

Audio Assistant

User Manual

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The symbols that may be found in this document are defined as follows.

Symbol	Description
Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
Note	Provides additional information to emphasize or supplement important points of the main text.

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Chapter 1 Overview

1.1 Introduction

The audio assistant is a software that integrates functions such as online searching, device management, parameter configuration, etc., and supports batch configuration and program upgrading of audio devices to improve efficiency.

1.2 Client Download Address

Get the Audio Assistant software from the official website ***http://www.hikvision.com/***.

1.3 System Requirements

- Operating System: Windows(R) 10 (recommended), Compatible with Windows(R) 7 / Windows(R) 8.1 / Windows(R) 11
- CPU: Intel(R) i3-9100@4.2 GHz or above
- RAM: 4 GB and above
- Video Card: GT1030 D5
- HDD: 20 GB
- Display: 1920 × 1080 and above

1.4 Operation Process

When you enter the software for the first time, it is recommended to configure it according to the following process (Click the section No. to go to the description section.)

New Project

(*Chapter 2 Project Management*)

⇩

Add Device

(*Chapter 3 Device Management*)

⇩

New Room

(*4.1 Room Management*)

⇩

Connect and Deploy Devices in Room

(*4.2 Device Routing*, *4.3 Coverage Area Mapping*)

⇩

Set Device Parameters

（*Chapter 5 System Configuration*）

Chapter 2 Project Management

Add New Project

- Method 1: Click ＋ in the upper-left corner of the software page.
- Method 2: Click **Project Management** in the upper-left corner of the software page to enter the project list page. Click **New Project** in the upper-left corner.

Import Project

In the project list, click **Import Project** in the upper-left corner, click , select file, and click **OK**.

View Project List

In the project list, click to view projects in a list, or click to view projects in cards.

Edit Project

In the project list, select a project, and click in the Operation column to edit the project name and remarks.

Delete Project

In the project list, select a project, and click in the Operation column to delete the project.

Export Project

In the project list, select a project, and click in the Operation column to export the project.

Adjust Project Display Order

In the project list, click to sort the project in ascending or descending order according to the last edited time.

Search Project

In the upper-right corner, enter a project name and click to search for corresponding projects.

Chapter 3 Device Management

After online searching the device that need to be managed, you can activate the device, configure network parameters, and upgrade the device in a batch.

3.1 Add Device

You can search for online devices and add them to the device list. The device can be added via IP address, IP address segment, and batch importing.

3.1.1 Search and Add Online Device

The software will search for devices in the same network segment or local network automatically, and update the online device list in real time.
The list will display the device model, activation status, IP address, port No., software version, IPv4 gateway, HTTP port, etc. of all online devices

Note

- Device information will be refreshed automatically every 1 minute. You can also click **Refresh** to refresh the device information manually.
- If the device is offline for more than 3 minutes, the software will clear the device information from the list automatically

You can select one or more devices and click **Add to Device List** to add them to the Device List. To operate more functions, see ***More Functions*** for details.

3.1.2 Add Device by IP Address

You can add devices by entering the device IP address, port No., user name, and password.

Steps

1. In the Device List of Device Management, click **Add**.

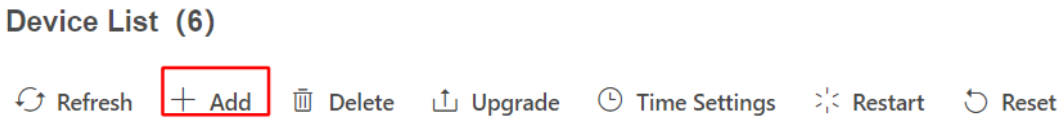


Figure 3-1 Adding Device

2. Select **IP** as the adding mode.

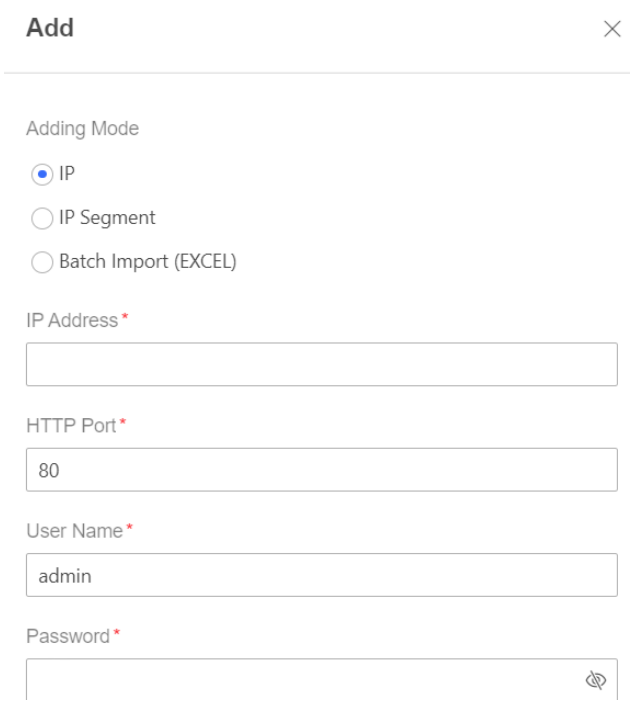


Figure 3-2 Add Device by IP Address

3. Enter device IP address, HTTP port, user name, and password.
4. Click **OK**.
   After adding, the added device will be displayed in the Device List.
5. **Optional**: For more operation in device list, see ***More Functions*** for details.

3.1.3 Add Device by IP Segment

If the IP address of multiple devices is in a certain IP segment, and the same user name and password exists, you can set the IP address to start IP address and end IP address to batch add the devices in this IP segment to the software.

Steps

1. In the Device List of Device Management, click **Add**.
2. Select **IP Segment** as the adding mode.

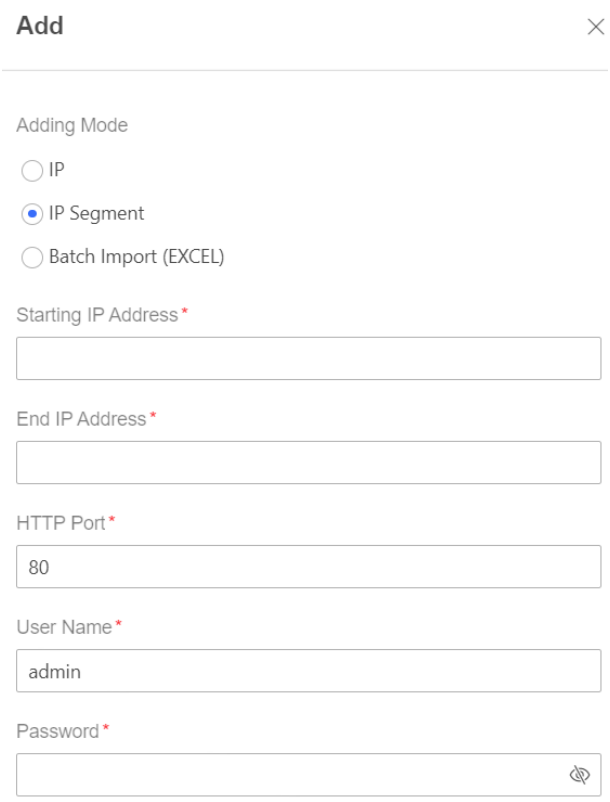


Figure 3-3 Add Device by IP Segment

3. Enter the device's start IP address, end IP address, HTTP port, user name, and password.
4. Click **OK**.
   After adding, the added device will be displayed in the Device List.
5. **Optional**: For more operation in device list, see ***More Functions*** for details.

3.1.4 Batch Import Devices

You can enter device information in the template file, and importing the template file to batch add devices to the software. It is suitable for large number of devices, so as to import a large amount of device information flexibly

Steps

1. In the Device List of Device Management, click **Add**.
2. Select **Batch Import (Excel)** as the adding mode.

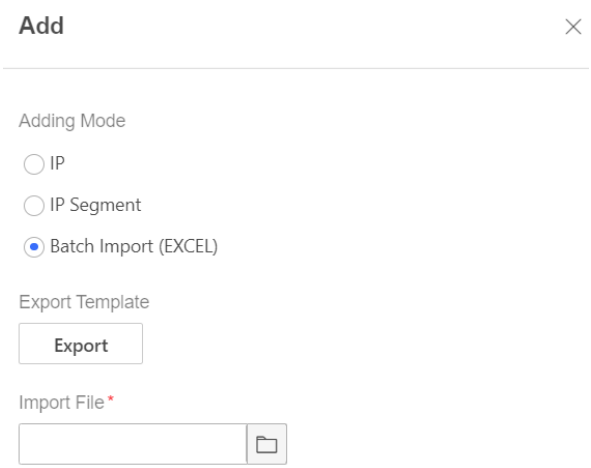


Figure 3-4 Import Device via EXCEL

3. Click **Export** to download the template file to the local PC.
4. Fill in the added device information in the local template file.
5. Click to select template file, and click **Open**.
6. Click **OK**.
   After adding, the added device will be displayed in the Device List.
7. **Optional**: For more operation in device list, see ***More Functions*** for details.

3.2 General Operations

After adding the devices to the Device List, you can activate device, set network, reset password, etc.

3.2.1 Activate Device

In order to better improve the security of user data and operation, the device should be activated in advance.

Steps

1. In the Device List, select one or more inactivated devices.
2. Enter new password and confirm password.

Caution

- To better protect your privacy and improve product security, you are strongly recommended to set a more complex password according to the following rules: the password should be between 8 and 16 characters, including digits, lowercase letters, and special characters.
- And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

3. Click **Activate**.
   After the device is activated, the default IP address is 192.168.1.64. If you need to change the IP address, see ***Edit Network Parameters***.

3.2.2 Edit Network Parameters

You can edit multiple device parameters, such as IP address, port, subnet mask, gateway, etc.

Before You Start

Make sure the device is activated.

Steps

1. Select multiple devices or all devices that need to edit network parameters.

   Note

   Click / to expand or hide the window of Activation and Network Parameters.

2. Enter parameters such as start IP address, port, subnet mask, gateway, etc.
3. Enter **Admin Password**.
4. Click **OK**.

3.2.3 Batch Upgrade Device

After adding the device, the device can be batch upgraded. Only certain devices support the function. Only online devices can be upgraded.

Steps

1. In the Device List of the Device Management page, select one or more devices, and click **Upgrade**.
2. Select upgrade mode.
   - Local upgrade.
     1. Select **By Main Program** or **By Module**.

        Note

        If you select **By Module**, you need to select upgrade module (MCU or card reader). When you select card reader, you should enter card reader No.

     2. Click to select upgrade package from local PC.
3. Set execution mode.
   - Serial: Multiple upgrade programs are executed in order.
   - Parallel: Multiple upgrade programs are executed simultaneously.
4. Click **OK**.

3.2.4 More Functions

In the Device List, you can also go to remote configuration, refresh devices, reboot devices, etc. Perform the following operations.

Note

The following functions should be supported by devices.

Operation	Description
Remote Configuration	In the Operation column of a device, click ⚙ to enter the device Remote Configuration page to edit device parameters.
Refresh Device List	Click **Refresh** to refresh the device list.
Upgrade Device	Select one or more devices. Click **Upgrade** to enter the device upgrade page. Refer to ***3.2.3 Batch Upgrade*** Device for details.
Time Configuration	Select one or more devices. Click **Time Settings** to configure device time. Refer to ***Set Time Parameters*** for details.
Reboot Device	Select one or more devices, click **Reboot**, and click **OK** in the pop-up window.
Reset Device	Select one or more devices, click **Reset** and select reset mode to reset the devices. **Restore**: All settings will be reset to their default values excluding the user name, password, activation status, network settings, and IP address. **Restore Factory**: Your device will be reset to its default settings.
Delete Device	Select one or more devices, and click **Delete** to delete the devices.
Search Device	Enter the device name and click 🔍 to search for devices.

Chapter 4 My Room

4.1 Room Management

Add New Room

Click **My Room** in the left side to enter the room list page. Click **New Room** in the upper-left corner.
Set room information.

Import Room

In the room list, click **Import Room** in the upper-left corner, click , select file, and click **OK**.

Edit Room

In the room list, select a room, and click in the Operation column to edit the room name and remarks.

Delete Room

In the room list, select a room, and click in the Operation column to delete the room.

Export Room

In the room list, select a room, and click in the Operation column to export the room.

Room Details

- Method 1: Double-click the room in the room list to enter the room details, and set the device for routing and other settings. See ***4.2 Device Routing*** for details.
- Method 2: Select a room in the room list. Click in the Operation column to enter the room details and set the device for routing and other settings. See ***4.2 Device Routing*** for details.

4.2 Device Routing

Create connection between devices.

Steps

1. Click ***Add Device*** to select device in the list of devices to be added.

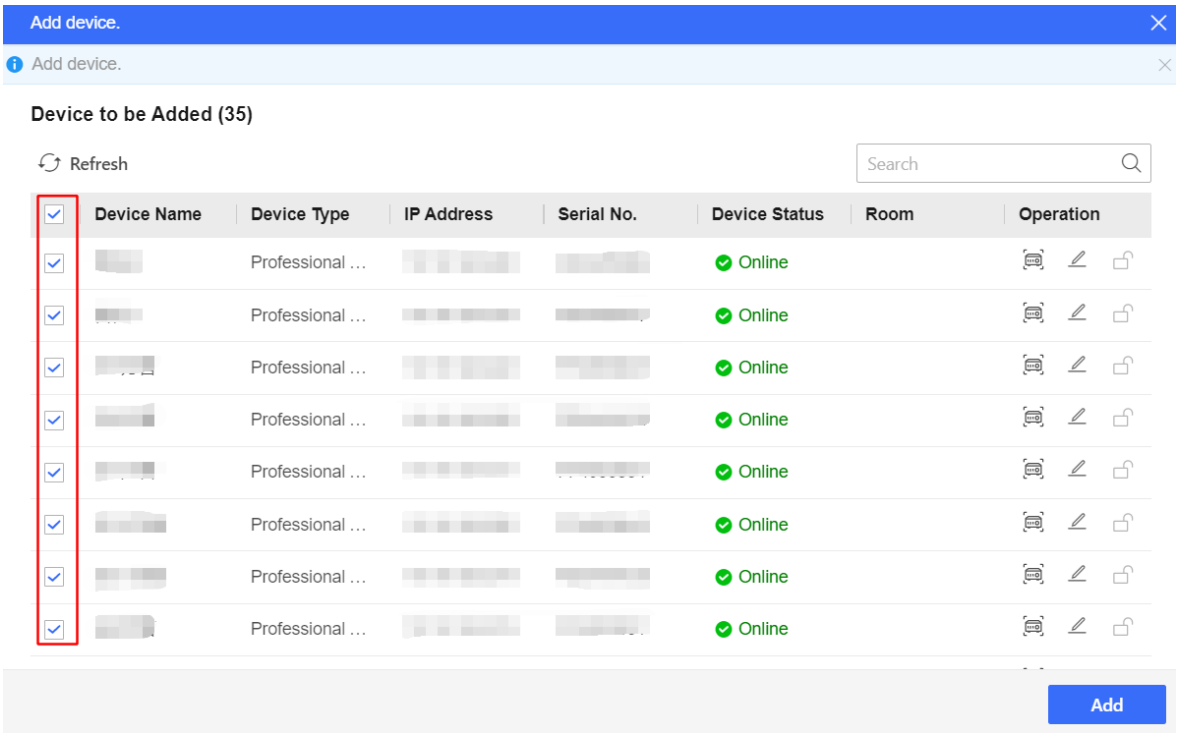


Figure 4-1 Add Device to Room

2. Click **Add** to add the device to the current device list.
3. Add the device to the drawing plate on the right.
- Method 1. Select the device to add to the device list, and click **Import** below.
- Method 2. Click to select the device, drag the device directly from the device list to the right.
4. Select the device in the drawing plate and adjust it to the correct position.
5. Connect as needed: When the icon is changed to +, you can drag and drop a blue dotted line, and the interface will display a light green circle. After connecting, the blue dotted line will turn to blue solid line.

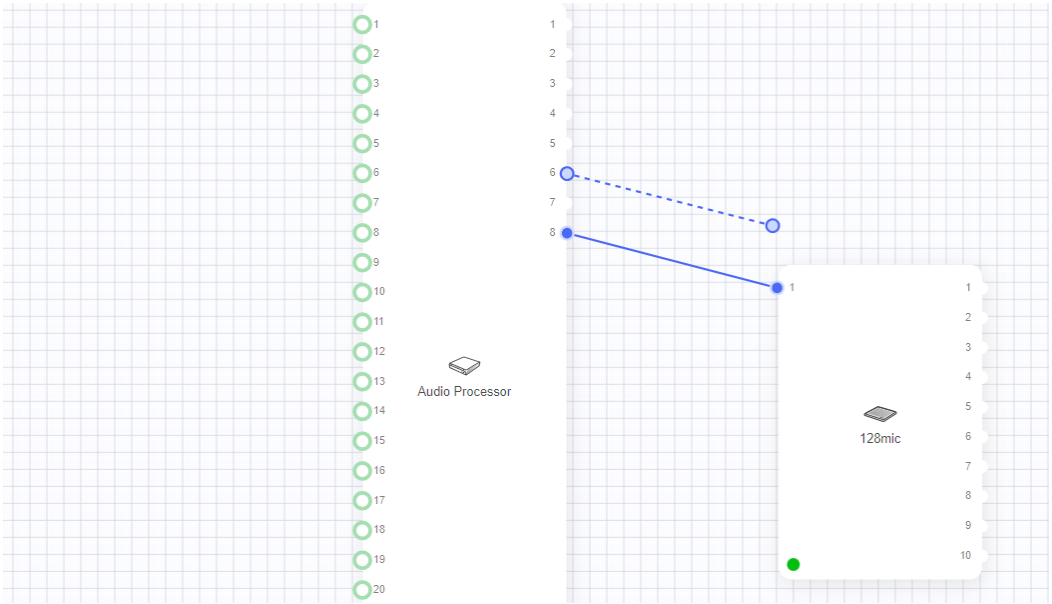


Figure 4-2 Device Connection

6. See ***4.2.1 More Functions*** for more information, and click **Deploy** after configuration.

Note

Deployment is not supported when offline device exists.

4.2.1 More Functions

Note

Only certain models support the following functions.

Table 4-1 More Function Description

Operation	Description
View Device Attributes	Select the device in the drawing plate, and click to view device attributes. If the device attribute is expanded, you can select the device and view it directly. Device attributes include device name, device model, device status, etc.
Edit Device Name	● Method 1: Edit the device name in the Device Attributes page. ● Method 2: Click in Add Device page to edit device name.
Set Device	Double-click the device in the drawing plate or click **Configuration** in the Device Attributes page to enter the System Configuration page. You can set the device parameters. See ***Chapter 5 System Configuration*** for details.
Identify Device	● Method 1: Click **Identify Device** in the Device Attributes page to flash the device white light 10 times. ● Method 2: Click in the Add Device page to flash the device white light 10 times.
Delete Device from Drawing Plate	Select the device, press the delete key on the keyboard, and click **OK** in the pop-up page. The device will be deleted from the drawing plate and returned to the Current Device list.
Unlink Device from Room	Devices (except audio processor) can only be added to one room. If you need to add devices to other rooms, you need to unlink the added devices. ● Method 1: Select the device to be unlinked in the Current Device list, and click **Delete**. ● Method 2: Click to unlink the device in the Add Device page. The device can be added to other rooms after unlinking.

Operation	Description
Adjust Device Interface Connection in Drawing Plate	Delete the connection: Click to select the connection, and when it changes to a solid red line, press the delete key on the keyboard. Edited the connection: Click to select the connected interface, and when the connection changes to a blue dotted line, connect to the new interface.
Adjust Drawing Plate Ratio	● Method 1: Slide the mouse wheel to zoom in or out the ratio. ● Method 2: Click the icon in the lower-left corner of the drawing plate to adjust. - : Zoom in. - : Zoom out. - : Adaptive.

4.3 Coverage Area Mapping

Note

This function is only supported by some devices. Please refer to actual devices for details.

Steps

1. Click **Coverage Area Mapping** to enter the page.
2. Enter room size information and add picture according to needs.

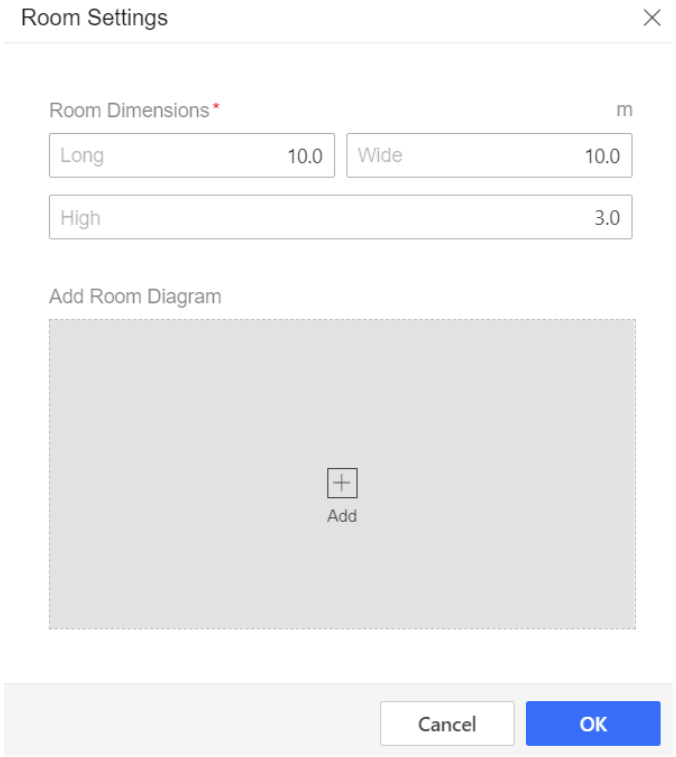


Figure 4-3 Room Settings

3. Click **OK**.
4. When adding images, you should set the scale, which is the actual length of the two-point line segment. The picture will be zoomed in or out to show the size of the real room, so you can locate device and audio coverage.

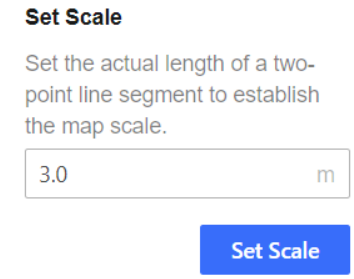


Figure 4-4 Set Scale

5. Adjust device location.
- Method 1: Click to select the device in the drawing plate and adjust it to the correct location.
- Method 2: Click to select the added device in the Device Configuration page on the left, and enter the device location information.

6. Some devices support adding channels. See ***4.3.1 Channel Configuration*** .
7. Some devices support beam width configuration. See ***4.3.2 Beam Width Configuration***.
8. See ***4.2.1 More Functions*** for more information, and click **Deploy** after configuration.

Note

Deployment is not supported when offline device exists.

9. After the deployment is completed, click **Audio Test** check device status.

Note

Blue indicates the device is normal, gray indicates the device is abnormal.

4.3.1 Channel Configuration

Note

This function is only supported by some devices. Please refer to actual devices for details.

Steps

1. Click to select the added device in the Device Configuration on the left, and click **Add Channel**.

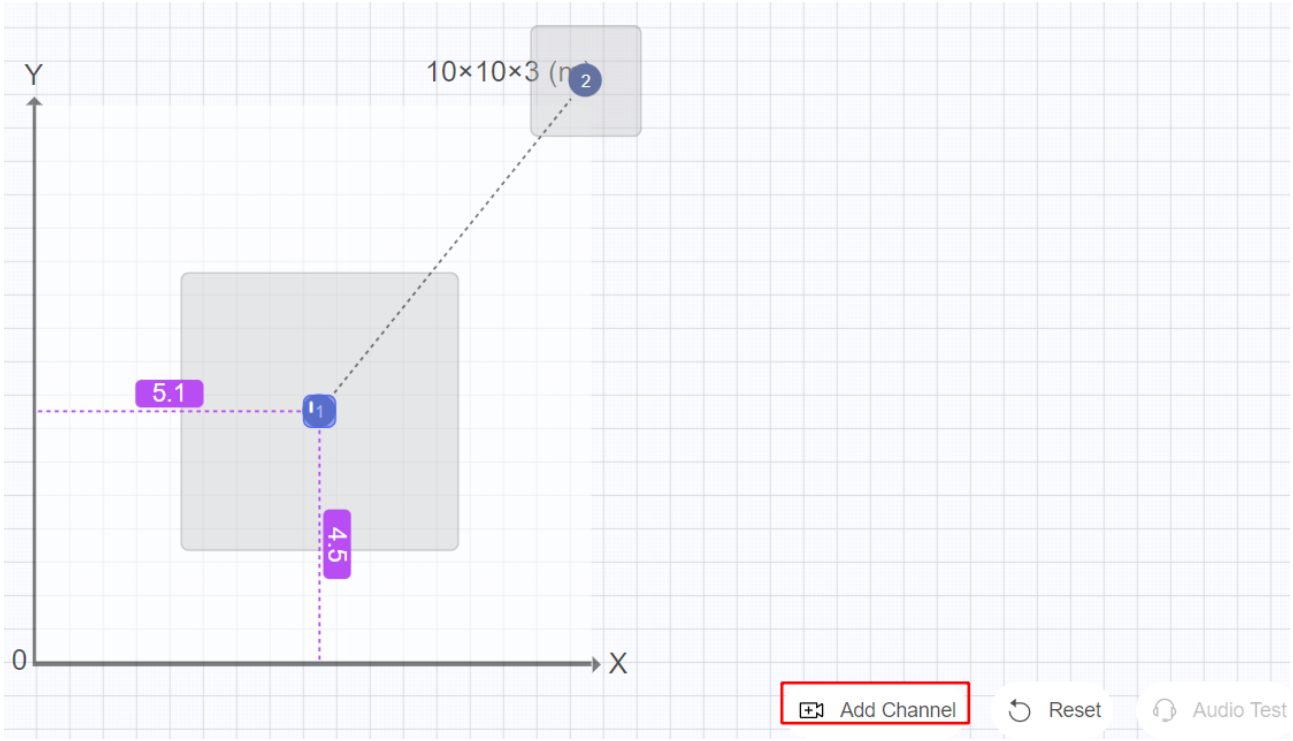


Figure 4-5 Add Channel

2. Click to select the channel area, and the area will be editable. Adjust the area size according to actual needs.

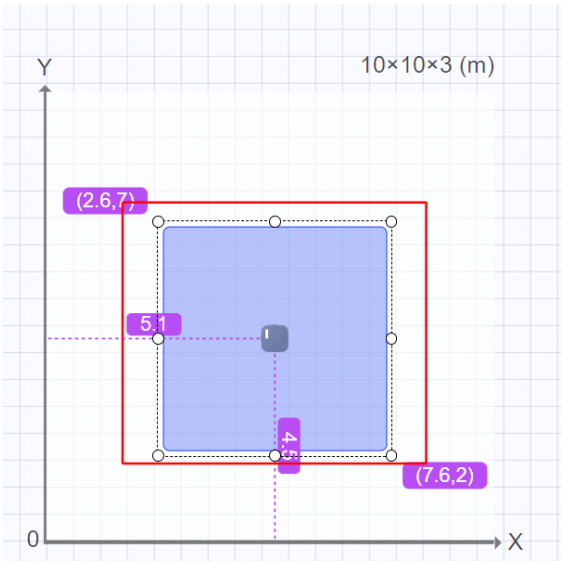


Figure 4-6 Adjust Area

3. Set **Gain** in the Device Configuration page. Configurable range: -100 to 20.
4. Enable or disable channel area mute according to needs in Device Configuration page.

Note

- By default, there is one channel, at least one channel, and up to 8 channels can be added.
- Channel area of the same device cannot overlap.

- Select the unwanted channel and click **Delete Channel**.

4.3.2 Beam Width Configuration

Description

This function is only supported by some devices. Please refer to actual devices for details

Steps

1. Select the beam icon device in the drawing plate.

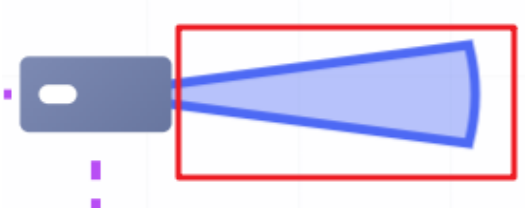


Figure 4-7 Beam Icon

2. Set the beam width in the Device Configuration page. The range is 0 to 180°, and the step is 4°.

4.3.3 More Functions

Note

Only certain models support the following functions.

Table 4-2 More Function Description

Operation	Description
Edit Room Dimensions	Enter the room dimension information in the Room Settings page.
Edit Image	• If the image is added, click **Edit Image** in the Room Settings page. Select the image, drag and drop the image to adjust the position in the drawing plate. Click ○ in the upper-left corner of the image or enter **Rotation Degree** to adjust the angle of the image. Click any position to exit editing status. • Drag the transparency bar in the Room Settings page to edit the image transparency. By default, the transparency is 80%.
Delete Image	If the image has been added, you can click **Delete Image** in the Room Settings page.
Add Image	If no image is added, click **Add Image** in the Room Settings page, click **Add** in the pop-up page, select the image to be added, and click

Operation	Description
	OK.
Rotate Device	● Method 1: Select the device, and enter **Rotation Degree** the Device Configuration page. ● Method 2: Select the device and click ○ in the upper-left corner of the image to rotate the device. ● Method 3: Select the device, and click **Rotate Device** in the lower-right corner of the drawing plate. Each time you click, the device will rotate 15° clockwise.
Set Device	Double-click the device in the drawing plate or click **Configuration** in Device Configuration page to enter the System Configuration page. You can set the device parameters. See ***Chapter 5 System Configuration*** for details.
Identify Device	In the Device Configuration page, click **Identify Device**, and the device light will flash white 10 times.
Reset	Click **Reset** in the lower-right corner of the drawing plate and click **OK**. All settings in the Coverage Area Mapping page will be restored to default settings. Click ***OK***.
Adjust Drawing Plate Ratio	● Method 1: Slide the mouse wheel to zoom in or out the ratio. ● Method 2: Click the icon in the lower-left corner of the drawing plate to adjust. - ⊕: Zoom in. - ⊖: Zoom out. - ⛶: Adaptive.

Chapter 5 System Configuration

In the System Configuration page, You can view PTP status, set device function, import/export device parameters, set audio algorithm parameters, etc.
Enter the System Configuration page by:

- Method 1: Click in the Operation column in the Device List area in the Device Management page.
- Method 2: In the created room, double-click the device in the drawing plate, or click **Configuration** in the Device Attributes page.

5.1 View PTP Status

Hover the mouse over in the top-left corner of the page, you can check PTP (Precision Time Protocol) status, including device information, main and sub information, status (lock/unlock) and IP address, and set PTP parameters

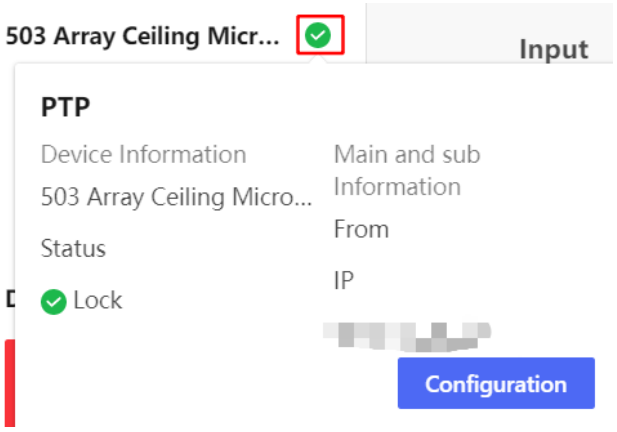


Figure 5-1 PTP

5.2 Set Device Function

Note

The setting parameters vary with device models. Please refer to actual devices for details.

Mute: Enable/Disable

Click to enable or disable mute function.

Identify Device

Click **Identify Device**, and the device light will flash white 10 times.

Quick Application

Click **Quick Application** to add the IP address of the 128MIC array microphone to be controlled. The added array microphone will remain silent.

Beam Settings

Click **Beam Settings** to set the beam width, ranging from 0 to 180°, and the step is 4°.
Some devices can set polar angle, i.e., the angle between the center of the beam and the center line of the beam. Some devices can also set cascading mode, edit status by hovering over them or listening, and set installation height, listening height, and listening distance, etc.

Speaker Test

Click **Speaker Test**, select **Test Audio Source** and **Test Speaker**, and click **Test** to start the test. Click **Stop Testing** to end the test.

Switch to Professional/Normal Mode

Click to switch parameter configuration mode to professional mode or normal mode. The configuration parameters in professional mode and normal mode are slightly different.

5.3 Parameter Processing

Export Parameter

Click **Export Parameter** to export configuration parameter information.

Import Parameter

Click **Import Parameter** to import configuration parameters in a batch.

Reset

Click **Reset** to restore the default settings.

5.4 Parameter Settings

Note

The setting parameters vary with device models. Please refer to actual devices for details.

Table 5-1 Parameter Description

Parameter	Description
COMP	Compressor is used to compress signal output range and protect rear-level circuit. You can set **Threshold, Ratio, Start Time,** and **Release Time** according to actual needs.
Delay	Delay is used to increase the delay time of signal output. You can set **Delay Time** according to actual needs.
ALC	ALC is used to linearly adjust signal output volume. You can set **Gain** according to actual needs.
Post-ALC	Post-ALC is used to linearly adjust signal output volume. You can set **Gain** according to actual needs.
Pre-ALC	Pre-ALC is used to linearly adjust signal output volume. You can set **Gain** according to actual needs.
PEQ	High- and low-pass filter, high- and low-shelf filter, and peak filter support adjusting output signal frequency, bandwidth, and amplitude.
NOISE GATE	Noise gate is used to adjust output signal noise threshold. You can set **Threshold, Start Time,** and **Release Time** according to actual needs.
HPF	High-pass filter is used to filter out low-frequency interference.
LPF	Low-pass filter is used to filter out high-frequency interference.
H-Shelf	High-shelf filter is used to boost or cut the signal amplitude when it is higher than set frequency point.
L-Shelf	Low-Shelf filter is used to boost or cut the signal amplitude when it is lower than set frequency point.
Notch Filter	Notch filter is a filter with controllable center frequency point, bandwidth, and quality factor. You can set **Frequency Point, Bandwidth,** and **Gain** according to actual needs.
Analog Input Level	Analog signal input level. Select the level according to actual needs.
Analog Output Level	Analog signal output level. Select the level according to actual needs.
MIC	Array microphone input. You can set **Gain** according to actual needs.
AEC REF	You can set **Linein-Ref, AES67 IN-Ref**, and **Gain** according to actual needs.
ANS	You can set **Noise Reduction Level** according to actual needs.
Digital	Digital signal supports setting **Sampling Rate, Bit Width, Encoding Format,** and **Bit Rate** according to actual needs.
HS	Howling suppression supports setting **Suppression Mode, Suppression Capability, Suppression Time,** and **Number of**

Parameter	Description
	Suppression Filters according to actual needs.
AGC	Auto gain control is used to control the gain of output signal. You can set **Sampling Rate, Bit Width, Encoding Format,** and **Bit Rate** according to actual needs.
Output Source	Select the source of output signal according to actual needs.
AEC	Echo cancellation is used for two-way audio scene. You can set **Length, Non-Linear Level**, and **Echo Delay** according to actual needs. AEC and AFC cannot be enabled at the same time.
AFC	Feedback cancellation is used for sound reinforcement scene. You can set **Length** and **Order** according to actual needs. AEC and AFC cannot be enabled at the same time.
Built-in NNR	Internal non-steady noise reduction.
EXP	You can set **Threshold, Ratio, Compression Rate, Start Time, Release Time, Gain,** and **Speed** according to actual needs.
MUTE	Enable or disable the function according to actual needs.
Phantom Power	Enable or disable the function according to actual needs. After enabling, the analog audio input interface of the device supports phantom power.
Maximum Open Channels	The maximum number of channels for the mixing output.
Enable the Last Connected Microphone	Enable or disable the function according to actual needs. After enabling, if the energy of all microphones is low, only the last connected microphone will be accessed.
Disable Attenuation	Fix the energy of the attenuation.
Sensitivity	Detect the input energy level of the channel. If it is greater than the set sensitivity, no attenuation is applied. If it is less than the set sensitivity, attenuation is applied.
Hold Time	The effective window time of internal detection logic.

Chapter 6 Network Configuration

Introduce the configuration method of network parameters.

Click ⚙ in the Operation column in the Device List area in the Device Management page.

6.1 Set TCP/IP Parameters

Set TCP/IP parameters of the device to enable it to work normally.
Go to **Configuration → Network → Network Configuration → TCP/IP** to set parameters, and click **Save**.

IPv4 Address

Manually enter **IPv4 Address**, **IPv4 Subnet Mask**, **IPv4 Default Gateway** and other LAN parameters.

DNS Server Settings

After setting the correct available DNS server address, the device can be accessed by domain name.

6.2 Set HTTP(S)

HTTP(S) parameters include HTTP port and HTTPS port. Set corresponding port as needed.
Go to **Configuration → Network → Network Service → HTTP(S)** to set parameters, and click **Save**.

HTTP Port

When you log in with a browser, you need to add the modified port number after the address. If HTTP port No. is changed to 81, you can enter http://192.0.0.65:81 when you log in via browser.

HTTPS Port

Configure HTTPS port for browser access, and certificate verification is required.

6.3 Set RTSPs

RTSP (Real Time Streaming Protocol) is an application-layer controlling protocol for streaming media.

Steps

1. Go to **Configuration → Network → Network Service → RTSP**.
2. Enter **Port**.
3. Click **Save**.

6.4 WebSocket(s)

WebSocket or WebSockets protocol should be enabled if you use Google Chrome 57 and its above version or Mozilla Firefox 52 and its above version to visit the device. Otherwise, live view, image capture, digital zoom, etc. cannot be used.

Go to **Configuration** → **Network** → **Network Service** → **WebSocket(s)** to set parameters, and click **Save**.

WebSocket

TCP-based full-duplex communication protocol port for plug-in free preview via HTTP protocol.

WebSockets

TCP-based full-duplex communication protocol port for plug-in free preview via HTTPS protocol.

Chapter 7 System and Security

It introduces system maintenance, system settings and security management, and explains how to configure relevant parameters.

Click ⚙ in the Operation column in the Device List area in the Device Management page.

7.1 System Configuration

7.1.1 View Device Information

You can view device information, such as Device Model, Serial No. and Firmware Version, etc.

Go to **Configuration** → **System** → **System Configuration** → **Basic Information** to view the device information.

Note

Device Name can be customized according to needs.

7.1.2 Set Time

You can configure time and date of the device by configuring time zone and time synchronization

Set NTP Server

You can use NTP server when accurate and reliable time source is required.

Before You Start

Set up a NTP server or obtain NTP server information.

Steps

1. Go to **Configuration** → **System** → **System Configuration** → **Time Settings**.
2. Select **Time Zone**.
3. Click **NTP Sync**.
4. Set **Server IP Address**, **NTP Port** and **Interval**.

   Note

   Server IP Address is NTP server IP address.

5. Click **Save**.

Synchronize Time Manually

It is used to set device time manually, or to set device time to sync with current computer time.

Steps

1. Go to **Configuration** → **System** → **System Configuration** → **Time Settings**.
2. Select **Time Zone**.
3. Click **Manual Time Sync.**
4. Choose one time synchronization method.
   - Select **Set Time**, and manually input or select date and time from the pop-up calendar.
   - Check **Sync With Computer Time** to synchronize the time of the device with that of the local PC.
5. Click **Save**.

7.1.3 Set System Service

Go to **Configuration** → **System** → **System Configuration** → **System Service**.
Enable/disable LED indicator light according to needs, select **Device Delay**, and click **Save**.

Note

Identify Device function is still supported if the LED indicator light is disabled.

7.1.4 Reset Password

Go to **Configuration** → **User Management**, click and enter the old password and new password to reset.

Note

- When resetting admin user password, make sure the device and computer are on the same LAN.
- The reset mode of the device is dependent on the model. Please refer to the actual device for details.
- If resetting device password failed, please contact local after-sales service center, or contact technical support for more help.

7.2 System Maintenance

Provide device log search, reboot, upgrade, backup, and debug settings.

7.2.1 Restart

You can restart the device via the client.

Go to **Maintenance and Security** → **System Maintenance** → **Restart**, and click **Restart**.

7.2.2 Upgrade

Before You Start

You need to obtain the correct upgrade package.

Caution

DO NOT disconnect power during the process, and the device reboots automatically after upgrade.

Steps

1. Go to **Maintenance and Security** → **System Maintenance** → **Upgrade**.
2. Click 🗀 to select the upgrade file.
3. Click **Upgrade**.

What to do Next

Go to **Configuration** → **System** → **System Configuration** → **Basic Information** to check if the version is updated.

7.2.3 Restore and Default

Restore and Default helps restore the device parameters to the default settings.

Steps

1. Go to **Maintenance and Security** → **System Maintenance** → **Backup and Restore**.
2. Click **Restore Default** or **Restore Factory** according to your needs.

Restore Default	All data except network parameters and user accounts will be cleared.
Restore Factory	All functions and parameters will be restored to factory settings.

Note

Be careful when using this function. After resetting to the factory default, all the parameters are reset to the default settings.

7.2.4 Import/Export Configuration File

It helps speed up batch configuration on other devices with the same parameters.

Steps

1. Export configuration file.
   1) Go to **Maintenance and Security** → **System Maintenance** → **Backup and Restore** → **Backup**.
   2) Click **Export** and input the encryption password to export the current configuration file.
   3) Set the saving path to save the configuration file in local computer.
2. Import configuration file.
   1) Access the device that needs to be configured.
   2) Go to **Maintenance and Security** → **System Maintenance** → **Backup and Restore** → **Default**.
   3) Click 🗀 to select the saved configuration file.
   4) Input the encryption password you have set when exporting the configuration file.
   5) Click **Import**.

7.2.5 Security Audit Log

The security audit logs refer to the security operation logs. You can search and analyze the security log files of the device so as to troubleshoot the security events.

Security audit logs can be saved on device internal storage. The log will be saved every half hour after device booting. Due to limited storage space, you can also save the logs on a log server.

Search Security Audit Logs

You can search and analyze the security log files of the device so as to troubleshoot the security events.

Steps

> **Note**
>
> This function is only supported by certain models.

1. Go to **Maintenance and Security** → **System Maintenance** → **Security Audit Log**.
2. Select log types, **Start Time**, and **End Time**.
3. Click **Search**.
   The log files that match the search conditions will be displayed on the Log List.
4. Optional: Click **Export** to save the log files to your computer.

Set Log Server

Uploading and storing security logs to the log server.

Before You Start

Get the IP address and port of the log server.

Steps

1. Click **Advanced Configuration**.
2. Check **Enable Log Upload Server**.
3. Optional: Check **Enable Encrypted Transmission** if you want the log data to be encrypted.
4. Input **Log Server Address** and **Log Server Port**.
5. Click **Save**.

7.2.6 Set SSH Parameters

Secure Shell (SSH) is a cryptographic network protocol for operating network services over an unsecured network.

Go to **Maintenance and Security** → **System Maintenance** → **Device Debugging**, and Check **Enable SSH**.

Caution

Use the function with caution. The security risk of device internal information leakage exists when the function is enabled.

7.2.7 Export Diagnosis Information

Exported device running status diagnosis information, including running log, system information, hardware information, etc.
By *maintenance and security* → *system maintenance* → *device debugging*, click Export to export device diagnosis information in the diagnostics information module.
Diagnose information includes running log, system information, hardware information.

Go to **Maintenance and Security** → **System Maintenance** → **Device Debugging** → **Diagnose Information**. Click **Export** to export diagnose information of the device.

7.2.8 Microphone Exception Detection

Detecting microphone status.
Go to **Maintenance and Security** → **System Maintenance** → **Microphone Exception Detection**,

click **Detect** to view the detection results.

7.2.9 Original Data Record

The device's built-in storage disk can store audio files when no MicroSD card is installed or the installed MicroSD card is abnormal.

Steps

1. Go to **Maintenance and Security** → **System Maintenance** → **Raw Data Recording**.
2. Select to record to EMMC or USB.
3. Select **Data Type**.
4. Click **Start Recording**.
5. (Optional) Edit path according to needs.
6. Click **Stop Recording**.
7. Select one or more folders to download audio files in a batch.

7.3 Manage Device User

7.3.1 Illegal Login Lock

It helps to improve the security when accessing the device via Internet.
Go to **Maintenance and Security** → **Security** → **Login Management**, and enable **Enable Illegal Login Lock**. **Illegal Login Attempts** and **Locking Duration** are configurable.

Illegal Login Attempts

When your login attempts with the wrong password reach the set times, the device is locked.

Locking Duration

The device releases the lock after the setting duration.

Chapter 8 Task Center

When applying parameters in batch via service module, the user will automatically generate a task to enter task list. The user can check task execution progress and status in task list, and the task details in task list.

Floating Task Center

When task is applied, you can check task name and progress in the lower-right corner of the software. You can click **View Details**, **Pause**, and **Delete** to perform operations.

Task List

Click to **View More** or click **Task Center** to enter task list.
You can check the configuration progress, device information, configuration content, etc. of each task, and perform the following operations.

Table 8-1 Operations of In Progress Task List

Operation	Description
Pause/Start Task	In the Operation column, click ⏸/▶ to pause/start the task.
Delete Task	In the Operation column, click 🗑 to delete the task.
Start All	Click **Start All** to start all paused tasks.
Pause All	Click **Pause All** to pause all the converting tasks.
Delete All	Click **Clear All** to clear all tasks.
Search Task	Enter the task name and click 🔍 to search for tasks.

Table 8-2 Operations of Complete Task List

Operation	Description
Filter by Configuration Status	In the Status column, click ▽ to filter according to the application progress.
View Failed Task Details	Move the cursor on the **Applying Failed** status, and click **View Details** to view the details in the prompt.
Edit Failed Task Information	For failed applications, you can move the cursor on the failed parameters in the task details to check error code and error message, and click **Edit** to edit the parameter.
Reapply	In task details, click ↻ of a single parameter to reapply the error data.

Operation	Description
Retry All Errors	In task details, click **Retry All Errors** to reapply all the corrected parameters.
Clear History	Click **Clear** to clear all task records.

Chapter 9 Report

In the report, you can view and export the device list of the project, which can be used to access the platform later, maintain devices, etc.

Click **Report** on the left to enter the report page.

You can view device information, including IP address, device type, device model, serial No., MAC address, HTTP port, and user name.

Click **Export Report** to export the device list.

Chapter 10 Help Center

You can switch language, set upgrade package application path, view user manual, enable auto detection, etc.

Click in the upper-right corner of the software to enter the help center.

System Configuration

Click Select Target Folder to save the downloaded software upgrade package.

User Manual

View user manual.

About

Click **Check for Updates** to detect the latest software version.
Enable **Auto Check** to auto detection software update.

Open Source Software Licenses

Click **Open Source Software Licenses** to view the license.

Software License Agreement

Click **Software License Agreement** to view the usage protocol.


See Far, Go Further