Taip... (dropdown)
- Time Sync Mode: Sync with NTP Server (dropdown)
- Date Format: YYYY-MM-DD (dropdown)
- Time Format: 24-hour (dropdown)
- System Time*: 2024-08-27 09:32:20 (text input with a calendar icon)
- NTP Server Address*: Please enter (text input)
- NTP Port*: 123 (text input)
- Update Interval: 10m (dropdown)

A blue 'Save' button is located at the bottom left of the settings area.

2. Configure the NTP server address, NTP port, and update interval. The NTP port should be consistent with the NTP server port.
3. Click **Save**.

Sync with Computer

1. Click **Sync with Computer**, and the device will sync time with the computer.

Time

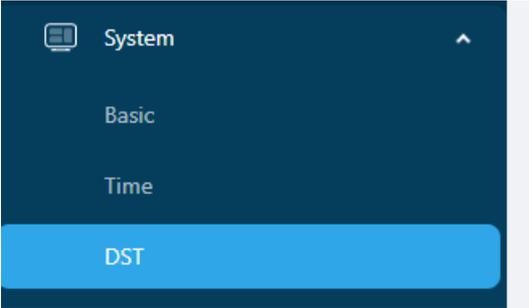
Time Zone	(UTC+08:00) Beijing, Hong Kong,Urumqi,Singapore, Taip... ▼
Time Sync Mode	Disable Sync ▼
Date Format	YYYY-MM-DD ▼
Time Format	24-hour ▼
System Time*	2024-08-27 09:46:51 
	<input type="button" value="Sync with Computer"/>

2. Click **Save**.

Set Manually

1. Click  to set the system time manually.
2. Click **Save**.

3.3 DST



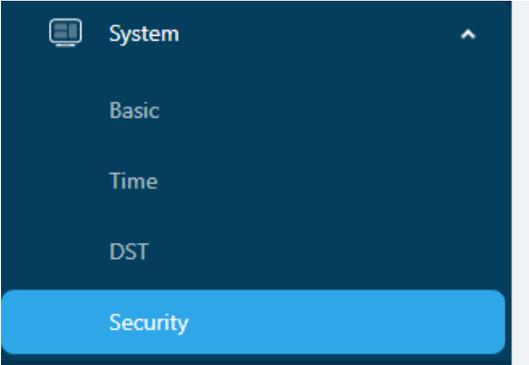
DST	
DST	<input type="checkbox"/>
<input type="button" value="Save"/>	

1. Click to enable **DST**.
2. Set the DST parameters as needed.
3. Click **Save**.

3.4 Security

3.4.1 SSH

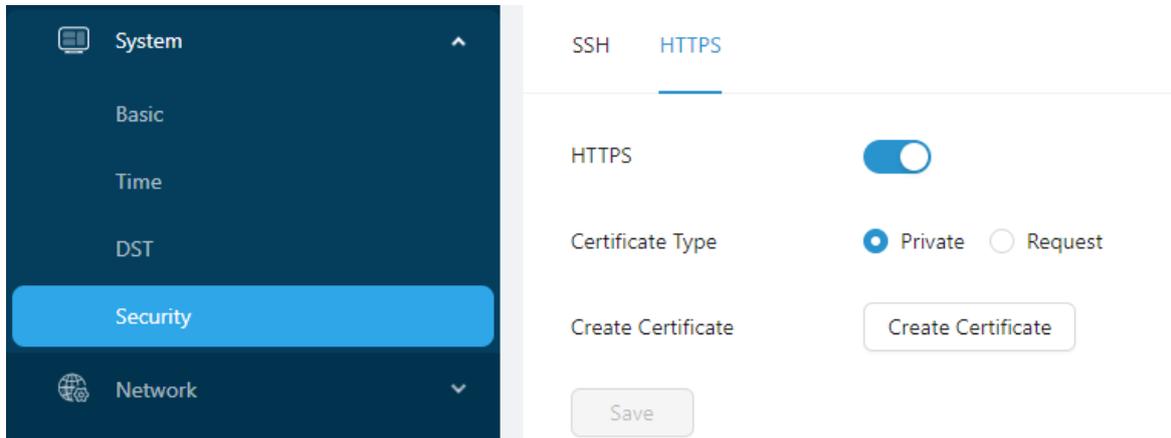
You can enable SSH only for device maintenance and debugging.



SSH	HTTPS
SSH	<input type="checkbox"/>

3.4.2 HTTPS

Use a digital certificate to encrypt the data transmission between the client (browser) and the device to ensure data security.



 **Note:** Please do not create or delete the certificate when HTTPS is enabled.

Private Certificate

A digital certificate generated by the device.

1. Click **Create Certificate**, enter the certificate information, and click **OK**.
 - Country: Abbreviation for the name of the country.
 - Hostname/IP: Device's IP address.
 - Valid Days: Supports customizing the validity period of the certificate.
2. Click to enable **HTTPS**.
3. Click **Save**.
4. Log out from the account and log in again with `Https://IP address`, and install the certificate to the **Trusted Root Certification Authorities** folder of the browser so that you can log in normally.

Certificate Request

A digital certificate signed by a CA authority.

1. Click **Create Certificate**, enter the certificate information, and click **OK** to generate a certificate request.
 - Country: Abbreviation for the name of the country.
 - Hostname/IP: Device's IP address.
2. Click **Download** to download the certificate request and send the request to the CA authority for signature.
3. Click , choose the signed .crt file, and click **Upload**.
4. Click to enable **HTTPS**.
5. Click **Save**.
6. Log out from the account and log in again with `Https://IP address`.

4 Network

4.1 TCP/IP

System	▼
Network	▲
TCP/IP	
Port	
Port Mapping	
Audio	▼
Alarm	▼
Broadcast	▼
Maintenance	▼

TCP/IP

Enable DHCP

IPv4 Address* 172.20.214.16

IPv4 Subnet Mask* 255.255.255.0

IPv4 Default Gateway* 172.20.214.1

MAC Address* 48:9E:83:9D:11:30

MTU* 1500

Preferred DNS Server 8.8.8.8

Alternate DNS Server 8.8.4.4

Save

IP Address

DHCP is enabled by default. The device may be assigned an IP address after it connects to the network. You can disable DHCP, set the IP address as needed, and click **Save**.

Note: MTU (Maximum Transmission Unit): Maximum data transmission unit defined in the network protocol, maximum size of data packets that can be sent in network communication, measured in bytes. When data traverses the network, it is divided into multiple packets, with each packet's size limited by MTU.

DNS

Domain name system. When a device accesses a domain name, such as cloud server, DNS can resolve the domain name to an IP address for easy access. It is recommended to use the default server.

4.2 Port

Configure internal ports including HTTP, HTTPS, and RTSP.

Note: The internal ports are used to access the device's applications on the LAN via a LAN client (browser).

System	▼
Network	▲
TCP/IP	
Port	
Port Mapping	
Audio	▼
Alarm	▼

Port

HTTP Port* 80

HTTPS Port* 443

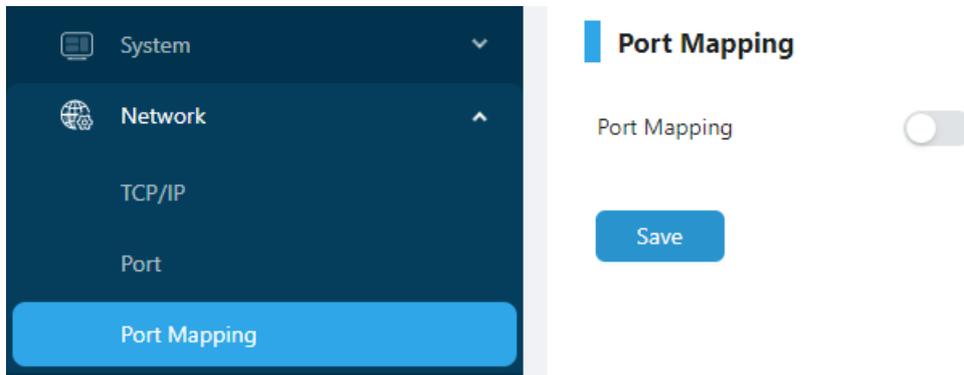
RTSP Port* 554

RTSP URL Format rtsp://<ip>:<port>/media/stream

Save

4.3 Port Mapping

Configure a public network client (browser) to access a private network device's port.



Manual

Configure external ports manually.

 **Note:** The external ports are used to access the device's applications of the device on the LAN via a public network client (browser).

Port Mapping

Port Mapping

Mapping Mode

HTTP Port*

RTSP Port*

HTTPS Port*

UPnP

UPnP is short for Universal Plug and Play. UPnP-enabled network address translation (NAT) can perform automatic port mapping to enable computers on the public network to access the device on the private network.

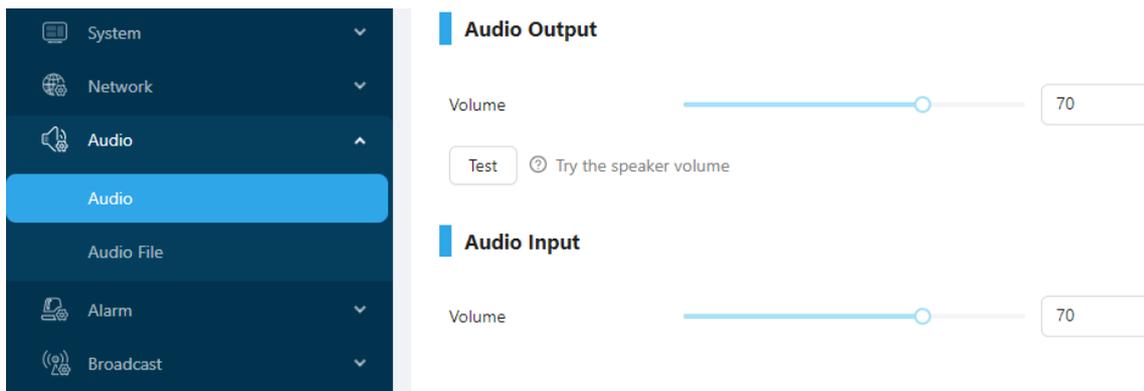
-  **Note:**
- This function requires router support. You need to enable UPnP on the router before starting configuration on the DEVICE.
 - External IP Address: The IP address of the router's WAN port.
 - Device IP: The speaker's IP address.

UPnP Mapping	Description
Auto	The device automatically assigns external port numbers, which are usually the same as the internal port numbers.

UPnP Mapping	Description																												
Manual	<p>Port Mapping</p> <p>Port Mapping <input checked="" type="checkbox"/></p> <p>Mapping Mode <input type="text" value="UPnP"/></p> <p>UPnP Mapping <input type="text" value="Manual"/></p> <table border="1"> <thead> <tr> <th>Port Type</th> <th>External Port</th> <th>External IP Address</th> <th>Internal Port</th> <th>Device IP</th> <th>Enable</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>HTTP Port</td> <td><input type="text" value="80"/></td> <td>N/A</td> <td>80</td> <td>172.20.218.212</td> <td>Yes</td> <td>Inactive</td> </tr> <tr> <td>RTSP Port</td> <td><input type="text" value="554"/></td> <td>N/A</td> <td>554</td> <td>172.20.218.213</td> <td>Yes</td> <td>Inactive</td> </tr> <tr> <td>HTTPS Port</td> <td><input type="text" value="443"/></td> <td>N/A</td> <td>443</td> <td>172.20.218.213</td> <td>Yes</td> <td>Inactive</td> </tr> </tbody> </table> <p><input type="button" value="Save"/></p> <p>Choose Manual from the UPnP Mapping drop-down list, configure the external port as needed, and click Save.</p> <p> Note: After the port mapping is configured, you can enter the IP address of the WAN port of the router in the browser: HTTP external port number to log in to the web interface of the device. For example: If the external IP address of the router is 10.2.2.10 and the external port of HTTP is 82, enter http://10.2.2.10:82 in the address bar of the browser.</p>	Port Type	External Port	External IP Address	Internal Port	Device IP	Enable	Status	HTTP Port	<input type="text" value="80"/>	N/A	80	172.20.218.212	Yes	Inactive	RTSP Port	<input type="text" value="554"/>	N/A	554	172.20.218.213	Yes	Inactive	HTTPS Port	<input type="text" value="443"/>	N/A	443	172.20.218.213	Yes	Inactive
Port Type	External Port	External IP Address	Internal Port	Device IP	Enable	Status																							
HTTP Port	<input type="text" value="80"/>	N/A	80	172.20.218.212	Yes	Inactive																							
RTSP Port	<input type="text" value="554"/>	N/A	554	172.20.218.213	Yes	Inactive																							
HTTPS Port	<input type="text" value="443"/>	N/A	443	172.20.218.213	Yes	Inactive																							

5 Audio

5.1 Audio



Audio Output

Volume 70

 Try the speaker volume

Audio Input

Volume 70

Audio Output

Adjust the volume of device test and two-way audio. Click **Test** to try the volume on the IP speaker.

 **Note:** If the volume set in [Broadcast Schedule](#) is inconsistent with audio output volume, please adjust the audio output volume to match the volume set for the broadcast before test.

Audio Input

Adjust the volume of the device on the NVR or app. That is, the volume of the audio played on the NVR or app during the two-way audio.

5.2 Audio File

The audio file includes system audio and custom audio, which can be used for broadcasting and sound alarm.

System File

No.	Filename	Operation
1	Test Sound	
2	Startup Sound	
3	Please be aware! You are in the monitored area!	

User File

Batch Import Delete Read the audio file configuration rules. Free: 52.74MB Total: 64MB

No.	Filename	Format	Size	Operation
1	sdf1233467aa	mp3	9.51MB	
2	sample-15s	mp3	300.25KB	

System File

- : Click to play audio on your PC.
- : Click to play audio on the local device.

User File

Click **Batch Import** to import the custom audio.

6 Alarm

6.1 Alarm Input

Configure the alarm mode, arming schedule, and alarm-triggered actions for external alarm input devices connected to the IP speaker via the ALARM IN interface. For example, access control devices, doorbells, etc.

Alarm Input

Alarm Input No.: A<-1

Alarm Input Name:

Alarm Type: N.O.

Alarm Input:

Arming Schedule Alarm Sound

	0	2	4	6	8	10	12	14	16	18	20	22	24
Mon													
Tue													
Wed													
Thu													
Fri													
Sat													
Sun													

Armed Disarm...

Save

1. Set other parameters as needed.

- Alarm Input No.: The hardware interface of the IP speaker to which the alarm input device is connected. A<-1 means that the alarm input device is connected to the IP speaker via the ALARM IN 1 interface.
- Alarm Input Name: Set the name as needed.
- Alarm Type
 - N.O.: Choose this option if the alarm input device is normally closed. The normally closed alarm device opens the circuit to input an alarm, triggers the device to open the alarm circuit and generate an alarm.
 - N.C.: Choose this option if the alarm input device is normally opened. The normally opened alarm device closes the circuit to input an alarm, triggers the device to close the alarm circuit and generate an alarm.

2. Enable **Alarm Input**.

3. Set the arming schedule. A 24/7 normal recording schedule is enabled by default. To change the arming schedule, you can cancel all arming schedules first and reset the arming schedule as needed. The following mainly introduces the arming method. To disarm the schedule, click **Disarming**, and follow the steps below.
 - Set a schedule: Set the arming schedule in minutes. You can only set the arming schedule for one day at a time.
 - (1) Click **Armed**.
 - (2) Click any time cell of the day you want to set, and the cell becomes blue. Move the mouse away from the blue cell, and hover it again until the setting box appears.



- (3) Set the start time and end time.
 - (4) Click **OK**.
- Draw a schedule: Draw the arming schedule in hours. You can draw the arming schedule for multiple days at a time.
 - (1) Click **Armed**.
 - (2) Right-click or drag on the schedule to select the time cells you want to enable arming.
 - (3) Click **OK**.

 **Note:** You can draw the arming schedule roughly, and then set the precise period.

4. Set the alarm sound.

Item	Description
Enable	Click <input type="checkbox"/> to enable alarm sound.
Audio	Choose an alarm audio.
Volume	The volume at which the alarm audio is played.
Play Mode	By Play Count: The number of times that the alarm audio is played. By Duration: The duration that the alarm audio is played.
Play Count	Set it as needed.
Duration	Set it as needed.

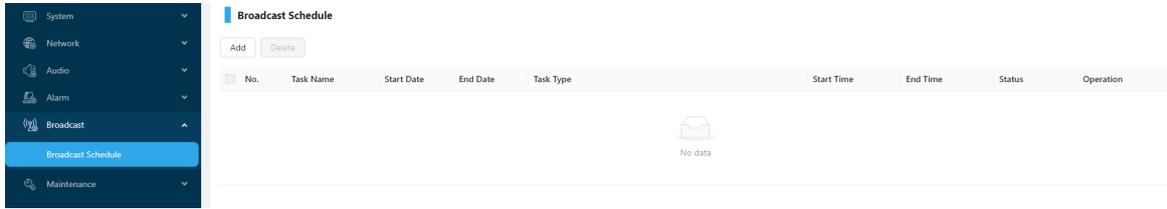
5. Click **Save**.

7 Broadcast

7.1 Broadcast Schedule

Configure the play time of the broadcast file.

 **Note:** The time periods of different schedules cannot overlap.



1. Click **Add**.
2. Configure the basic information.

Basic Info	Description
Task Name	Set it as needed.
Start/End Date	The start/end date of the schedule.
Task Type	Daily: Play the broadcast during the schedule time every day. Weekly: Play the broadcast during the schedule time every week.
Repeat Day(s)	Repeated days of the weekly schedule.
Start/End Time	Play time every day or on the specified day(s) according to the schedule.
Play Mode	Repeat: Play broadcast repeatedly during the schedule. If there are multiple audio files, all audio files will be played in a single loop. By Play Count: Play audio based on the set times during the schedule. If there are multiple audio files, all audio files will be played in a single loop.
Play Count	Set it as needed.  Note: If the set play count reaches but the end time has not reached, the audio will stop.
Volume	The volume of the current file played by the device.  Note: To try the volume of the broadcast task, adjust the audio output volume to the volume set by the current task before test.

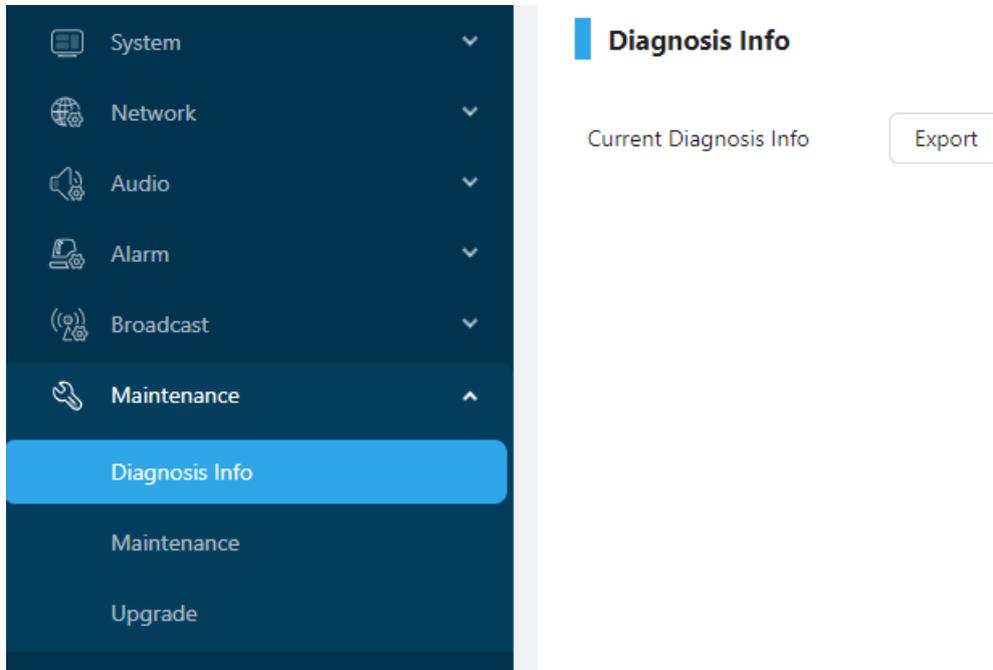
3. Configure the audio file.
 - (1) Click **Add**, and choose the desired audio file(s).
 - (2) Click **OK**.

 **Note:**

- Click  to delete the audio file.
- Click and drag  to sort the audio file.

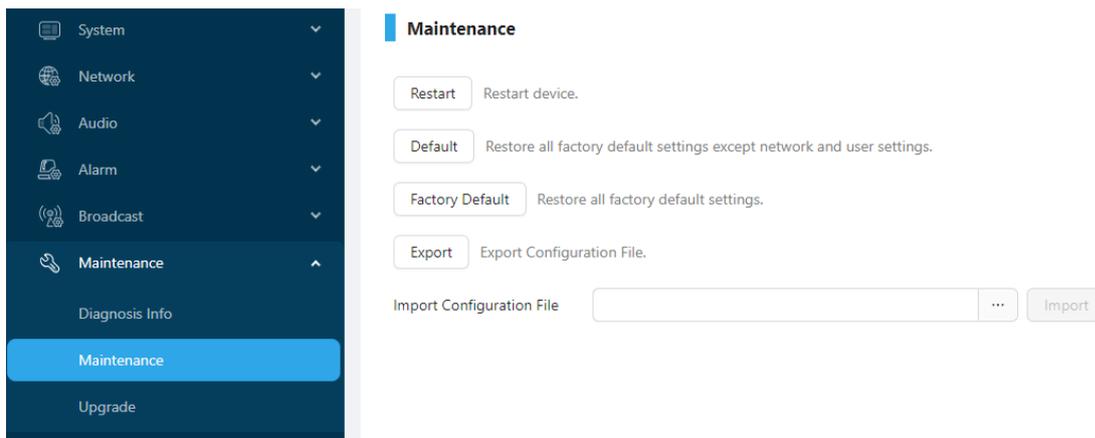
8 Maintenance

8.1 Diagnosis Info



Click **Export** to export the current diagnosis information.

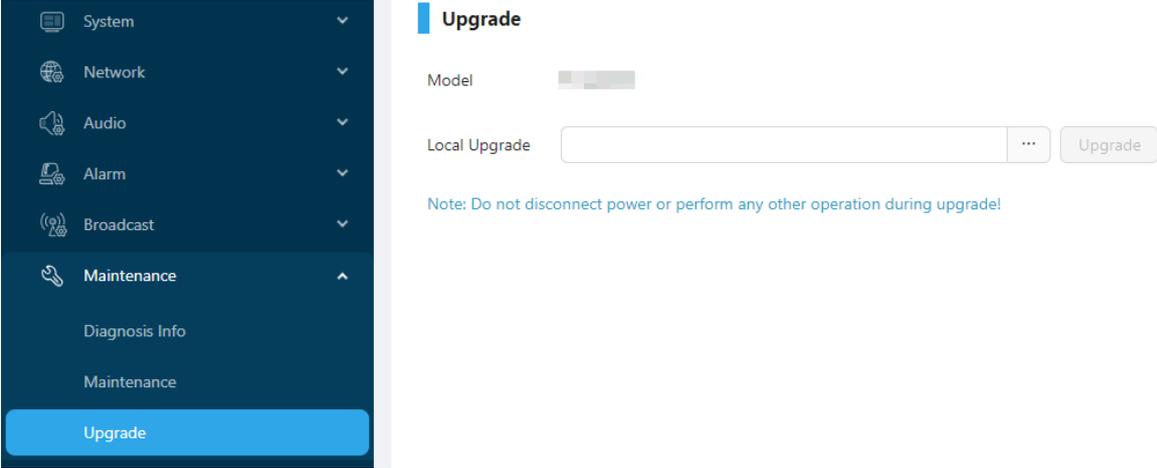
8.2 Maintenance



Click **...**, choose the configuration file, and click **Import** to import the configurations of other speakers to the current device.

 **Note:** The software version of the device to which the configuration file resides must be the same as that of the device to which the configuration file is imported.

8.3 Upgrade



Click **...**, choose an upgrade file, and click **Upgrade** to upgrade the system version to the new one.