iSpeaker CM360

Dante Ceiling Microphone

Software User Manual V1.0

Table of Contents

PRECATIONS

- The computer used for configuration should be on the same local network with the **iSpeaker CM360** ceiling array microphone, Dante speakers, and Dante audio processor.
- Use a wired network connection during configuration to ensure stability.
- Pre-install the required software: Dante controller, INFOBIT iSpeaker Controller, Dante speaker configuration software, INFOBIT iSound DSP software etc.
- When deploying multiple **iSpeaker CM360** units in a cascaded configuration, each CM360 needs to be configured separately with its own parameters.
- During voice amplification scenario, the output volume of the **iSpeaker CM360** amplification channel should be adjusted to an appropriate level to avoid device damage.

1. SOFTWARE INTRODUCTION

The INFOBIT **iSpeaker Controller** software is used to manage and configure the **iSpeaker CM360** ceiling microphones. With this software, it is easy to adjust the pickup area of the meeting room, and technicians can easily design, deploy, and debug the network audio system consisting of accessories such as ceiling microphone, audio processor and Dante speakers through the user-friendly GUI.

The location of the pickup area and application configuration data of the device are generated and load to the ceiling microphone, through graphical interacted GUI, the gain, noise reduction, pickup, and mute/ unmute operations can be controlled directly.

Multiple **iSpeaker CM360** can be conpictured together for the large conference rooms. At the same time, it has the functions of rooms configuration management, device management, and firmware management. The **iSpeaker Controller** configuration tool is an application designed to simplify end-to-end workflows and enable intuitive layouts to improve overall deployment efficiency.

2. FUNCTIONS

- Manage the configuration of the **iSpeaker CM360** ceiling microphones.
- Application data configuration.
- Discover, firmware upgrade, deploy, and restart operations.
- Firmware management.

3. INSTALLATION

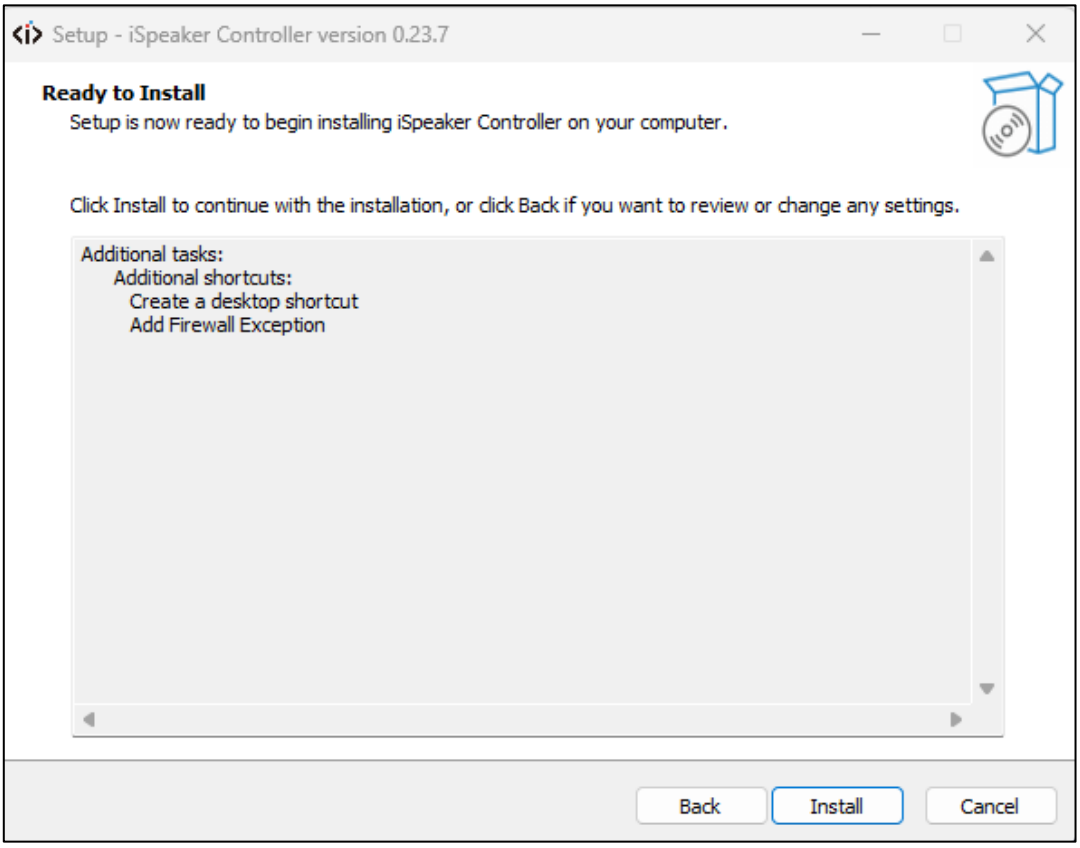
3.1 DOWANLOAD THE APPLICATION

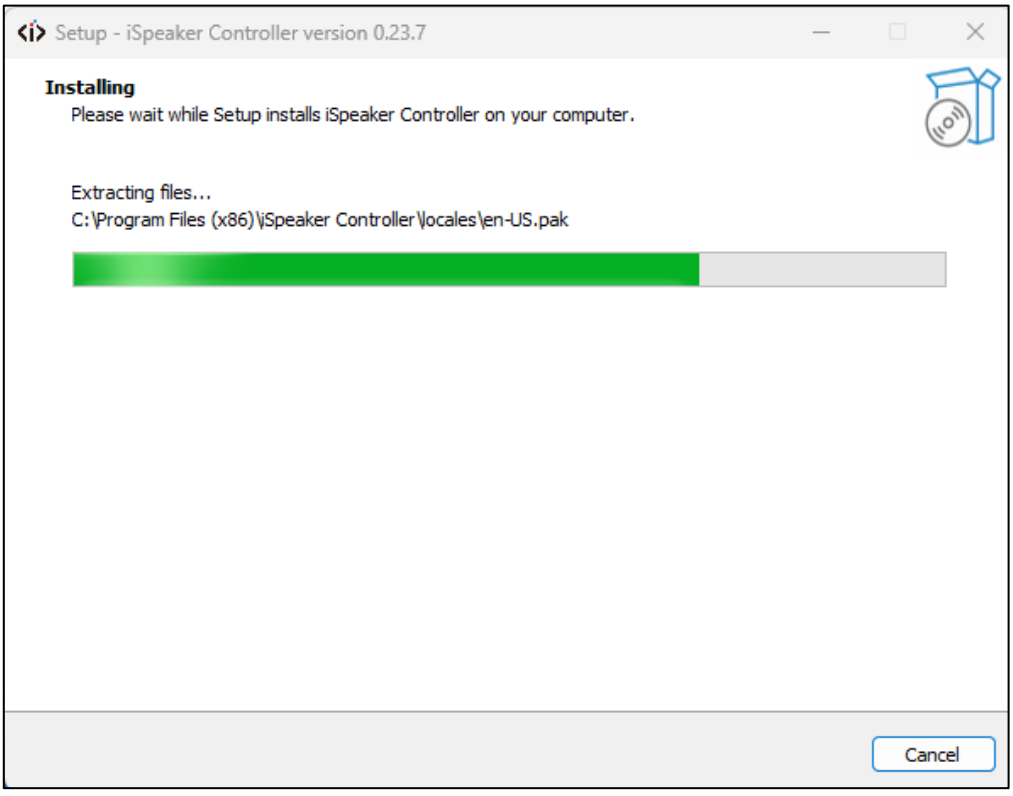
Please visit website www.infobitav.com/ispeaker-cm360 to download the installation file (iSpeaker Controller.v0.23.7.exe) to your Windows-based PC.

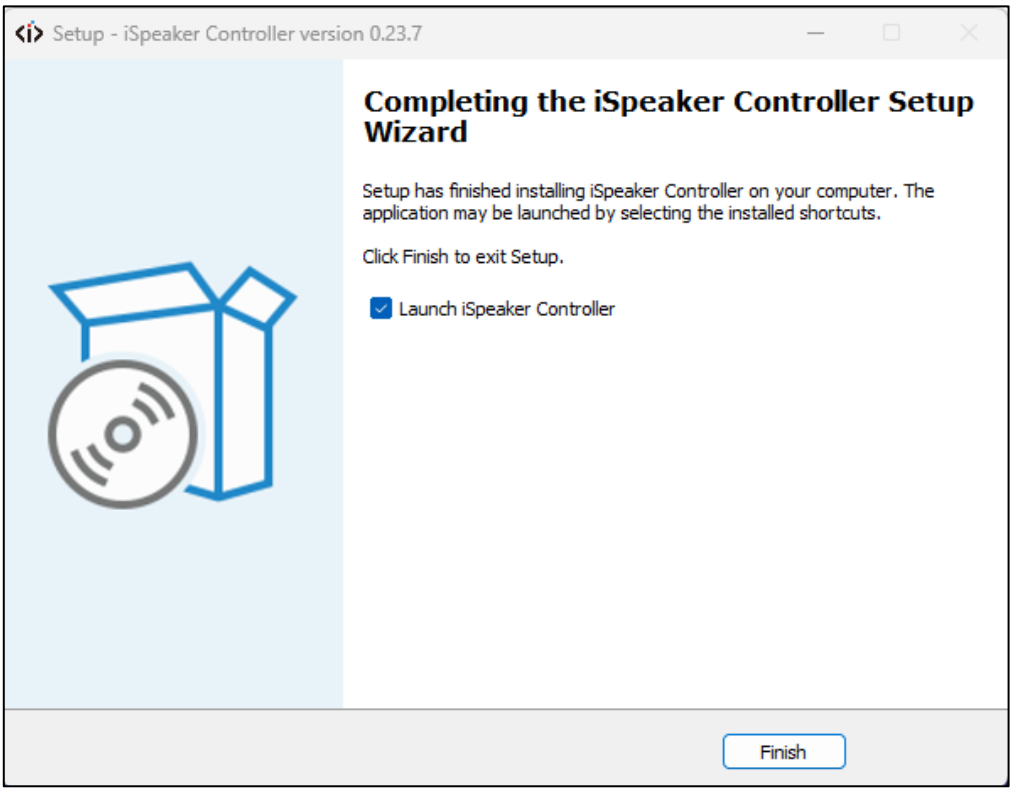
Note: The version maybe updated without prior notice on our website, please make sure to download the latest version from the above website or contact sales directly to request the software.

3.2 INSTALL THE APPLICATION

Double-click the installation file to run and install. See below picture:


Setup - iSpeaker Controller version 0.23.7
Ready to Install
Setup is now ready to begin installing iSpeaker Controller on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Additional tasks:
Additional shortcuts:
Create a desktop shortcut
Add Firewall Exception
Back
Install
Cancel

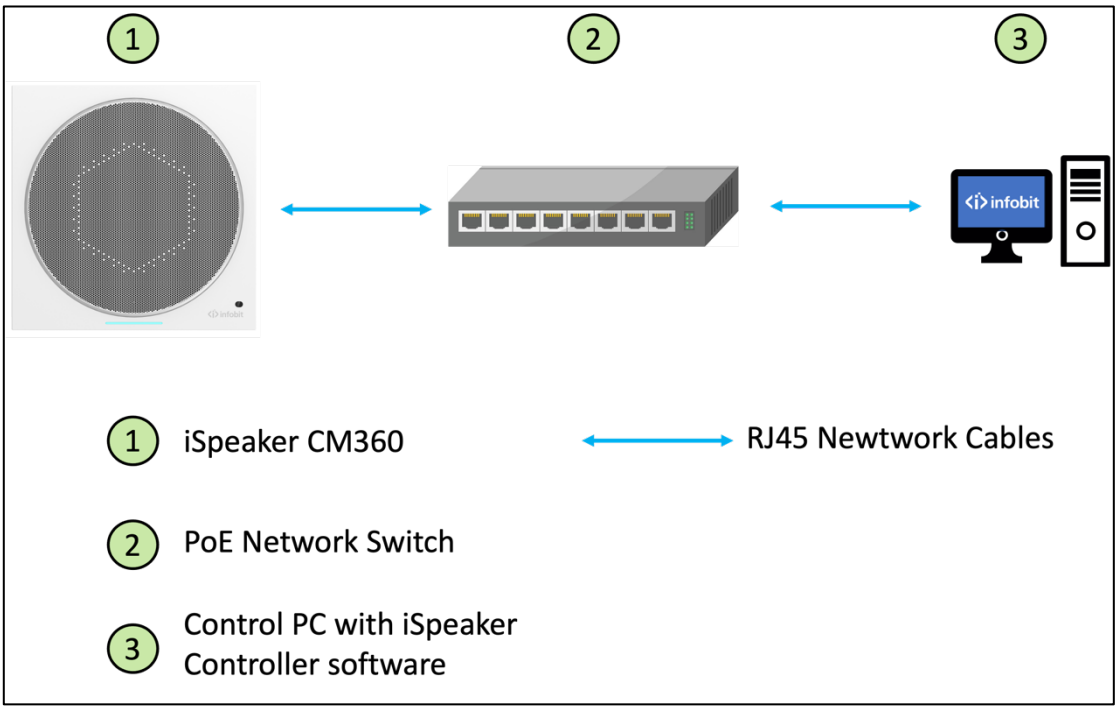

Setup - iSpeaker Controller version 0.23.7
Installing
Please wait while Setup installs iSpeaker Controller on your computer.
Extracting files...
C:\Program Files (x86)\iSpeaker Controller\locales\en-US.pak
Cancel



Check “Lauch iSpeaker Controller” box and click “Finish” to run the software. Or double-click the shortcut icon on your desktop to run directly. See below picture:

3.3 CONNECTION

Before configuring in the software, the user shall follow below connection to make sure the PC and the **iSpeaker CM360** are all connected to PoE switch and under the same subnet domain. (The **iSpeaker CM360** is default with DHCP enabled).



4. SOFTWARE INSTRUCTIONS

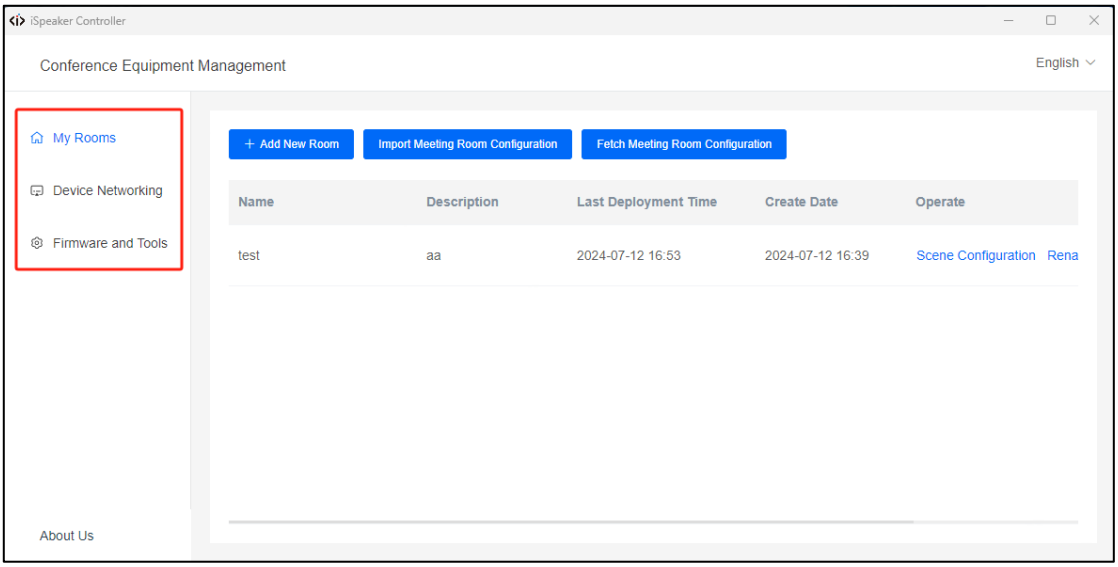
4.1 ROOM MANAGEMENT

The left side is the system menu bar, which contains “My Rooms”, “Device Networking”, “Firmware and Tools” and others, as shown in picture 4-1-1.

“My Rooms” supports the creation and configuration of meeting rooms.

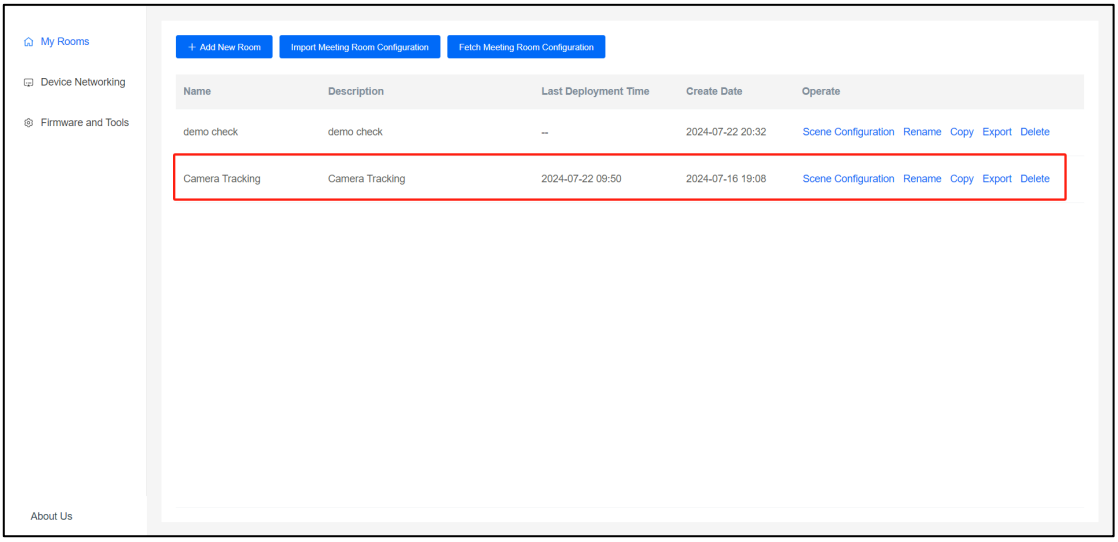
“Device Networking” supports device discovery and connection.

“Firmware and Tools” supports firmware upgrade and tools management.



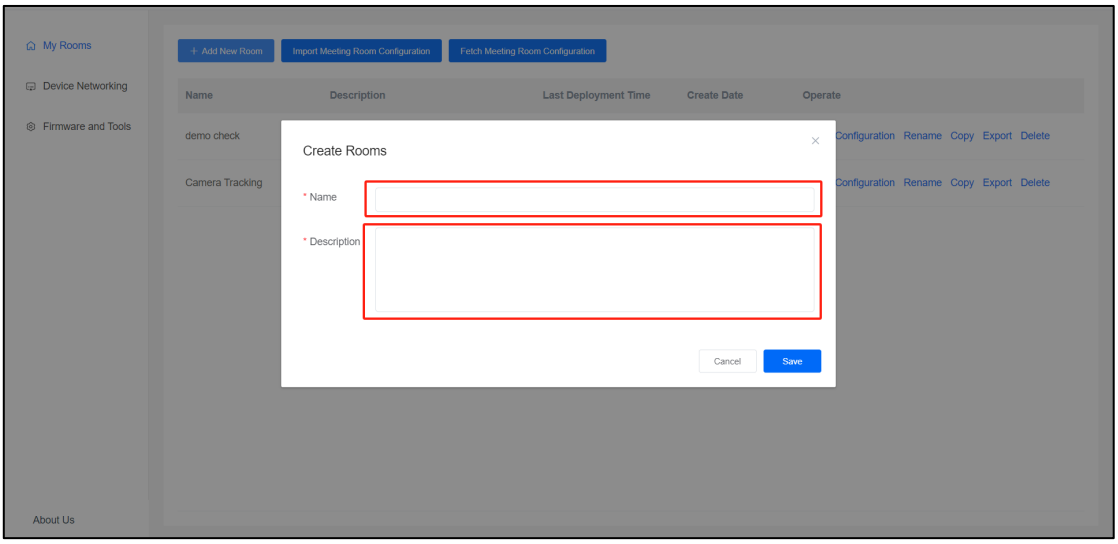
picture 4-1-1

Click **My Rooms**, you can view the configured rooms list, including the room name, description, created time and others, also support to import or export the existing room configuration. As shown in picture 4-1-2:



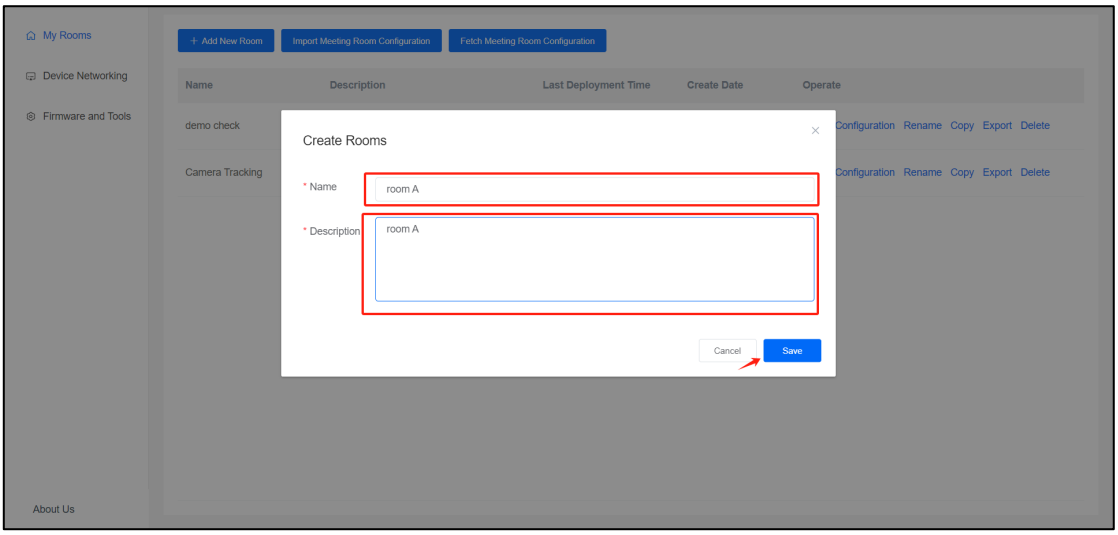
picture 4-1-2

Click "**Add New Room**" to create a ROOM, and enter the room name and description, as shown in picture 4-1-3;



picture 3-1-3

Click “**Rename”** to modify the ROOM information, as shown in picture 4-1-4.



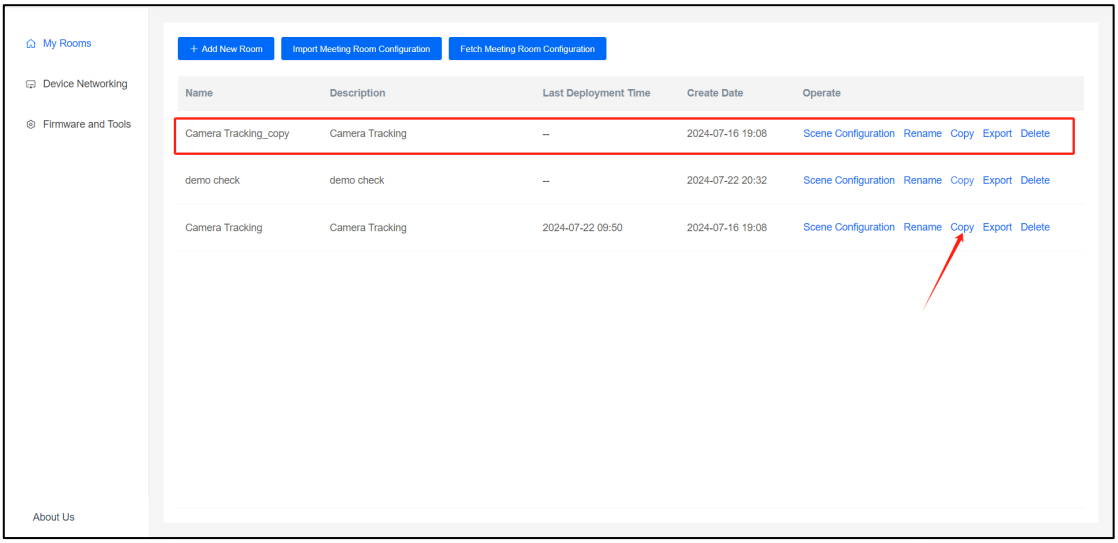
picture 4-1-4

Click “**Copy”**, the relevant data of the current conference room will be copied and shown in the first row, as shown in picture 4-1-5.

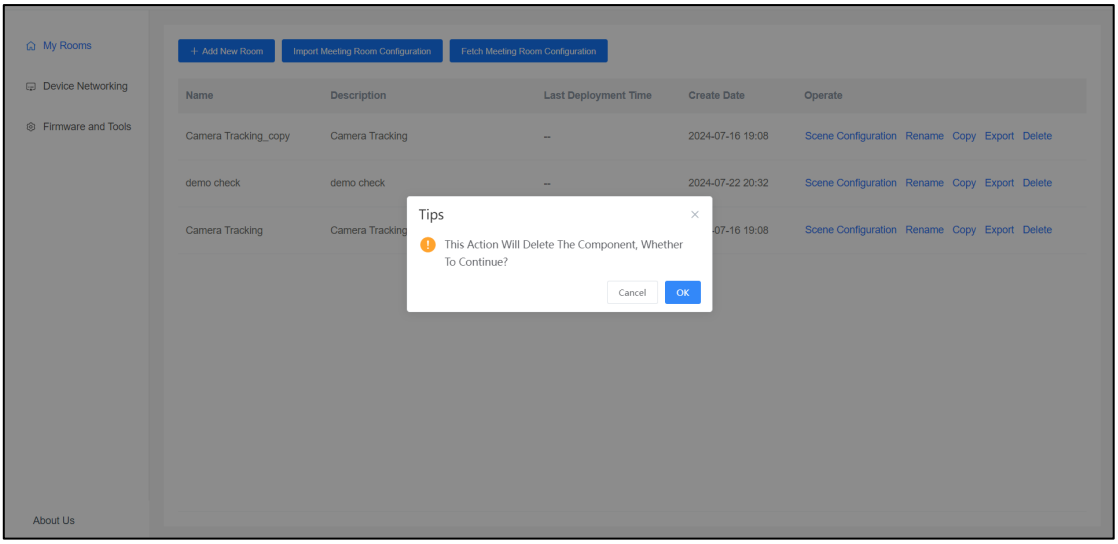
Click **“Delete”** to remove the current data, as shown in picture 4-1-6.

Click **“Export”** to export the configuration information as a separated file to local PC, as shown in picture 4-1-7.

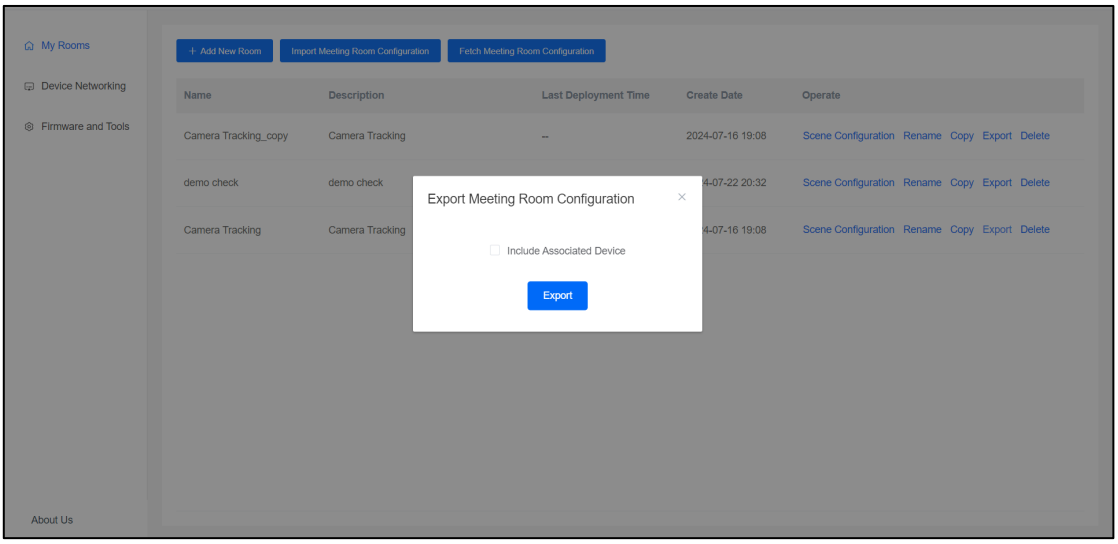
Click **“Scene Configuration”** to config the room.



picture 4-1-5



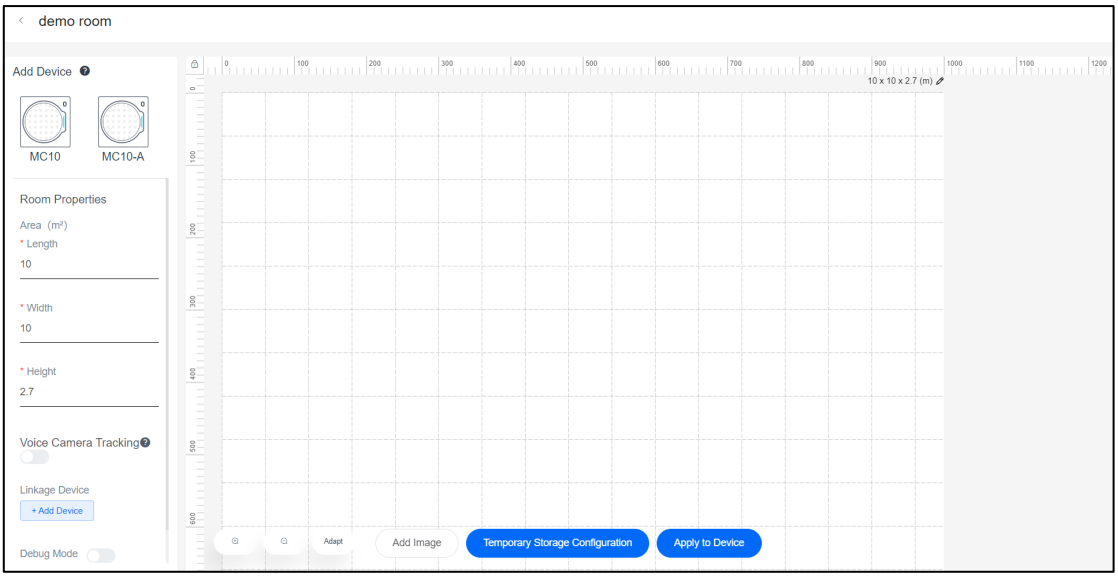
picture 4-1-6



picture 4-1-7

4.2 ROOM CONFIGURATION

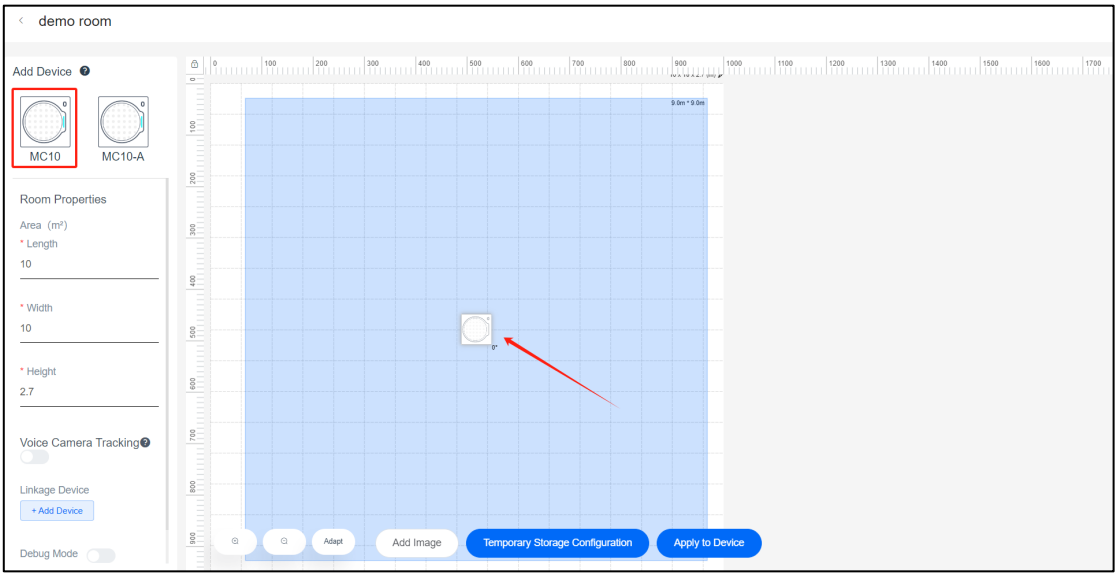
The left side is the properties area, and the right side is the canvas area, as shown in picture 4-2-1:



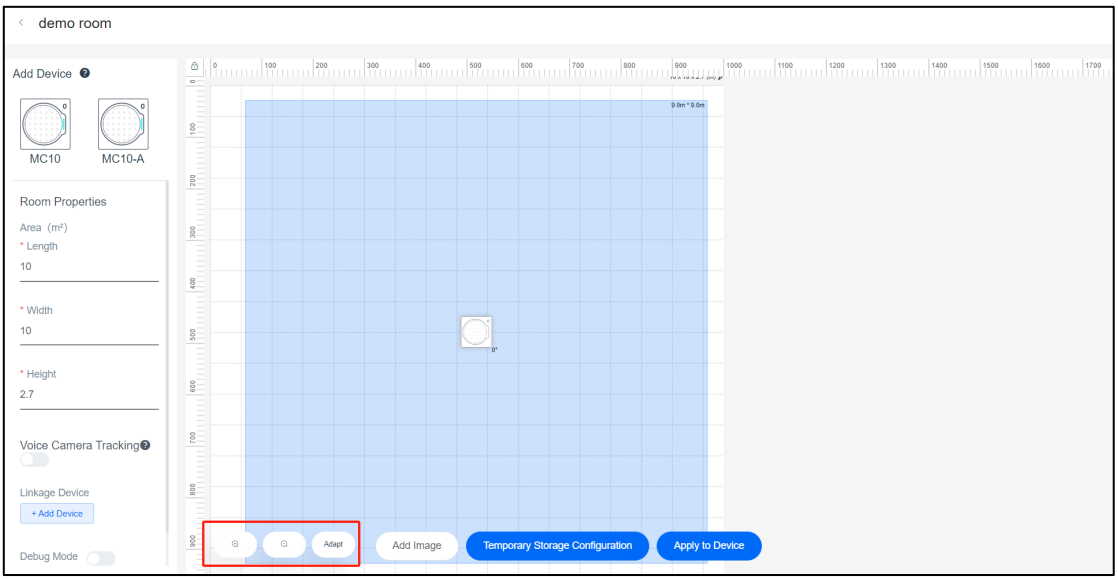
picture 3-2-1

You can drag the CM360 icon to the right area to generate the default microphone and pickup area.

Below is the function buttons, which can scale the canvas area, as shown in picture 4-2-2 and 4-2-3.

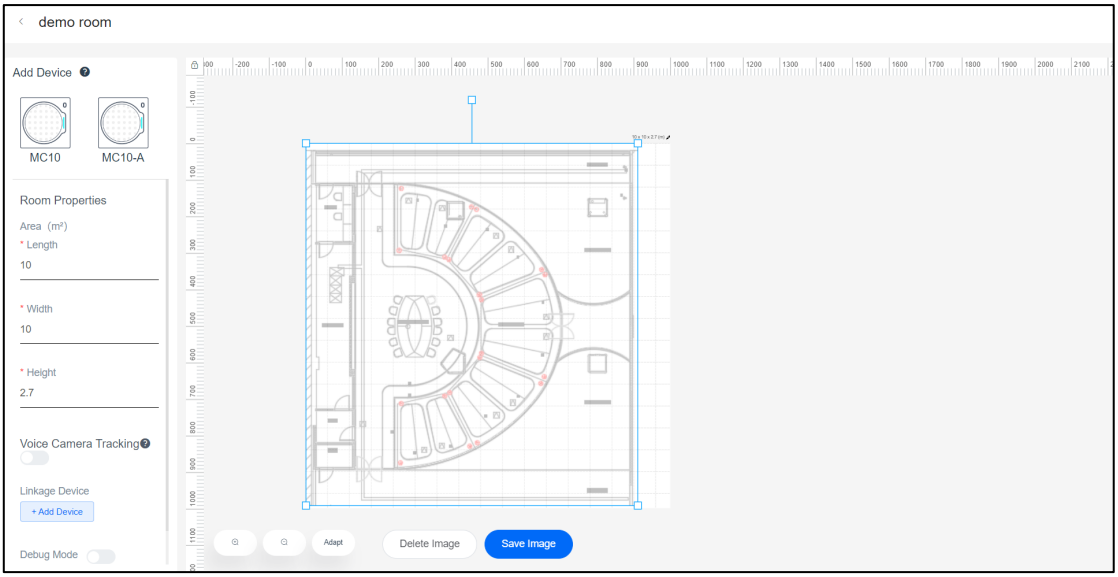


picture 4-2-2



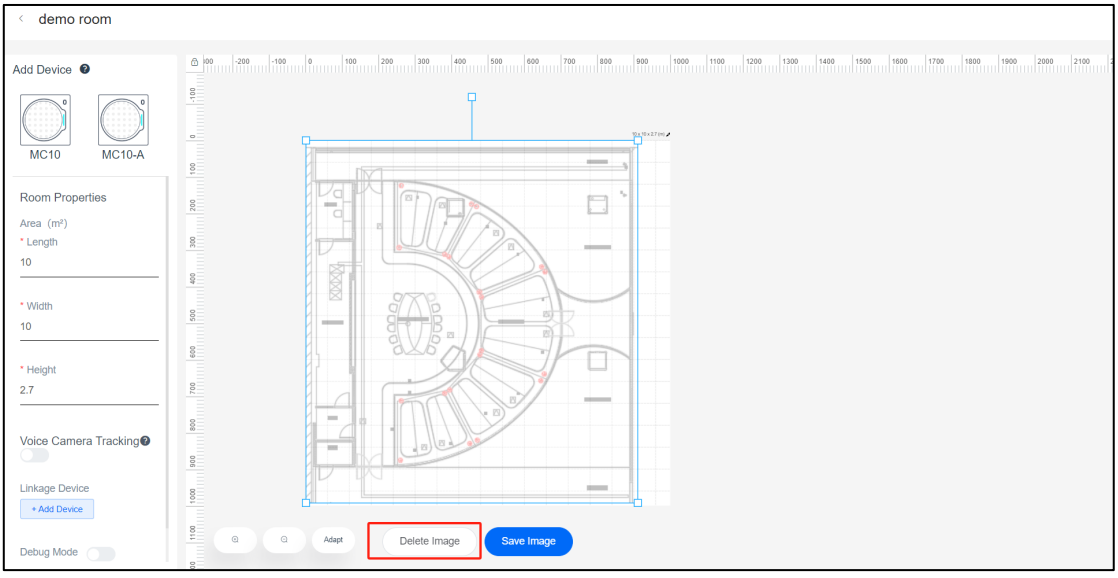
picture 4-2-3

Click **“Add Image”** to select and import an image from the PC, as shown in picture 4-2-4.



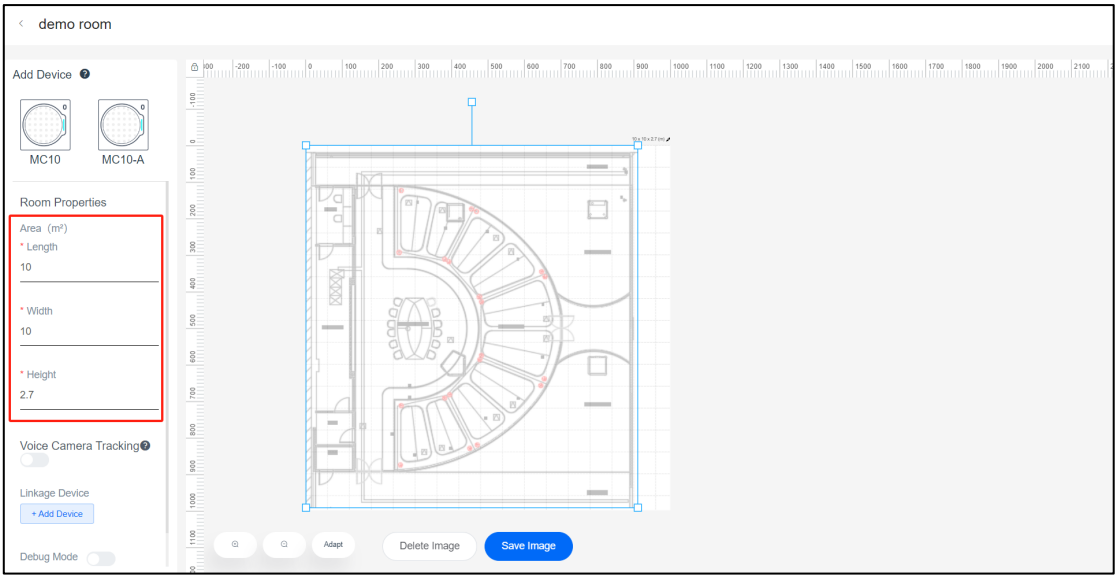
picture 4-2-4

Click **“Delete Image”** to clear the background, as shown in picture 4-2-5.



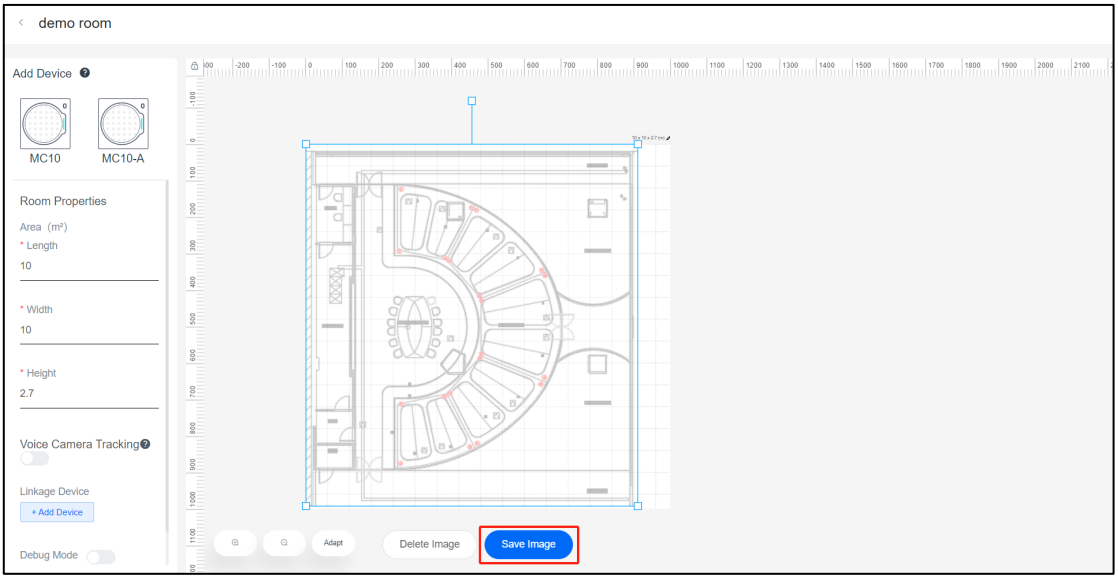
picture 4-2-5

The left side of the workspace can adjust the room properties and change the room size; You can also edit the size of the picture, as shown in picture 4-2-6.

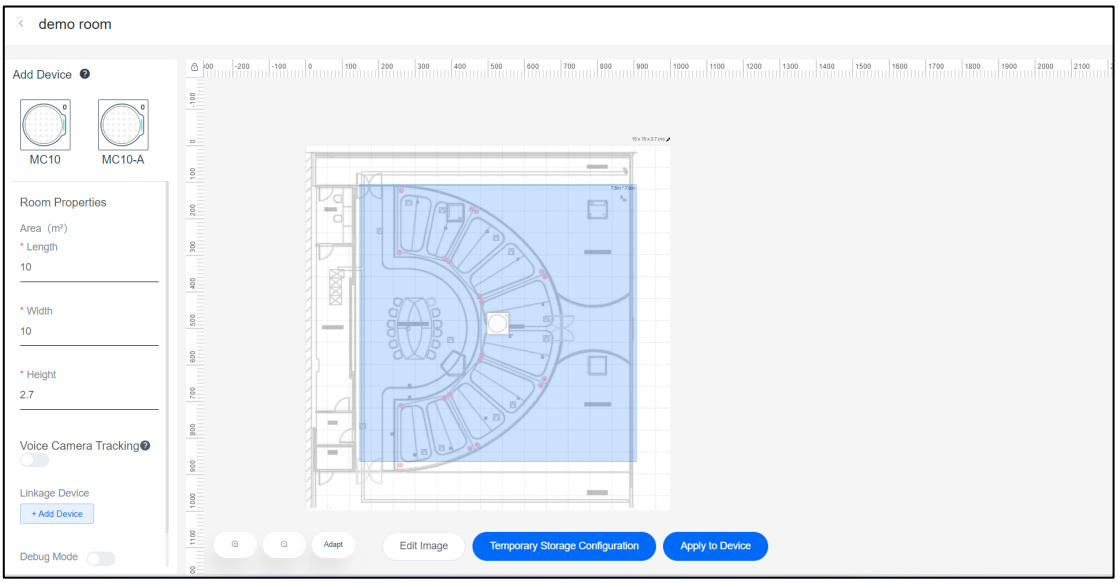


picture 4-2-6

Click **“Save Image”** to complete the background setting, as shown in picture 4-2-7 and 4-2-8.

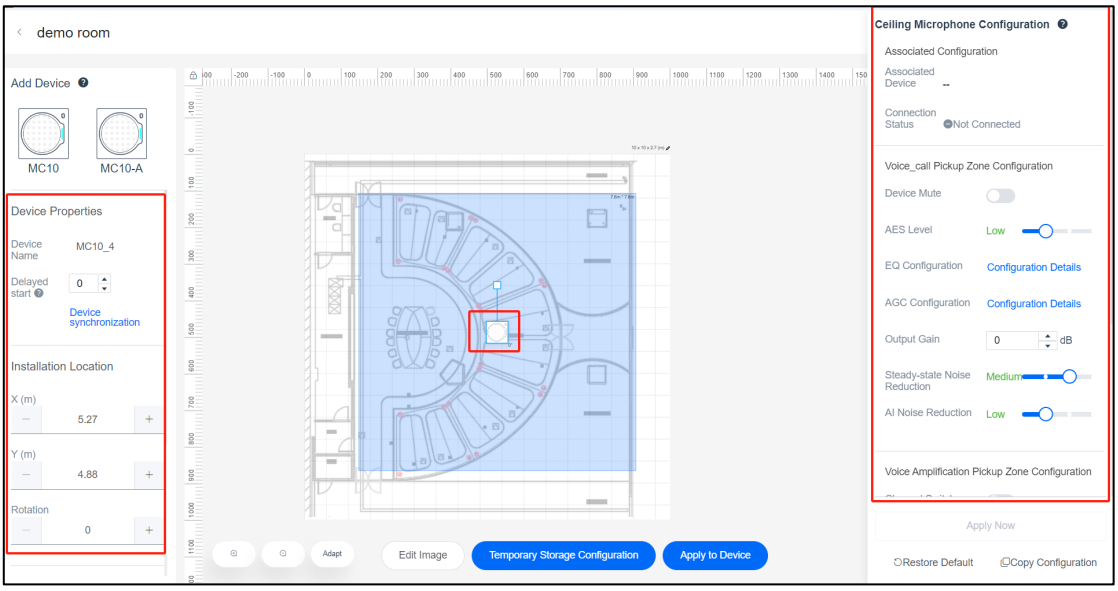


picture 4-2-7



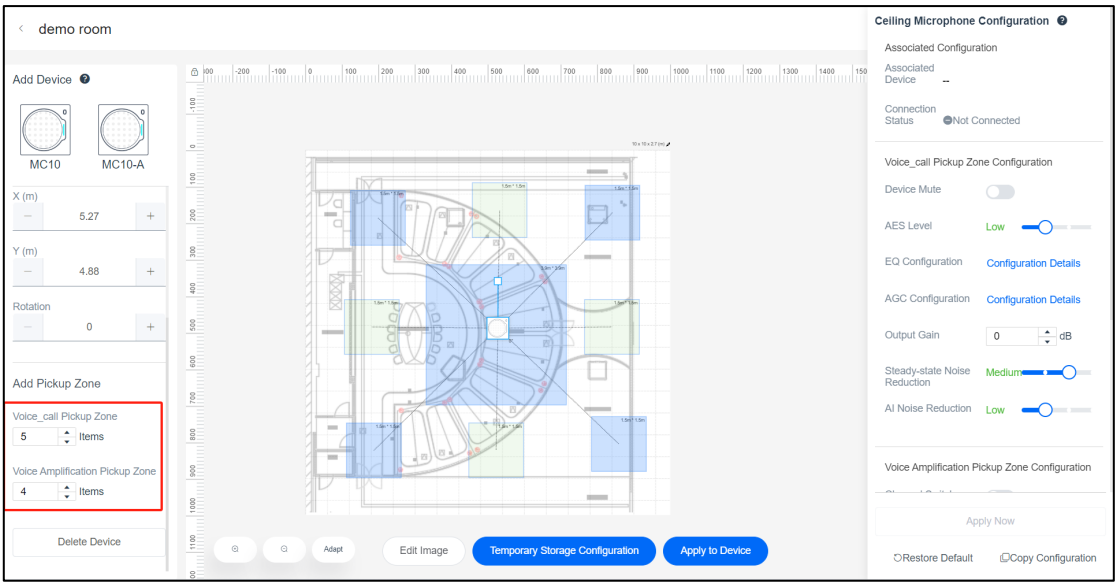
picture 4-2-8

Click the CM360 icon in the canvas area, the position and angle of the ceiling microphone can be configured on the left, and the prosperities of the ceiling microphone can be configured on the right, as shown in picture 4-2-9.



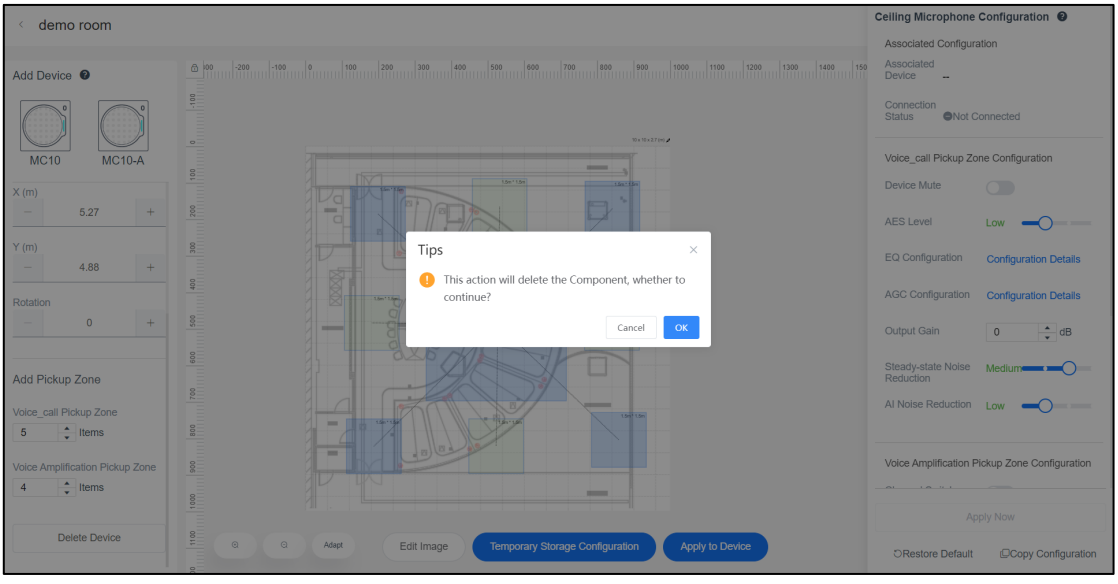
picture 4-2-9

Click the lower left side **“Add Pickup Zone”** to add the pickup zones, as shown in picture 4-2-10.



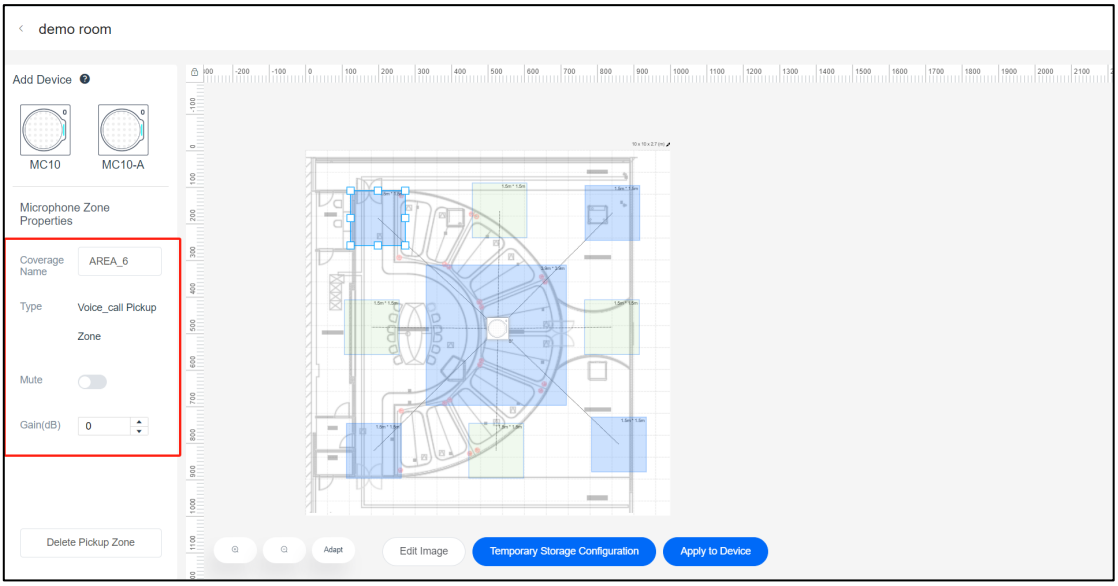
picture 4-2-10

Click **“Delete Device”** to delete all the added microphone and associated pickup zones, as shown in picture 4-2-11.



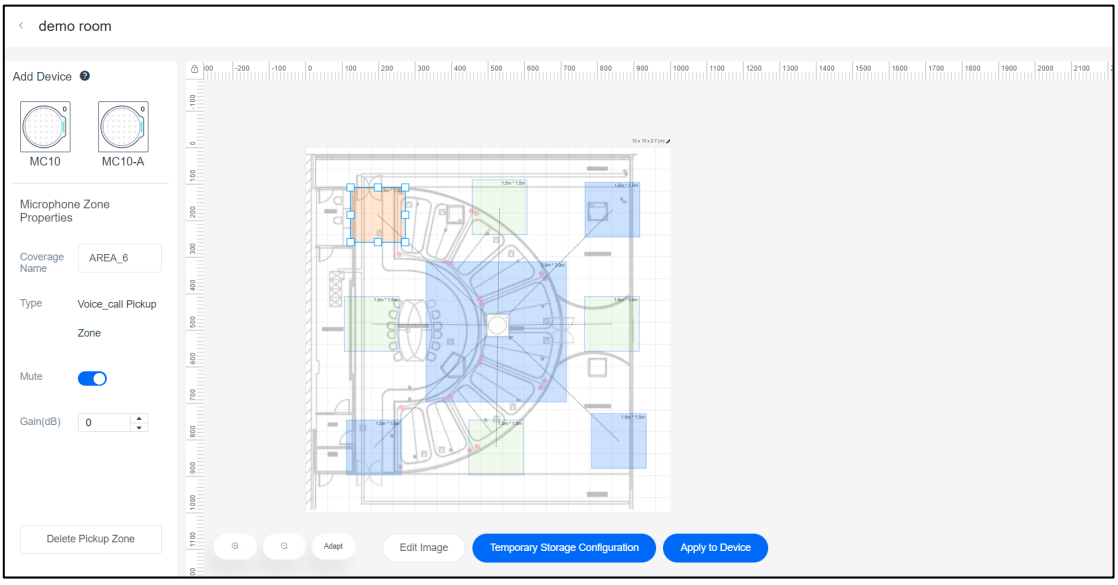
picture 4-2-11

Click any pickup zone, the configuration property of the current pickup area is displayed on the left side, and you can change the configuration, as shown in picture 4-2-12.



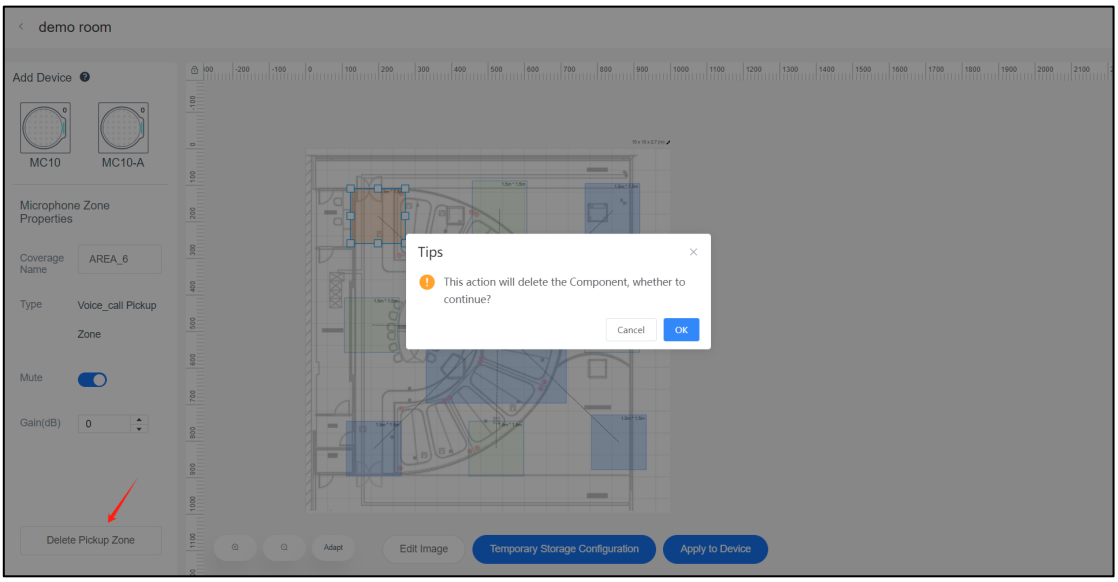
picture 4-2-12

Enable **“Mute”,** and the status of the pickup zone on the right side will be muted, as shown in picture 4-2-13.



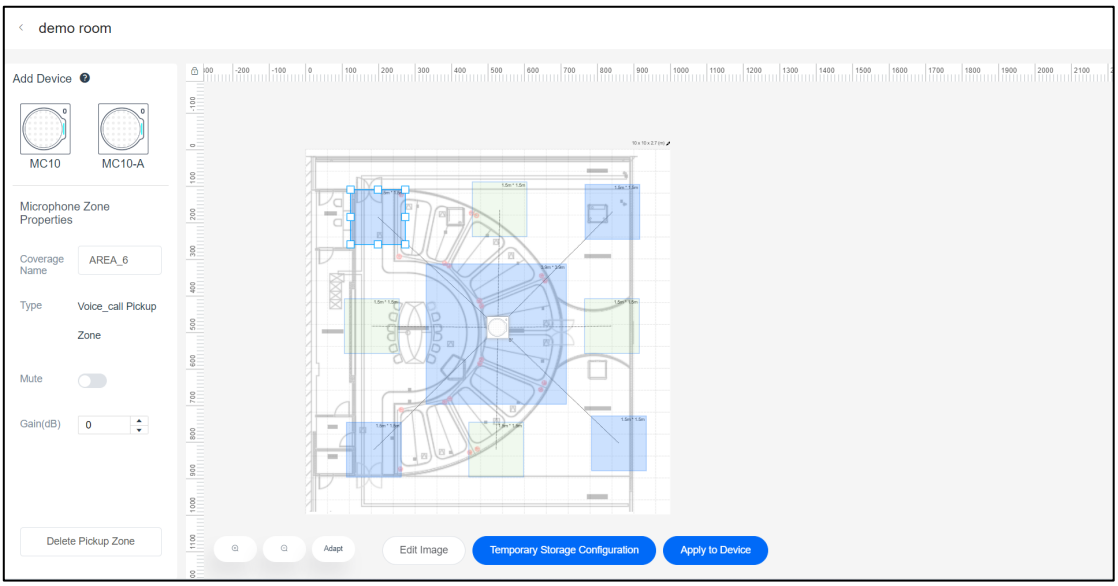
picture 4-2-13

Click “Delete Pickup Zone” to delete the current pickup area, as shown in picture 4-2-14:



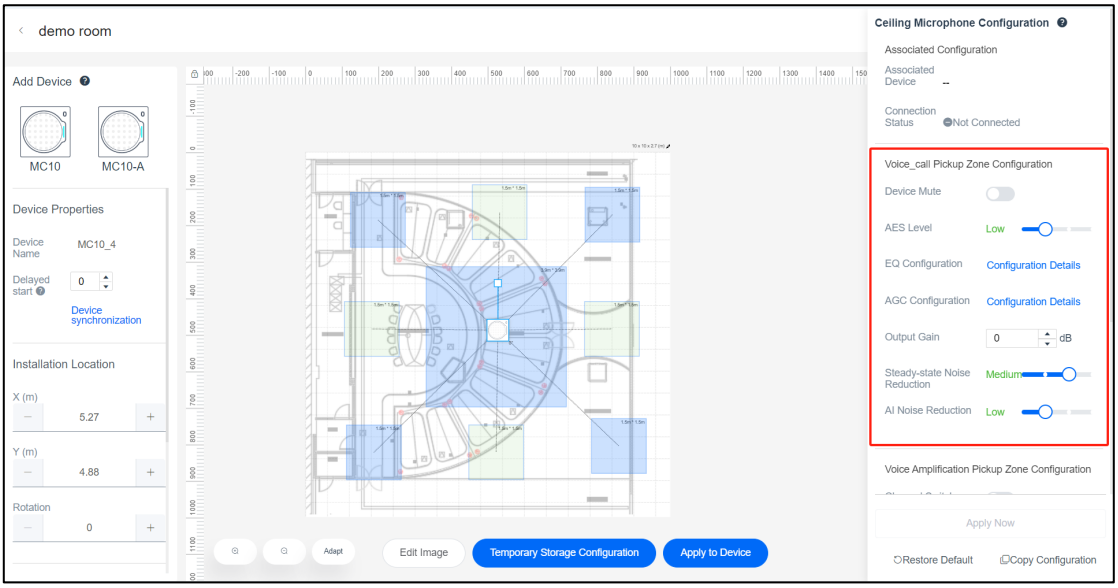
picture 3-2-14

After the pickup zone is successfully added, the size and position can be modified, as shown in picture 4-2-15.



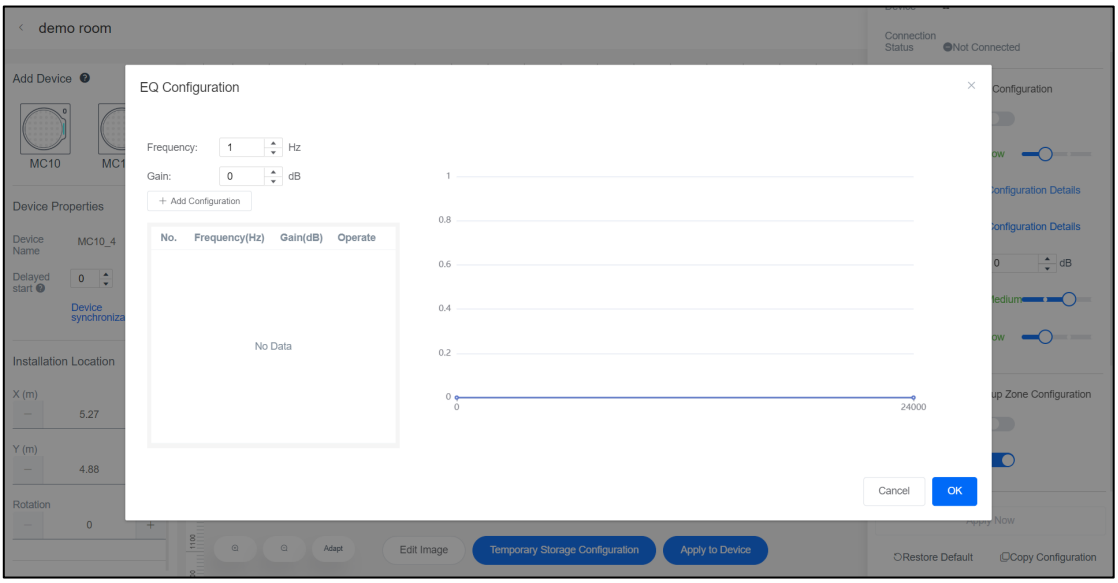
picture 3-2-15

Click the microphone icon in the canvas area, and the application properties can be configured on the right side, as shown in picture 4-2-16.



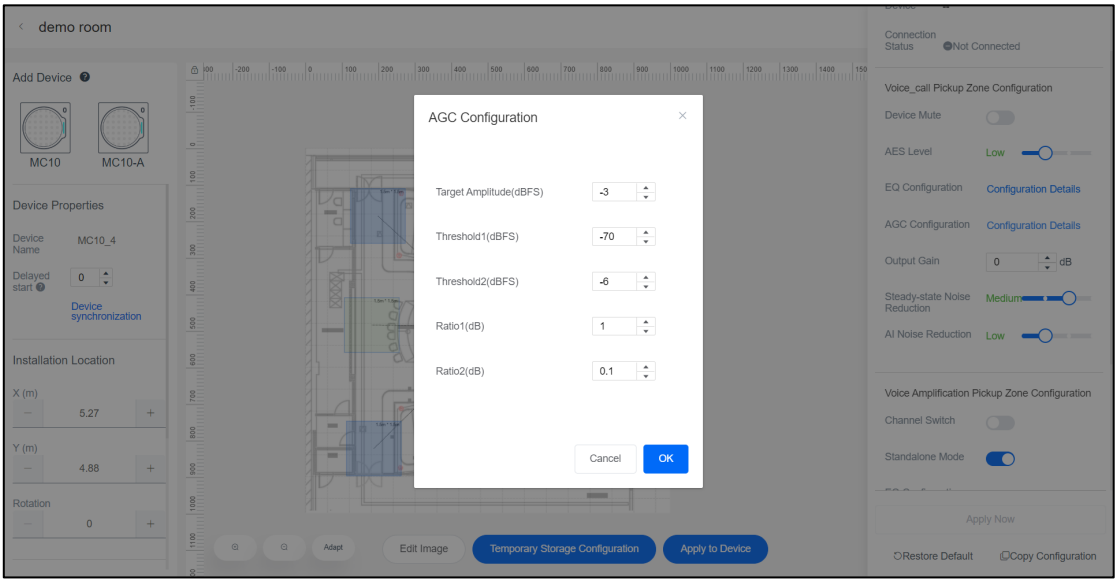
picture 4-2-16

Click **“EQ Configuration”,** the EQ configuration box will pop up. After adding data on the left side, the chart will be updated synchronously on the right side, as shown in picture 4-2-17.



picture 4-2-17

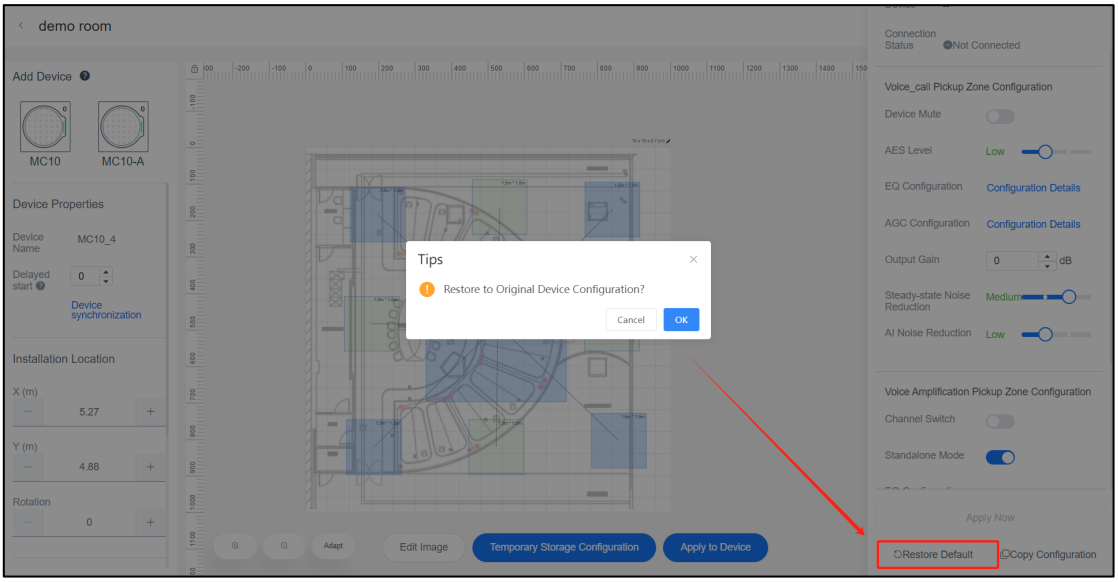
Click **“AGC Configuration”,** AGC configuration window will pop up, you can change the AGC configuration, as shown in picture 4-2-18:



picture 4-2-18

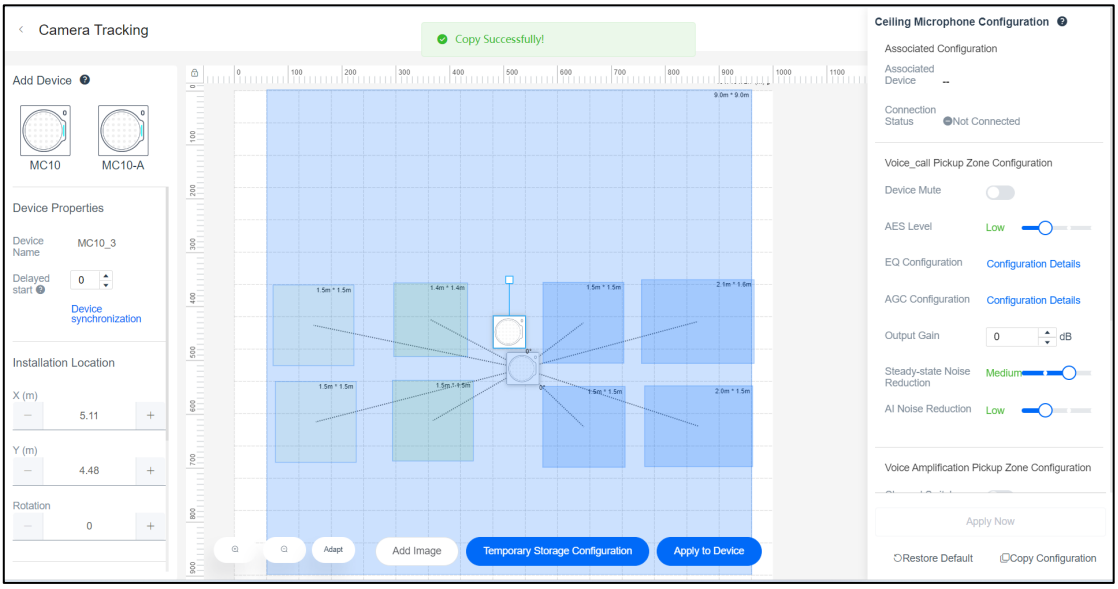
Click the **"Restore Default"** button to restore the modified data to the factory default

settings, as shown in picture 4-2-19.

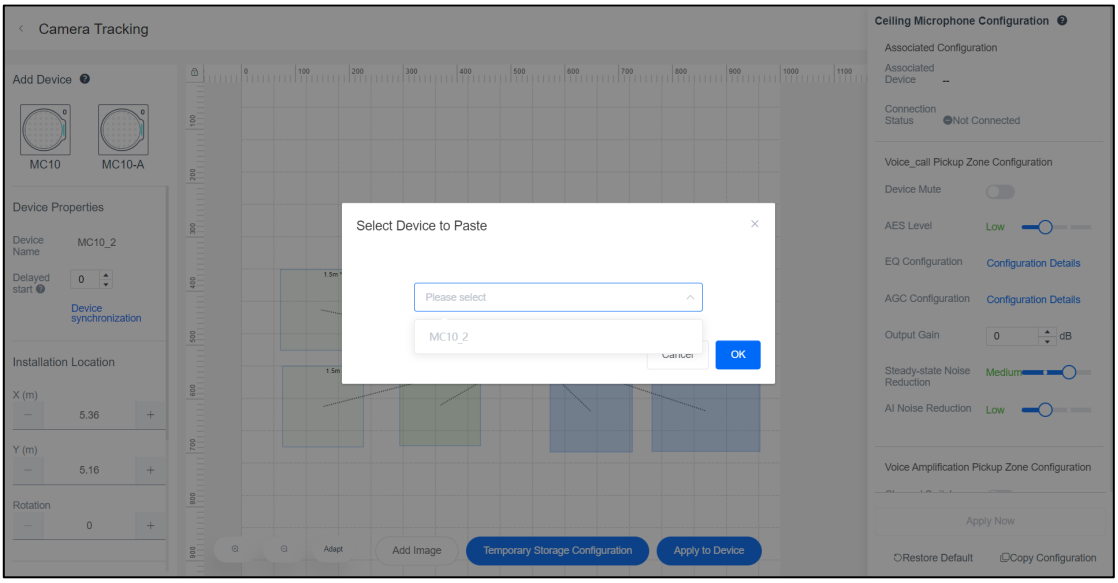


picture 4-2-19

After drag-and-dropping to generate multiple microphones, you can click the **"Copy Configuration"** button to copy the application properties of the current device to other devices, as shown in picture 4-2-20 and 4-2-21.



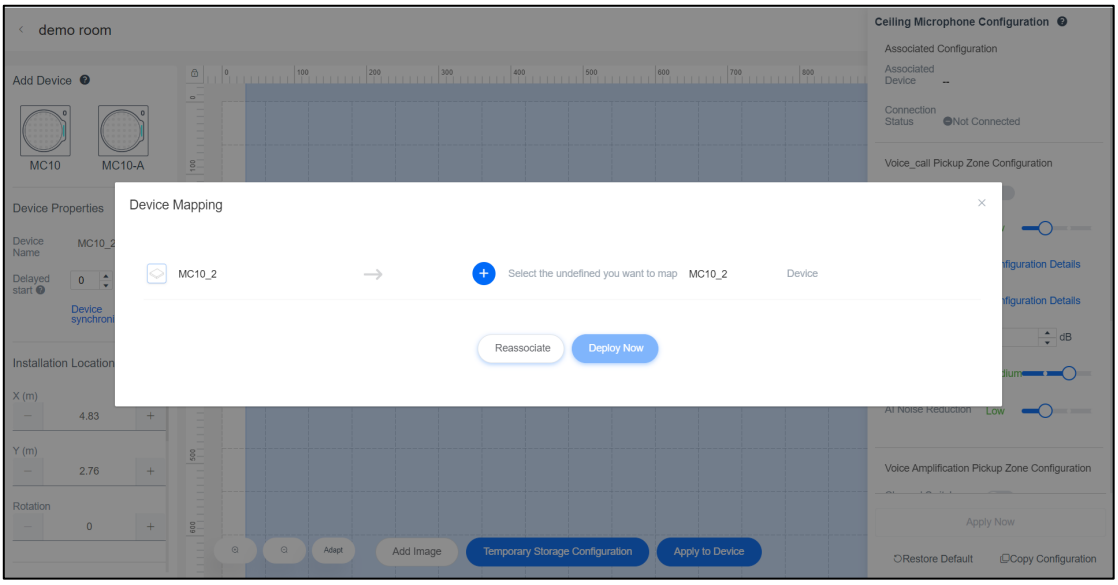
picture 4-2-20



picture 4-2-21

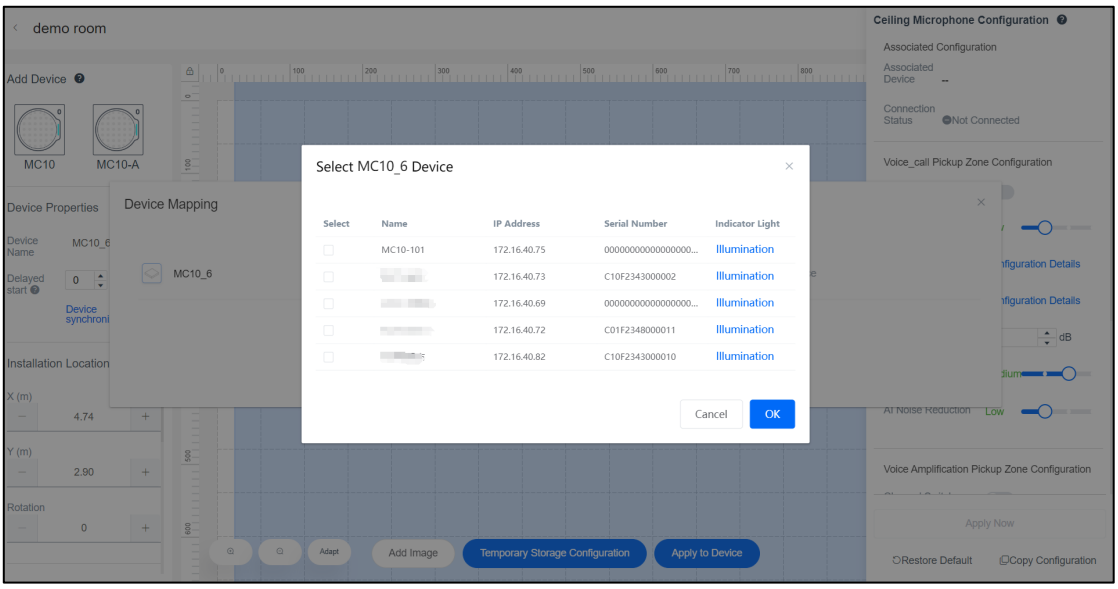
After the configuration completed, you can click the "**Apply to Device**" button, and the device mapping box will pop up, which is used to associate the setup device with the online device, as shown in picture 4-2-22.

Click the **“+” Plus** button to pop up the online devices list.



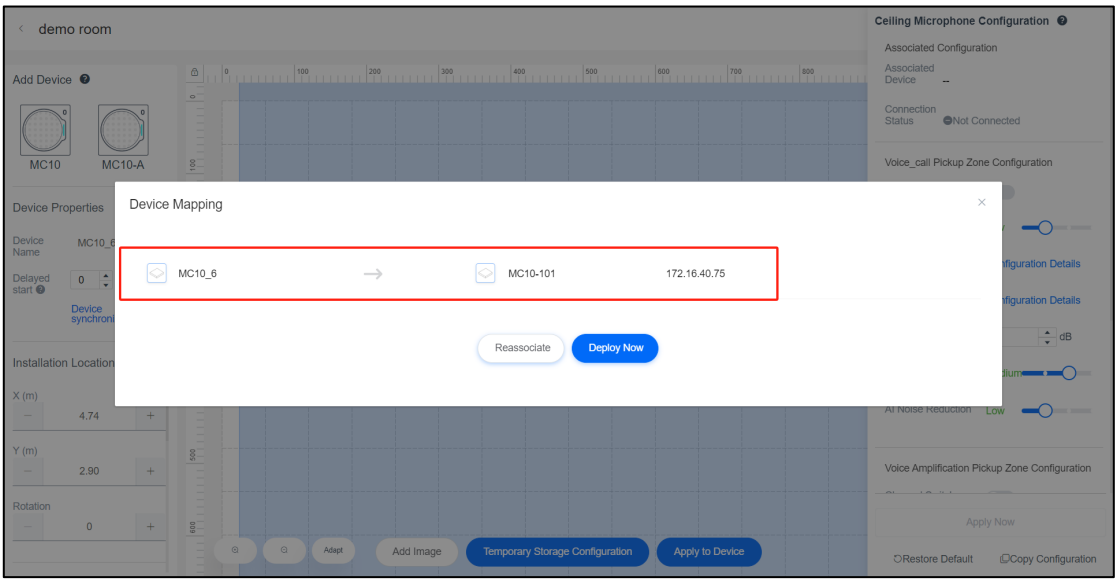
picture 4-2-22

Click to **“Illumination”** button, the associated microphone will flash briefly. Check the box on the left to select the device to be associated, as shown in picture 4-2-23:

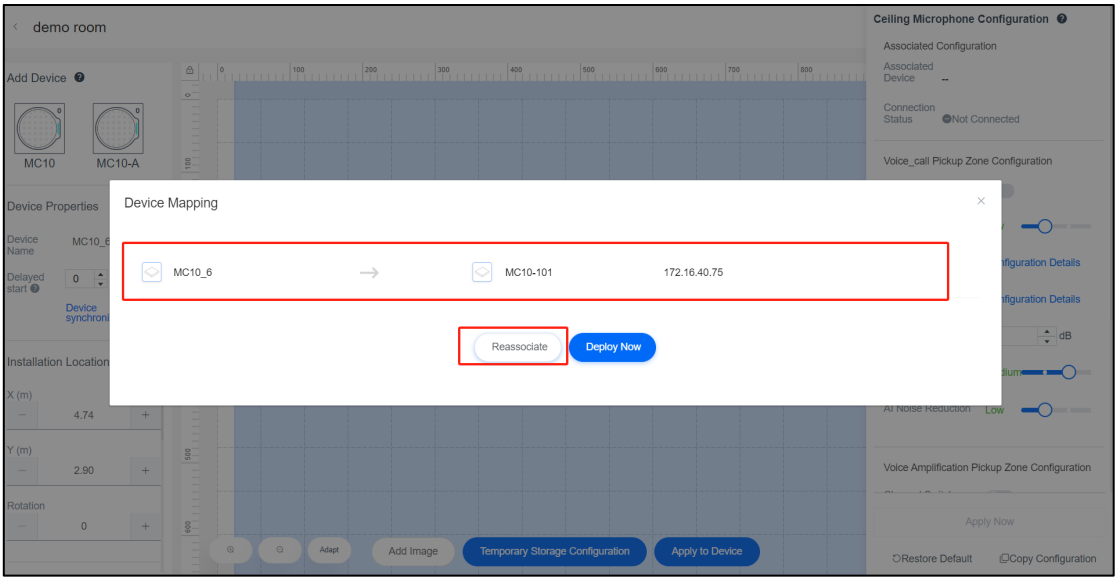


picture 4-2-23

After selecting the device, the name of the microphone on the left side will be associated with the online device, as shown in picture 4-2-24; Click the **“Reassociate”** button, and the previously associated data will be cleared, as shown in picture 4-2-25.



picture 4-2-24



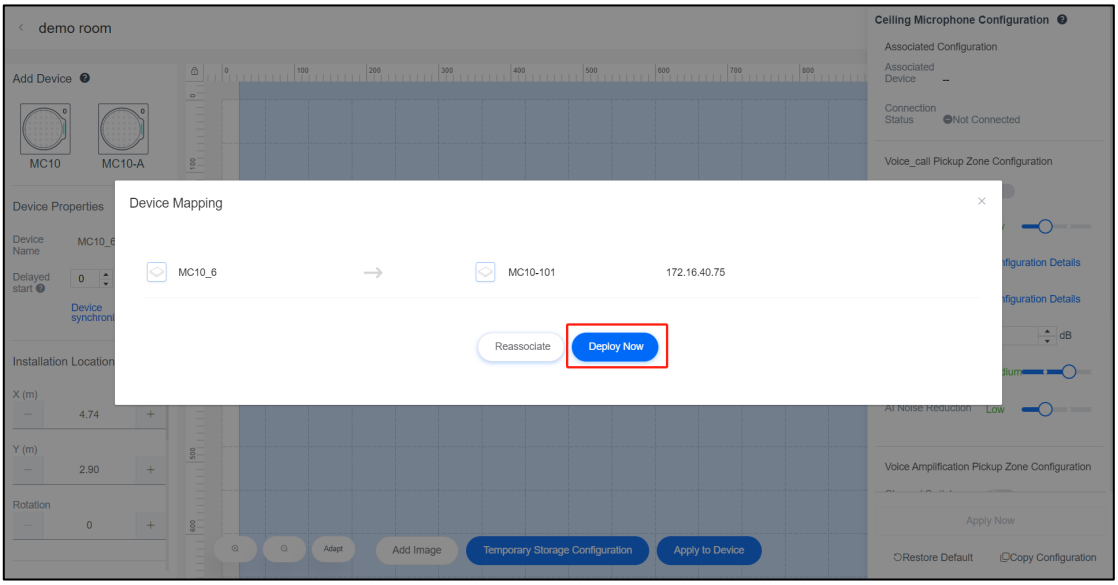
picture 4-2-25

After all devices are associated, click the **"Deploy Now"** button to load the position and application properties of the configured vitual microphone to the real one and display the current status, as shown in picture 4-2-26.

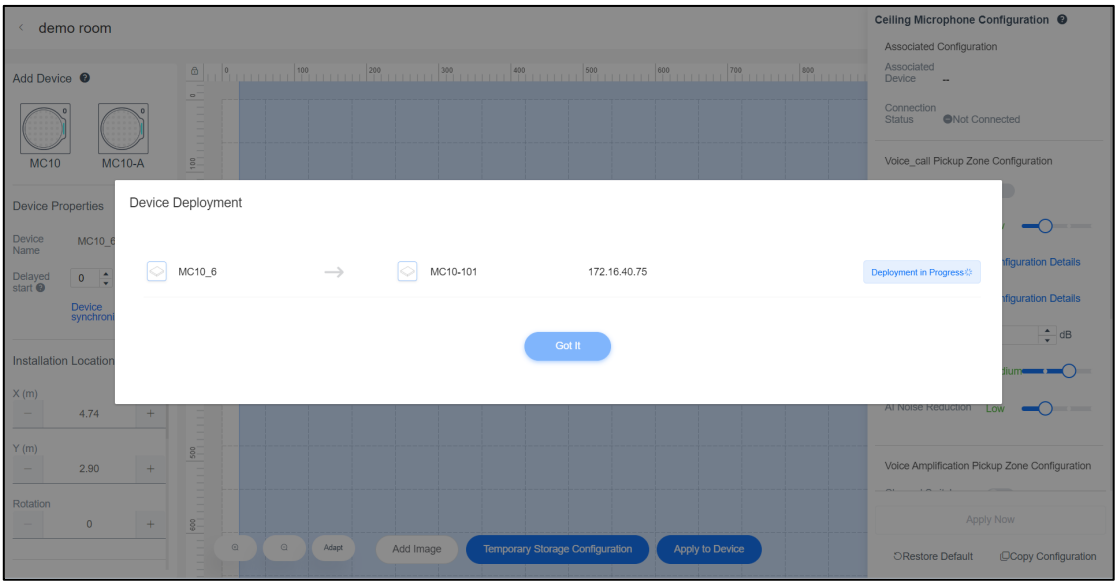
The relevant states is **“deployment in progress”**, as shown in picture 4-2-27.

“Deployment Successful” as shown in picture 4-2-28.

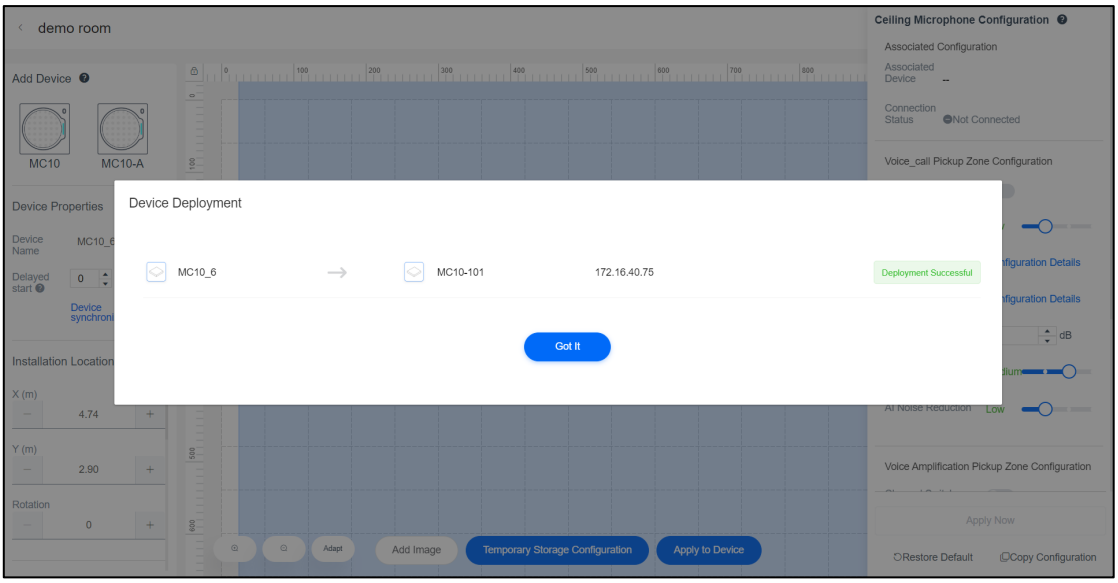
“Deployment Failure”, as shown in picture 4-2-29.



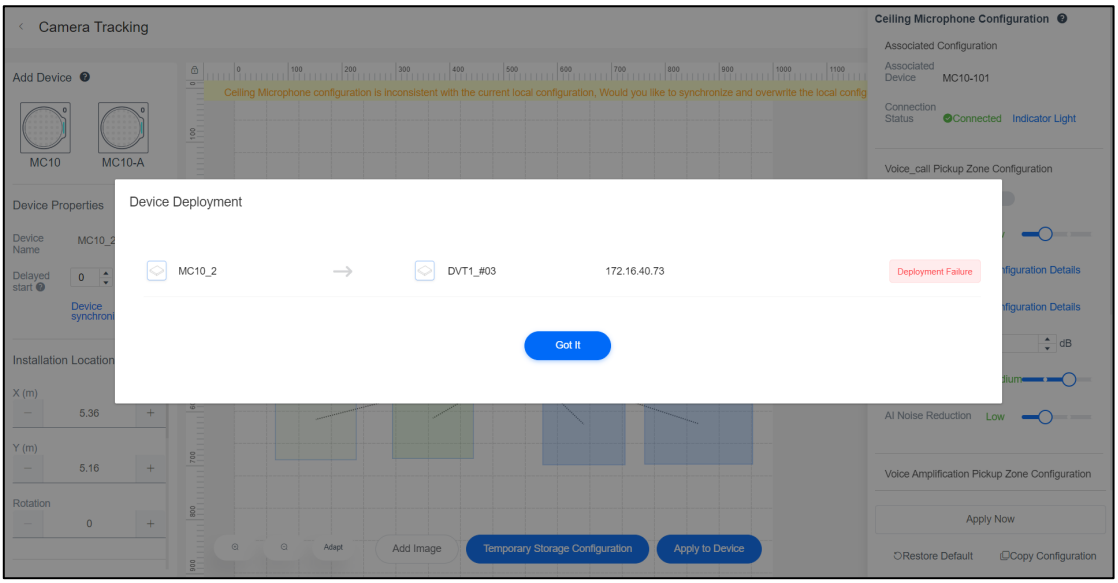
picture 4-2-26



picture 4-2-27

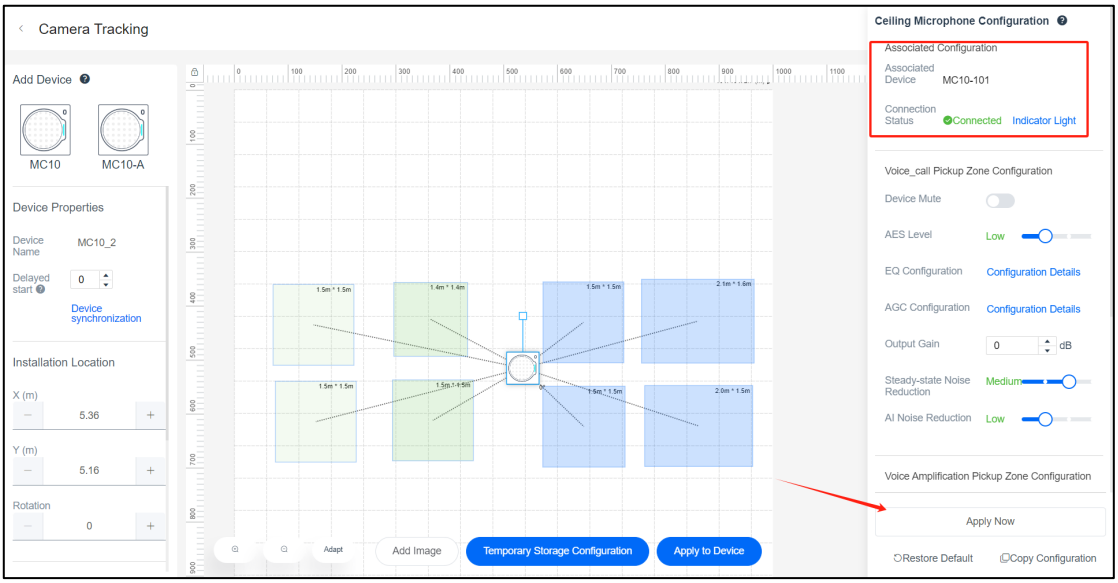


Picture 4-2-28



Picture 4-2-29

After the deployment is completed, the status of the device in the canvas area will be updated, and the online microphone and status will be displayed on the right side. For online devices, you can edit the application properties and click the **"Apply Now"** button to directly load the configuration to the device, as shown in picture 4-2-30.



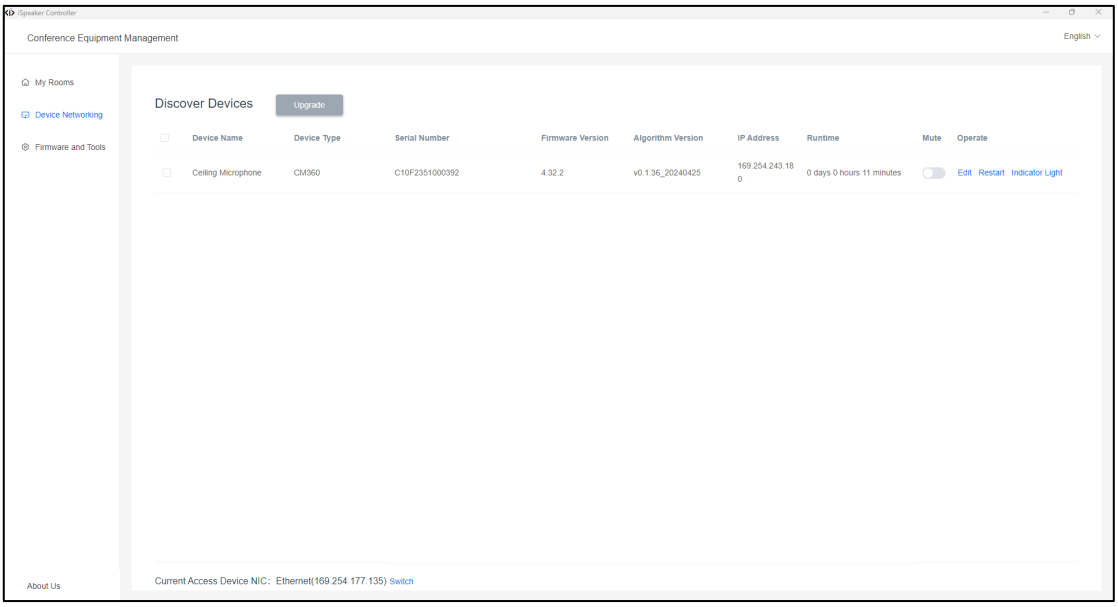
picture 4-2-30

4.3 DEVICE NETWORKING

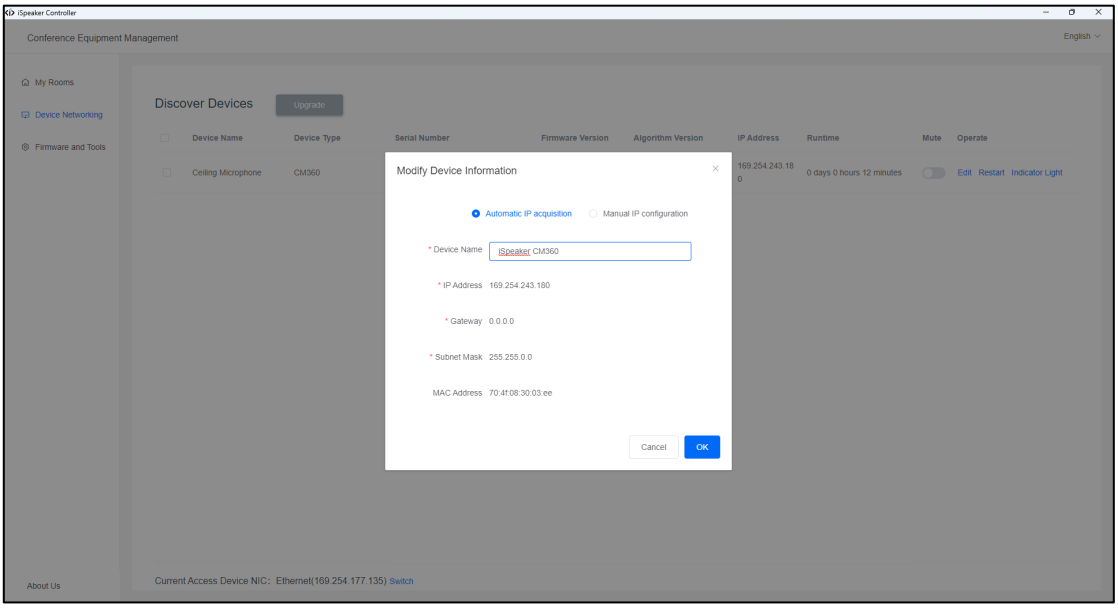
Click **“Device Networking”** on the left and display the list of devices currently online; In the device list, the device can be muted, restarted and changed the indicator status, as shown in picture 4-3-1.

Click “Edit” to pop up the device information modification box to update the device information, as shown in picture 4-3-2.

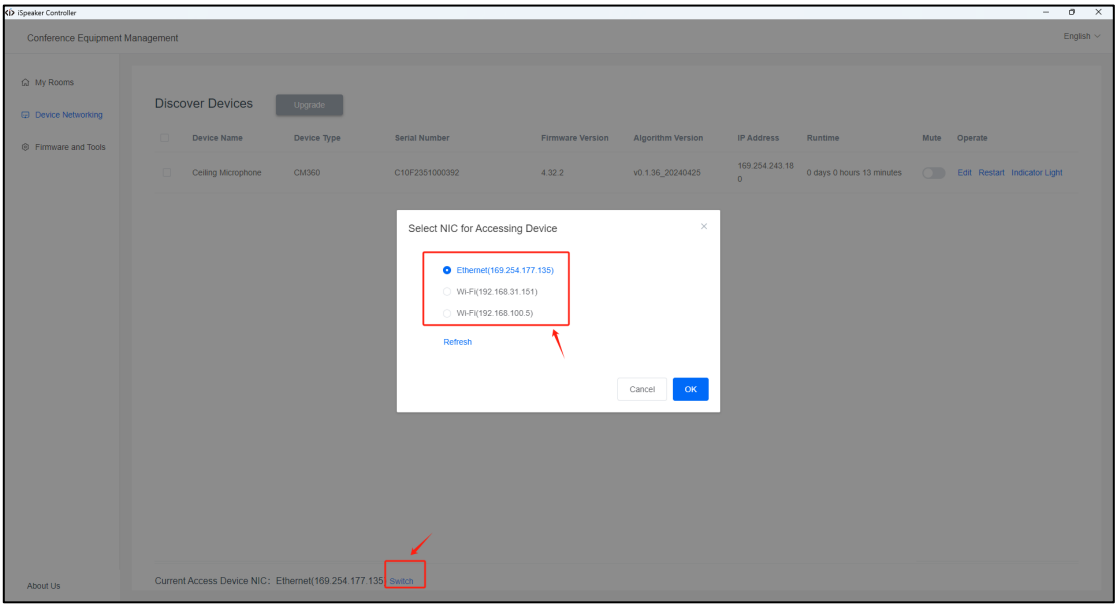
Click below to switch, the pop-up box for selecting the network card to access, and switch the network card, as shown in picture 4-3-3:



picture 4-3-1

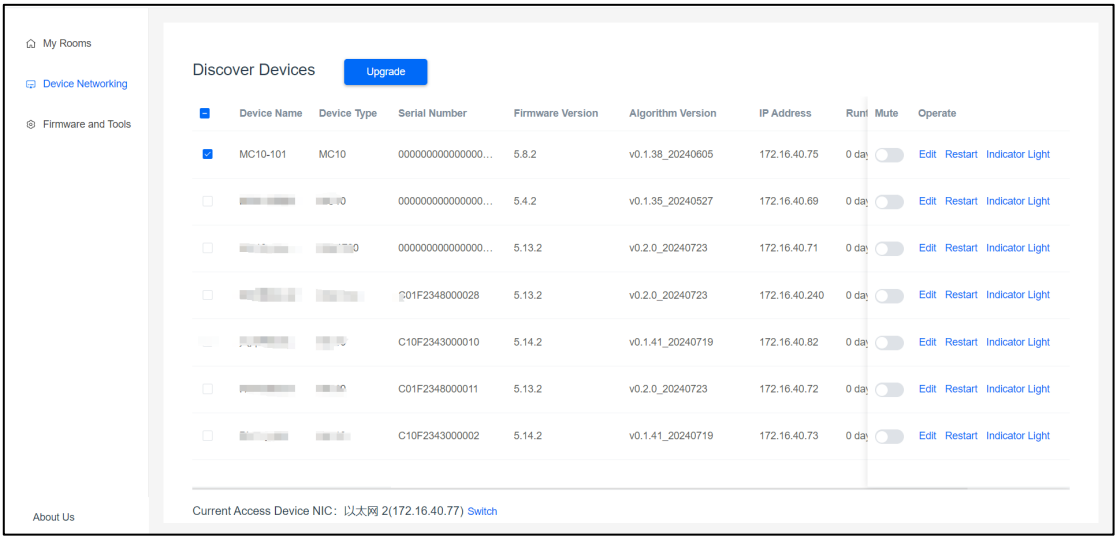


picture 4-3-2



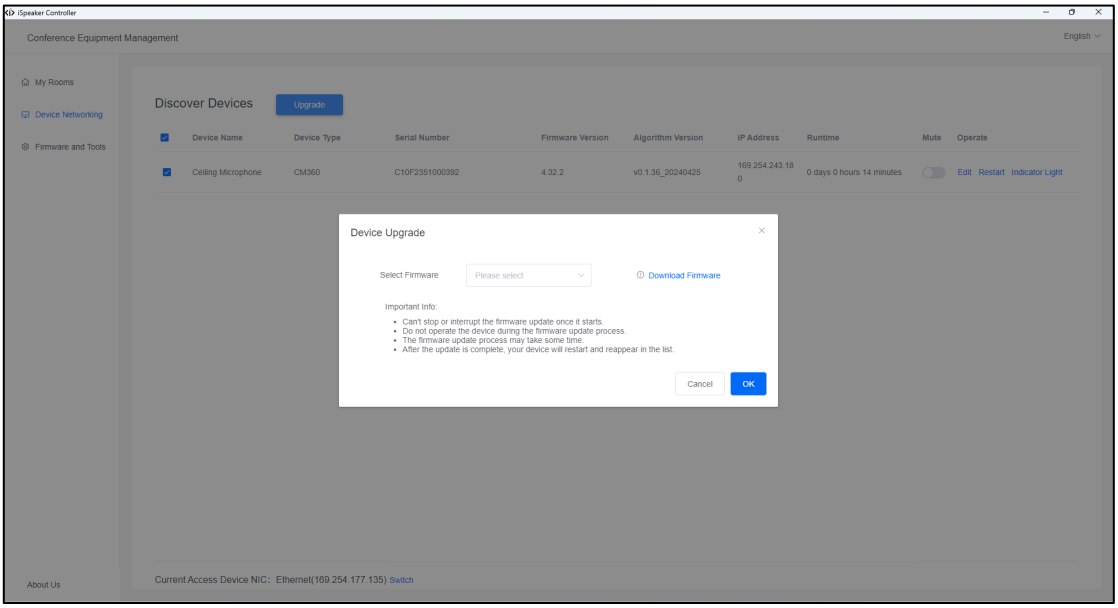
picture 4-3-3

Click the selection box on the left, and the status of the **“Upgrade”** button at the top can be clicked, as shown in picture 4-3-4.



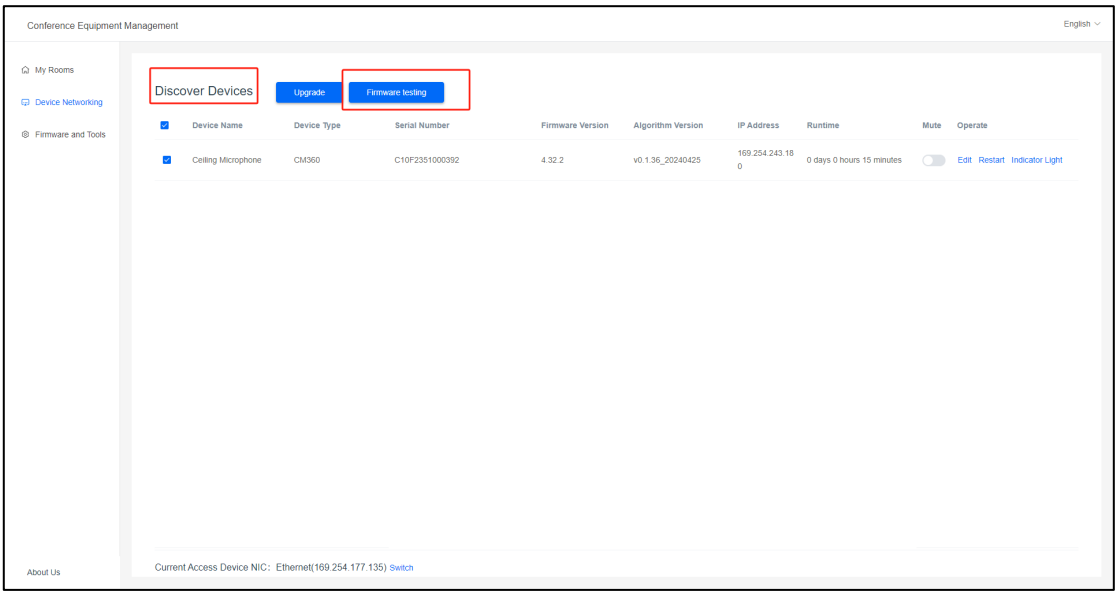
picture 3-3-4

Click **“Upgrade”,** select the downloaded firmware version in the pop-up box, if the firmware is not in the list, click **“Download Firmware”** to jump to the firmware management list, as shown in picture 4-3-5



Picture 4-3-5

Click **"Discover Devices"** by 5 times, the **"Firmware Testing"** button will appear, after clicking, the firmware can be manually uploadedas shown in picture 4-3-6.



picture 4-3-6

After the firmware version is selected, the device enters the upgrade state, and the

upgrade progress is displayed. After the device restarts, it will be upgraded to the new version and displayed in the list.

4.4 FIRMWARE AND TOOLS

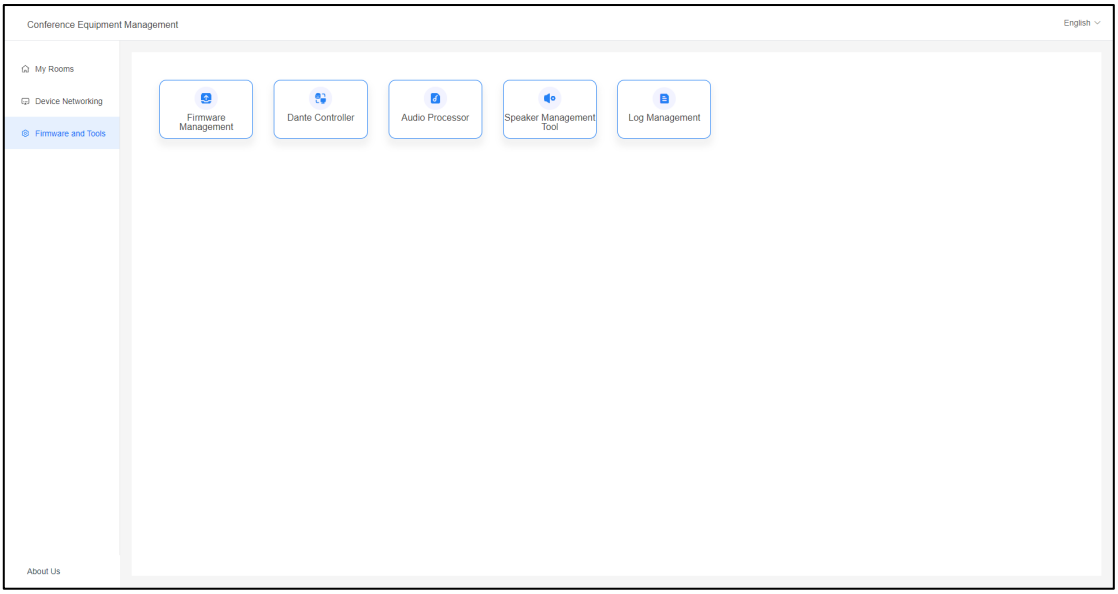
Click the “Firmware and Tools” to display features: Firmware Management, Dante Controller, Audio Processor, Speaker Management Tool, Log Management, and other modules.

Dante Controller: Click to run the Dante Controller automatically.

Audio Processor: Click to run INFOBIT **iSound DSP** software automatically.

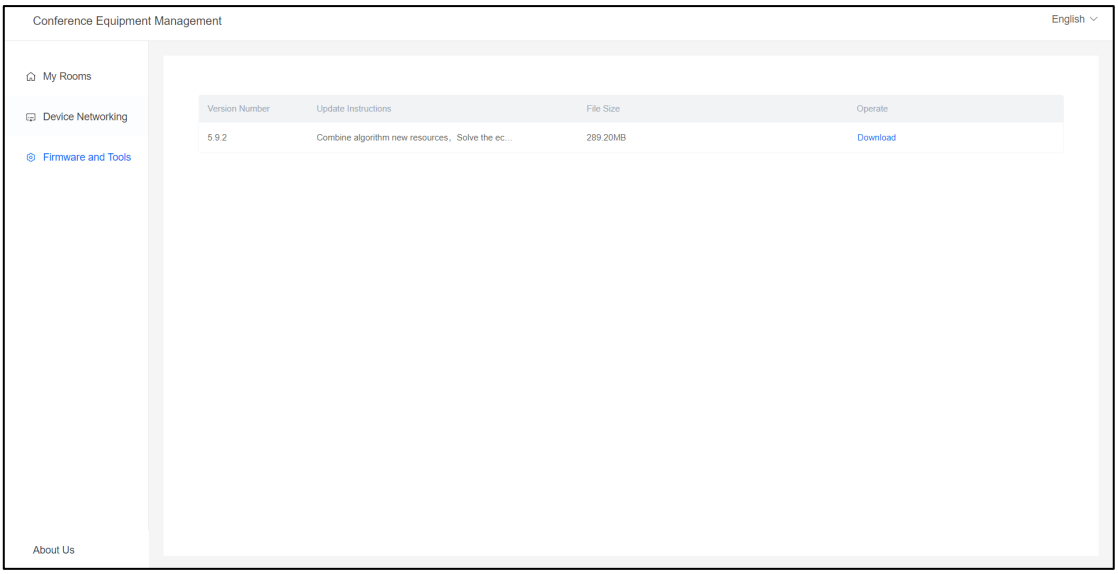
Speaker Management Tool: Click to run the speaker software automatically.

Log Management: The current logs can be printed or exported, as shown in picture 4-4-1:

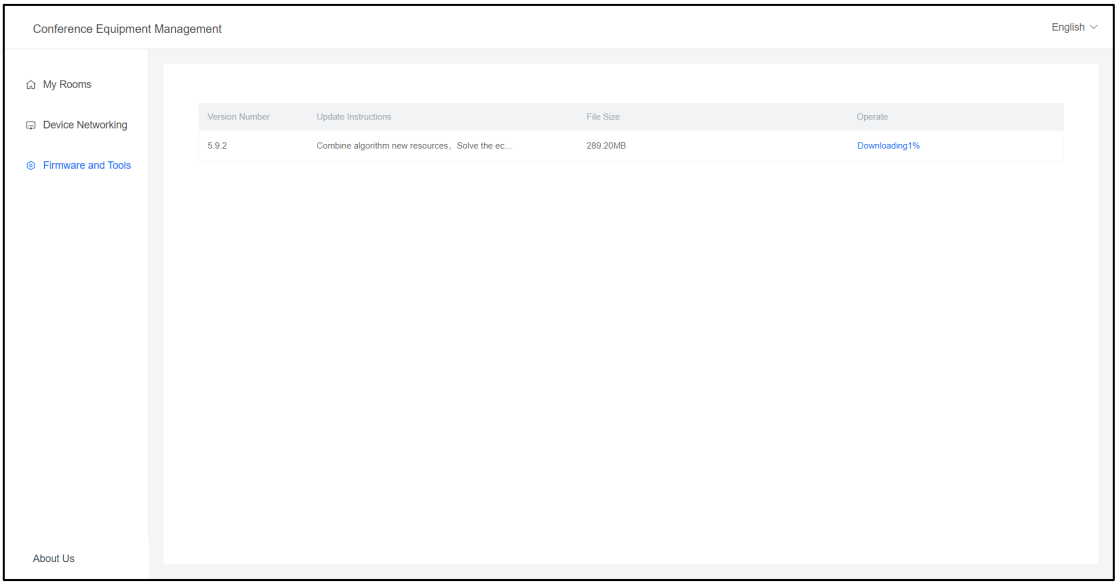


picture 4-4-1

Click **“Firmware Management Tool”** to enter the firmware list page, as shown in picture 4-4-2. Click the download button to enter the download state and display the progress, as shown in picture 4-4-3; You can delete or upgrade the downloaded firmware. Click Upgrade to go to the upgrade page.



picture 4-4-2



picture 4-4-3

4.5 CAMERA TRACKING

On the lower left corner, the **“Voice Camera Tracking”** is displayed. From top to bottom:

“Enable/Disable switch” of the camera tracking.

“Linkage Device” “Add Device”: to add and link the tracking camera.

“Debug Mode”: to enter debugging mode.

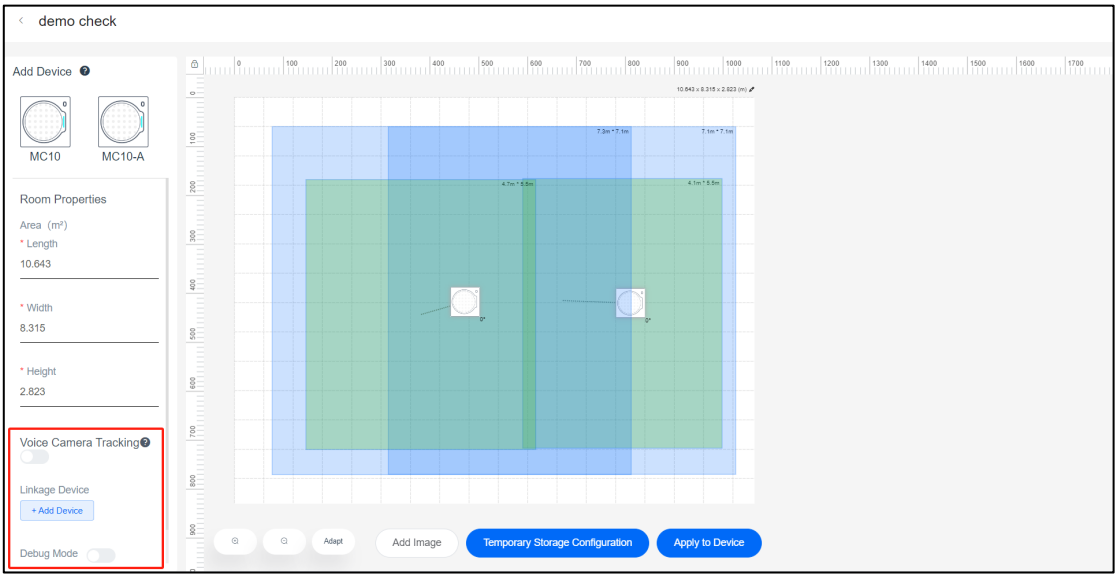
For the overall operations:

1. Add the linkage device (camera) firstly. (Before adding the tracking camera, deploy the microphone firstly, otherwise the linkage will be failed).

2. After entering the debugging mode, open the coordinate of the sound location, and add the linkage area successively according to the positions information.

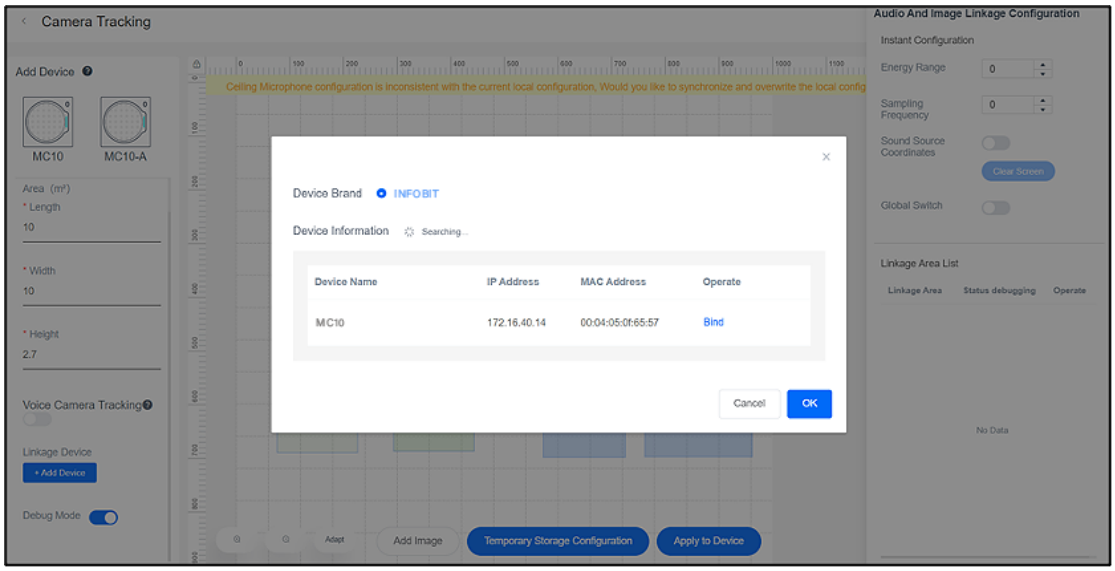
3. Confirm the linkage area correctly then click **“Apply to Device”.**

The details are shown in picture 4-5-1:



picture 4-5-1

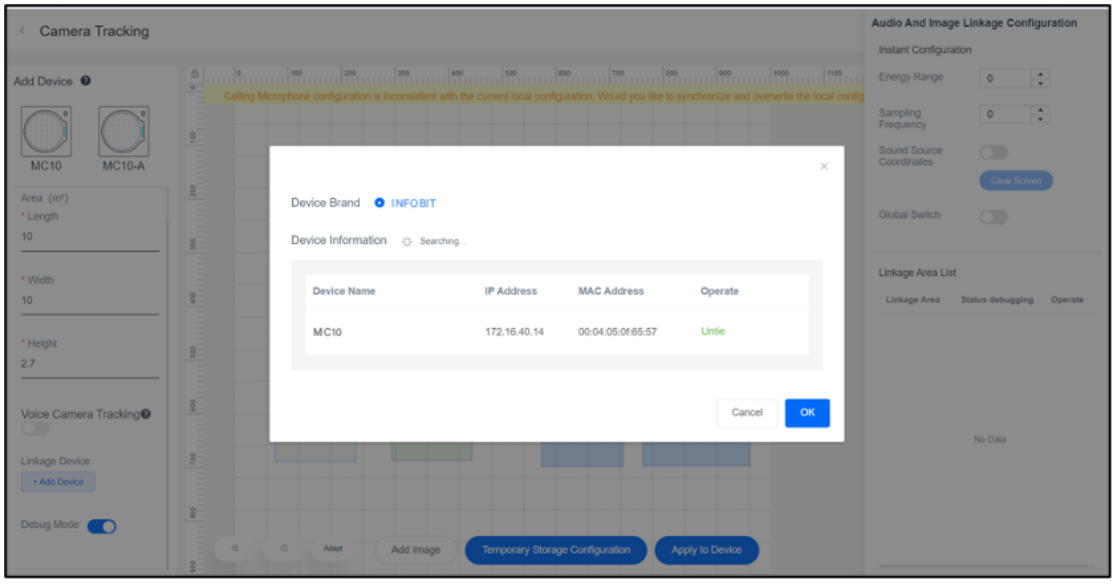
Click **“Add Device”** to automatically search the tracking box information under the same LAN, including Device Name, IP Address, Mac Address, and Operation. As shown in picture 4-5-2.



picture 4-5-2

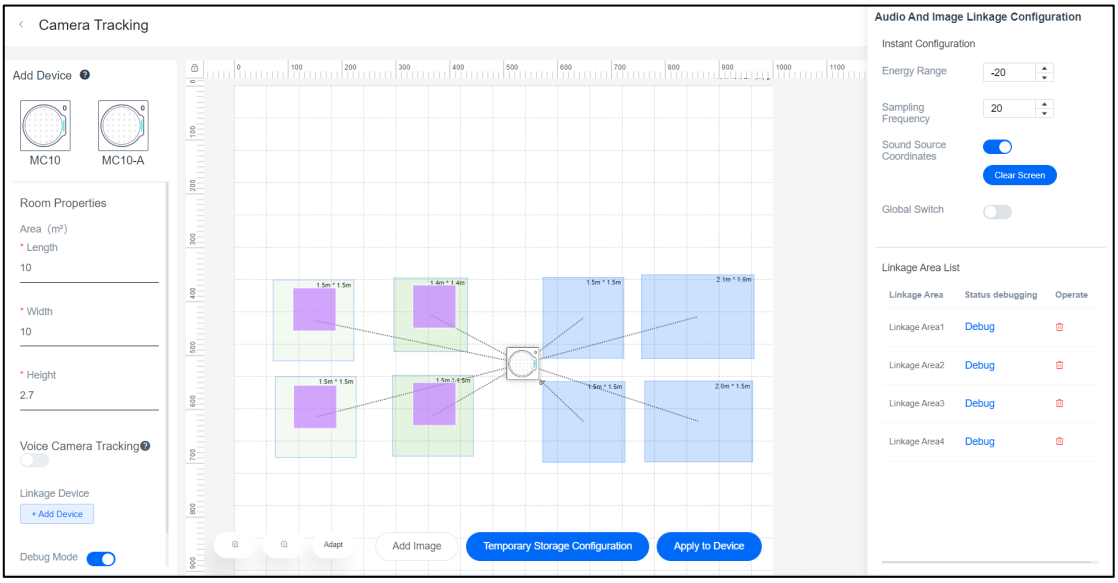
Click **"Bind"** to complete the binding of the linkage box information (Note: the purpose of binding is to clarify which linkage box the current ceiling microphone group communicates with.)

The status will change to **"Unbind"** after the completion of binding. As shown in picture 4-5-3



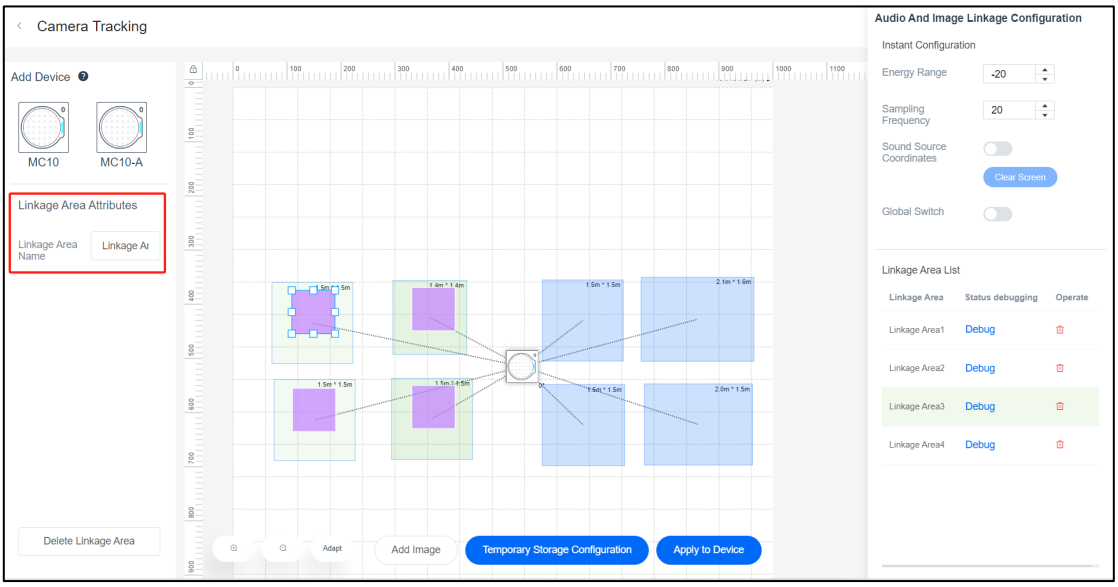
Picture 4-5-3

Enable the “Debug Mode” and **“Sound Location Coordinates”,** then you can add maximum of 64 linkage regions by right-clicking according to the location’s information. As shown in picture 4-5-4



picture 3-5-4

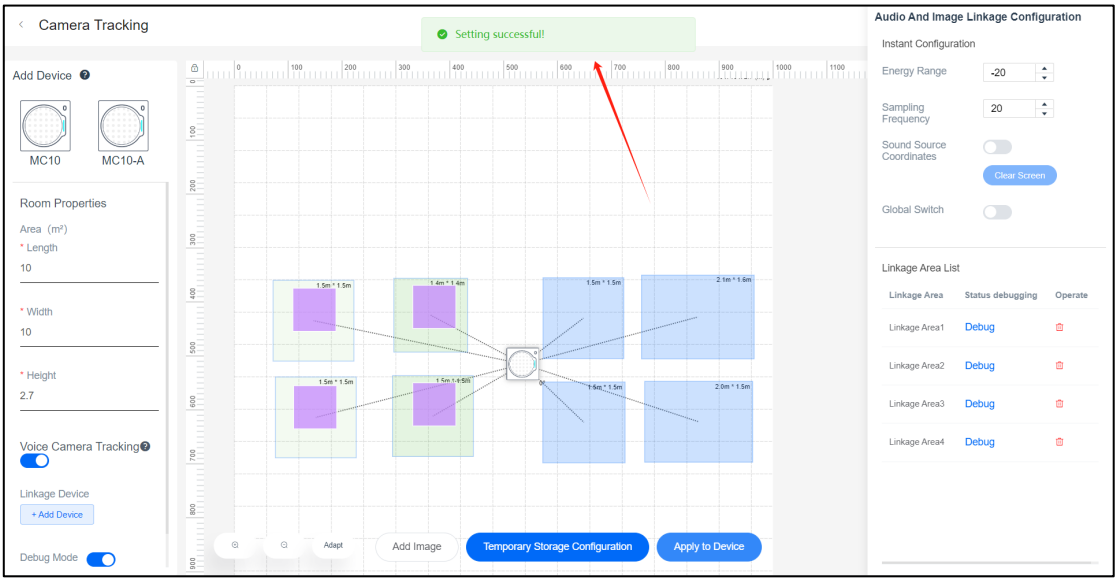
You can change the name, size, and location in the linkage area by clicking each area. As shown in picture 4-5-5.



Picture 4-5-5

After the linkage area is configured, click **“Apply to Device”** to load the data, then the pop-up text message will show **“Setting successful!”**

As shown in picture 4-5-6.



Picture 4-5-6