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**CamConnect Pro &  
Sennheiser TCC2  
Zone Mode  
Setting Guide**

# Notice:

1. it is recommended that the optimal pickup range of the microphone be within a radius of 2 to 3 meters.
  - If the distance extends to 3 to 4 meters, there is a possibility of audio drifting or instability.
  - If audio drifting or instability occurs, the detection zone should be enlarged accordingly based on the drifting range.
  - **Distances beyond 4 meters cannot guarantee accurate detection**
2. **Distance Limitations Between Two Participants' Positions.**
  - It is recommended to keep the distance between 0.8 ~ 1.2 meters.
  - If interference occurs within this range, the preset area must be enlarged—for example, changing from covering one seat to covering two or three seats.
3. **Check whether there are other environmental noise sources that affect audio pickup at that position.**
  - If so, try creating multiple zones around the noisy area to prevent that region from triggering audio pickup.
4. **Notes on Enabling “Back to HOME” Setting.**
  - Currently, when using a box camera and setting it to Back to Home, version V1.14.0 is required to trigger the function properly.
  - Workaround:
    - Assign the VC-BC301P to an unused Array Zone (a zone that will never be triggered).
    - Then, select the VC-BC301P in the Back to Home setting

# Prepare

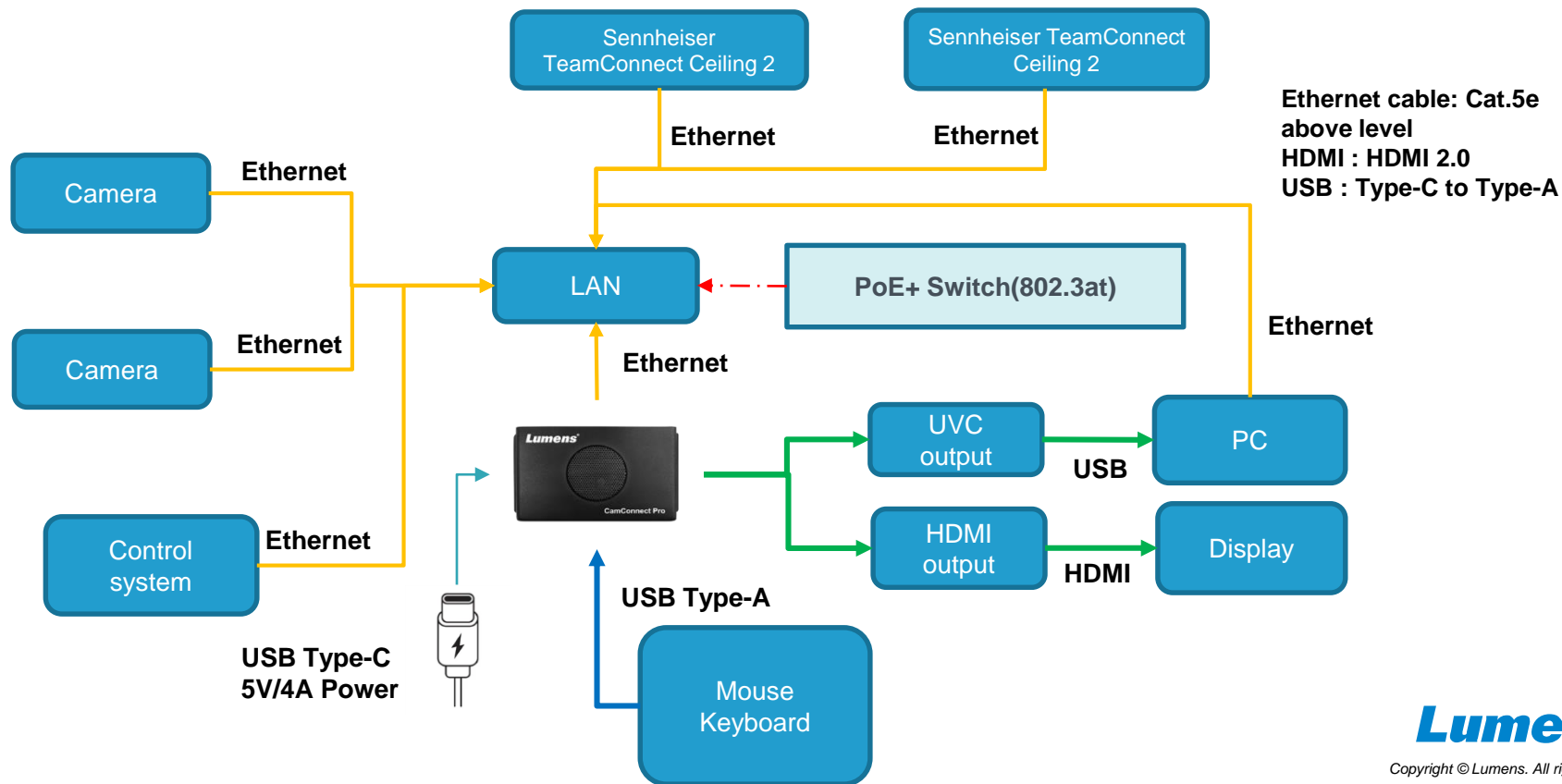
This document uses **Sennheiser TeamConnect Ceiling 2** as an example of setting.

- Please install Sennheiser TeamConnect Ceiling 2 microphone, Lumens CamConnect processor and Lumens PTZ cameras in the same LAN (same class C network).
- For the first installation, you need to prepare a router or Switch with DHCP server function.
- Sennheiser TeamConnect Ceiling 2 installed in the ceiling above the center of a conference table

# Set up Environment

Your Reliable Partner

Please connect Cameras, Microphone, and AI-BOX1 with **the same Network Switch**.

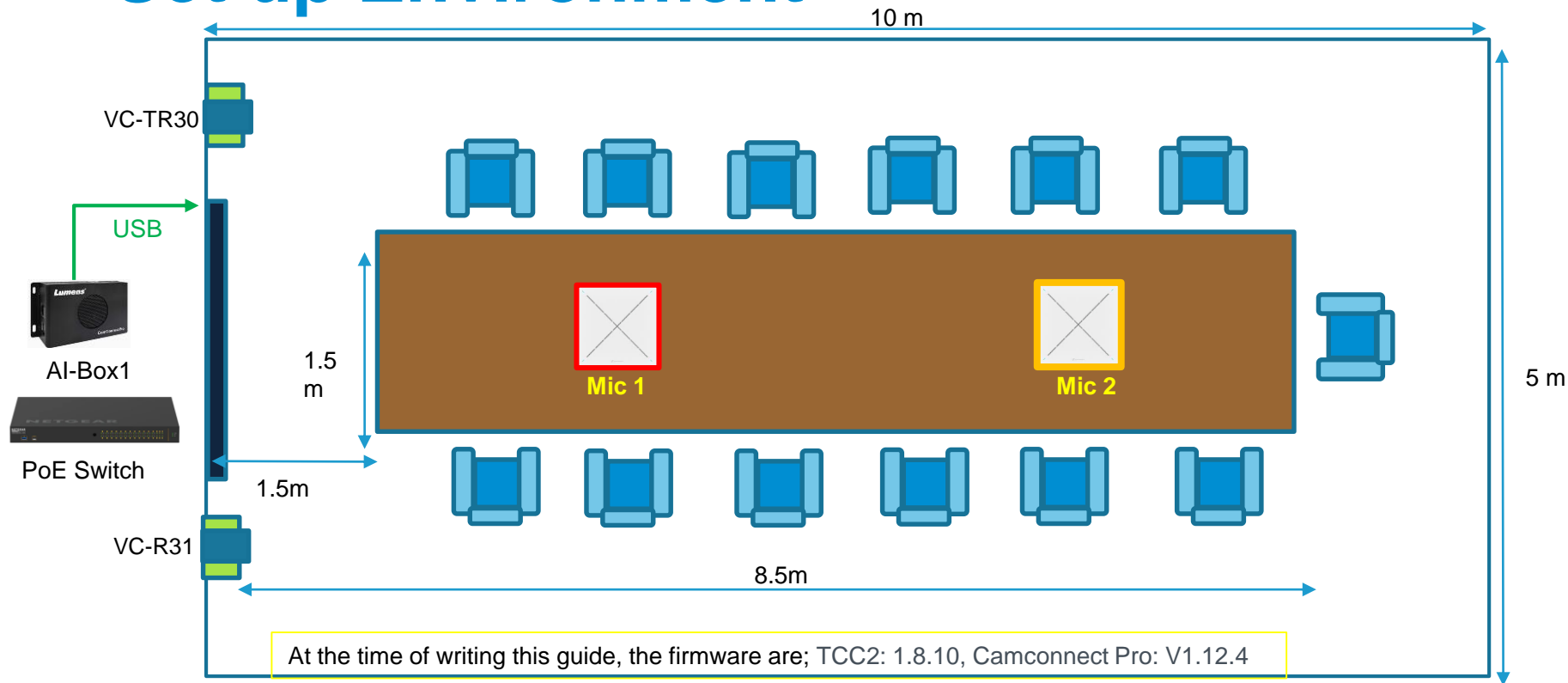


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# Set up Environment

Your Reliable Partner



TCC2



Seat



Lumens  
Camera



Mic 1



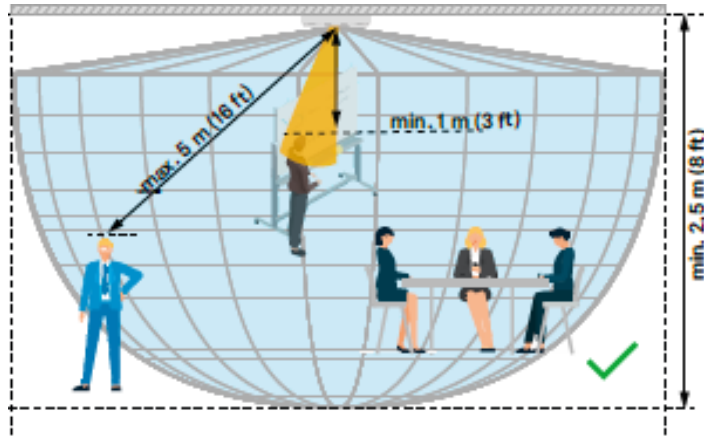
Mic 2

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# Sennheiser TeamConnect Ceiling 2 Setting tips

# Coverage and Installation



**Fig. 12: Correct installation in or below the ceiling**

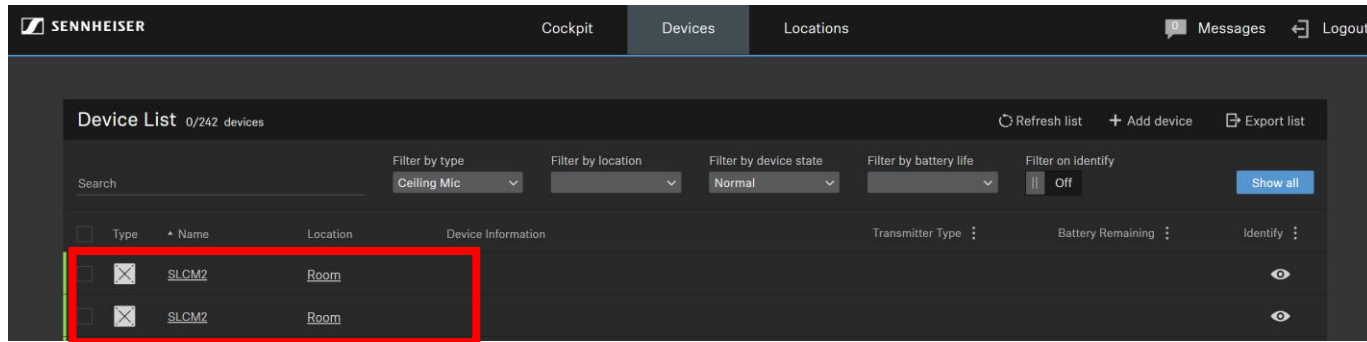
- The distance between the TCC2 and the farthest presenter is a maximum of 5 m (16 ft).
- The distance between the TCC2 and the closest presenter is at least 0.5 m (1.6 ft).
- The distance between the TCC2 and the floor is at least 2.50 m (8 ft).

## Recommended room coverage with the TCC2

Area in m <sup>2</sup> (ft <sup>2</sup> )	Quantity of TCC2 units
< 50 (538)	1
≥ 50 (538) < 100 (1076)	2
≥ 100 (1076) < 150 (1615)	3
≥ 150 (1615) < 200 (2153)	4
≥ 200 (2153) < 250 (2690)	5
≥ 250 (2690) < 300 (3229)	6
≥ 300 (3229) < 350 (3767)	7
≥ 350 (3767) < 400 (4306)	8
≥ 400 (4306) < 450 (4844)	9
≥ 450 (4844) < 500 (5382)	10
***	***

# Microphone Setting

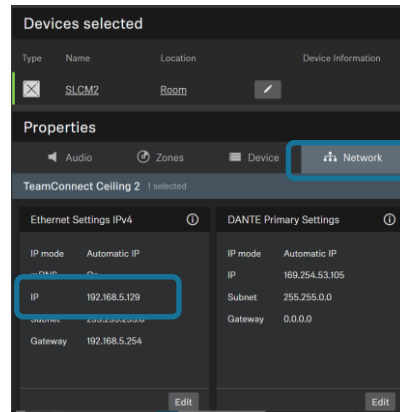
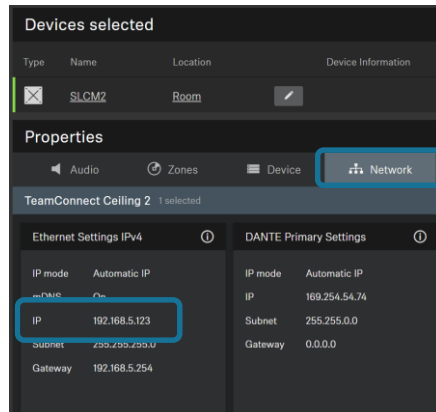
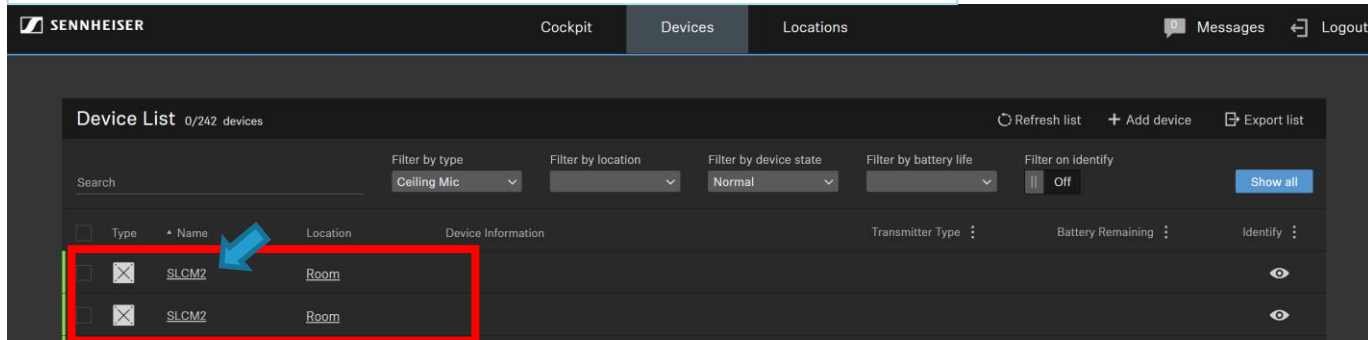
1. Download “SennheiserControlCockpitInstaller” software from below link.  
<https://en-us.sennheiser.com/control-cockpit-software>
2. Install and run this software.
3. The array microphone will automatically show on Device list.
4. Enter the device for more setting.





# Microphone Setting

1. Get TCC2 IP for CamConnect Pro, Click TCC2



# Microphone Setting

1. Keep the setting as default in Audio page

The screenshot displays the 'Properties' window for 'TeamConnect Ceiling 2' with the 'Audio' tab selected. The interface is organized into several panels:

- Sound Profile:** A dropdown menu set to 'Off'.
- Input Level (digital):** Includes a 'Manual gain' dropdown, a 'Level' bar graph, a 'Gain' slider (ranging from -60 to +9 dB), and a 'Show far end activity on LEDs' toggle set to 'Deactivated'.
- TruVoicelift Settings:** Features a 'TruVoicelift' toggle set to 'Deactivated', a 'Mute Threshold' slider (ranging from -50 to -3 dB), and a 'Mute Interval Time' slider (ranging from 1.0 to 30.0 seconds).
- Noise Gate Settings:** Includes a 'Noise Gate' toggle set to 'Deactivated', a 'Threshold' slider (ranging from -90 to -40 dB), and a 'Hold Time' slider (ranging from 50 to 1000 ms).
- Audio Output (analog):** Shows an 'Audio Output (analog)' slider (ranging from -18 to 0 dB) and a 'Microphone Level' bar graph.
- Audio Output (digital):** Features an 'Audio Output (digital)' slider (ranging from 0 to +24 dB).
- Location-based Mute:** A toggle set to 'Deactivated'.
- Mute:** A toggle set to 'Deactivated'.
- Sensitivity Threshold:** A dropdown menu set to 'Normal'.
- Installation Type:** A dropdown menu set to 'Flush mount'.
- Audio Default Settings:** A panel with a 'Click to enable reset' button and an 'OK' button.

# Microphone Setting

1. Turn OFF all of Exclusion Zones setting in Zones page

The screenshot shows the 'Properties' window for a Lumens device, specifically the 'Zones' tab. The interface is divided into two main sections: 'Zones' on the left and '3D Overall View' on the right.

**Zones Section:**

- Priority Zone:** Zone 1 is set to 'Off' with an 'Edit' button. The 'Weight' is set to 'Mid'.
- Exclusion Zones:** A list of five exclusion zones (Zone 1 to Zone 5), all of which are set to 'Off'. Each zone has an 'Edit' button.
- Change orientation:** A button at the bottom of the Zones section.

**3D Overall View Section:**

- A 3D model of a ceiling-mounted microphone array is shown. A yellow sun icon and a white arrow icon are visible on the model.
- Text above the model: 'Rotate the 3D model by dragging it to the left or right with the mouse cursor.'
- Text below the model: 'Beam 341° / 27°'.

# Microphone Setting – For TCCM

1. Set password when using TCCM

Type Name Location Device Information

TCCM Room

Properties

Audio Zones Device Network Access

TeamConnect Ceiling Medium 1 selected

3rd Party Access

The password is not available in this Control Cockpit instance. For more details see chapter 3rd Party Password of the user manual.

OK

Device Access

Password \*\*\*\*\*

Edit

Device Access

Password Lumens@123

OK Cancel

TeamConnect Ceiling Medium 1 selected

3rd Party Access

Secure API Activated

Username api

Password (Unknown)

Edit

Device Access

Secure API Activated

Username api

Password Lumens@123

OK Cancel

## CamConnect Pro Setting

Array Microphone

Device Sennheiser:TCCM(Coord)

Device IP

Port 443

Password Lumens@123

Connect

Audio Trigger Level (dB) -55

Time To Trigger Preset 1 Sec

Back to Home

Set

Apply Cancel

# CamConnect Pro

## Setting tips

# Connection TCC2 and Camconnect Pro

1. Array Microphone Numbers select base on installed amount
2. Select , Sennheiser TCC2 (Coordinate), 1 tab for each microphone.
3. Enter Microphone`s IP.
4. Select trigger time (how long a person should take in a zone for camera preset to be triggered).
5. Hit Apply.
6. Connect with toggle button.

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Devices ▾

Microphone

Camera List

Intelligent Director

Video Output Setting

System ◀

About

**Microphone Setting**

1. Array Microphone Numbers 2 ▾ Voice Tracking ☐ ⓘ

1.Sennheiser:TCC2(Coordinate) 2.Sennheiser:TCC2(Coordinate)

**Array Microphone**

2. Device Sennheiser:TCC2(Coordi ▾

3. Device IP 192.168.5.123

Port 45

6. Connect ☒

Audio Trigger Level (dB) -55

4. Time To Trigger Preset 0.5 Sec ▾

Back to Home Set

5. Apply Cancel

**Device & Camera Mapping**

Mapping Qty. 120

Mic. Zone: -1

Zone No.	Primary Cam
1	Off
2	Off
3	Off
4	Off
5	Off



**Microphone Setting** Array Microphone Numbers 2 ▾

1.Sennheiser:TCC2(Coordinate) 2.Sennheiser:TCC2(Coordinate)

**Array Microphone**

Device Sennheiser:TCC2(Coordi ▾

Device IP 192.168.5.123

Port 45

Connect ☒

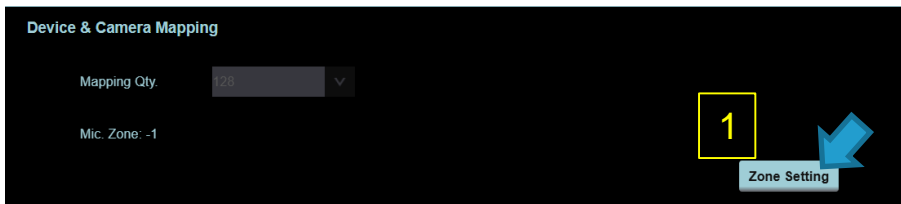
Audio Trigger Level (dB) -55

Time To Trigger Preset 0.5 Sec ▾

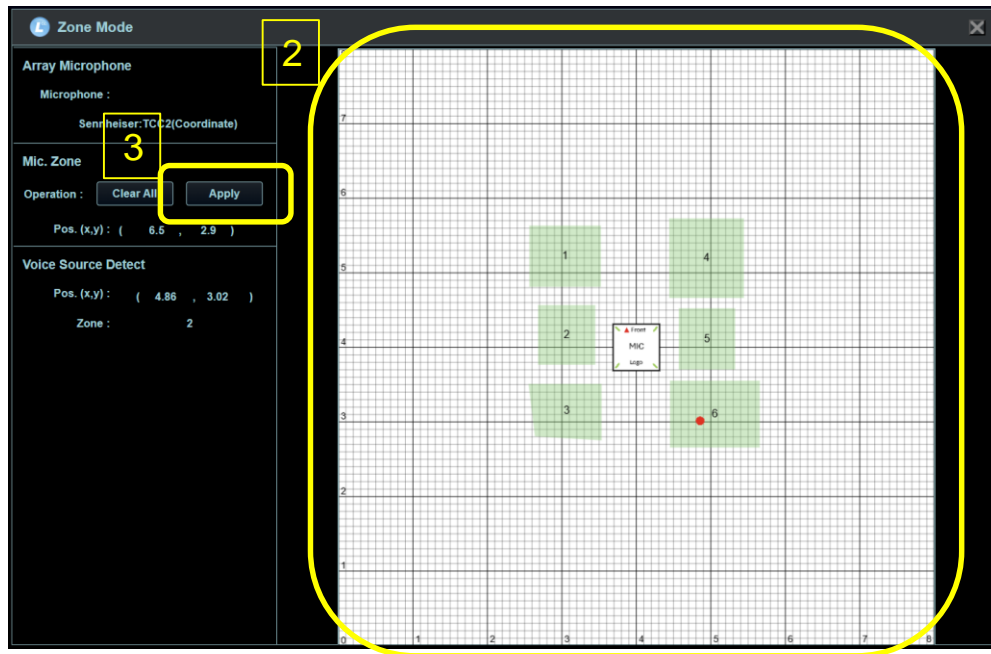
Back to Home Set

Apply Cancel

# Defining Zones for Microphone 1



1. After microphone is connected then press Zone setting for drawing sound picking area



2. When drawing zones, the red dot indicates the detected voice location. Please draw the zone around the red dot, and click **Apply** when finished.

Note: the red dot will move, so the four corners of the zone you draw can be adjusted independently. This process may require repeated fine-tuning

3. Please remember to press Apply when finished

# Mapping camera and presets for microphone 1 Zones

Device & Camera Mapping

Mapping Qty.

Mic. Zone: -1

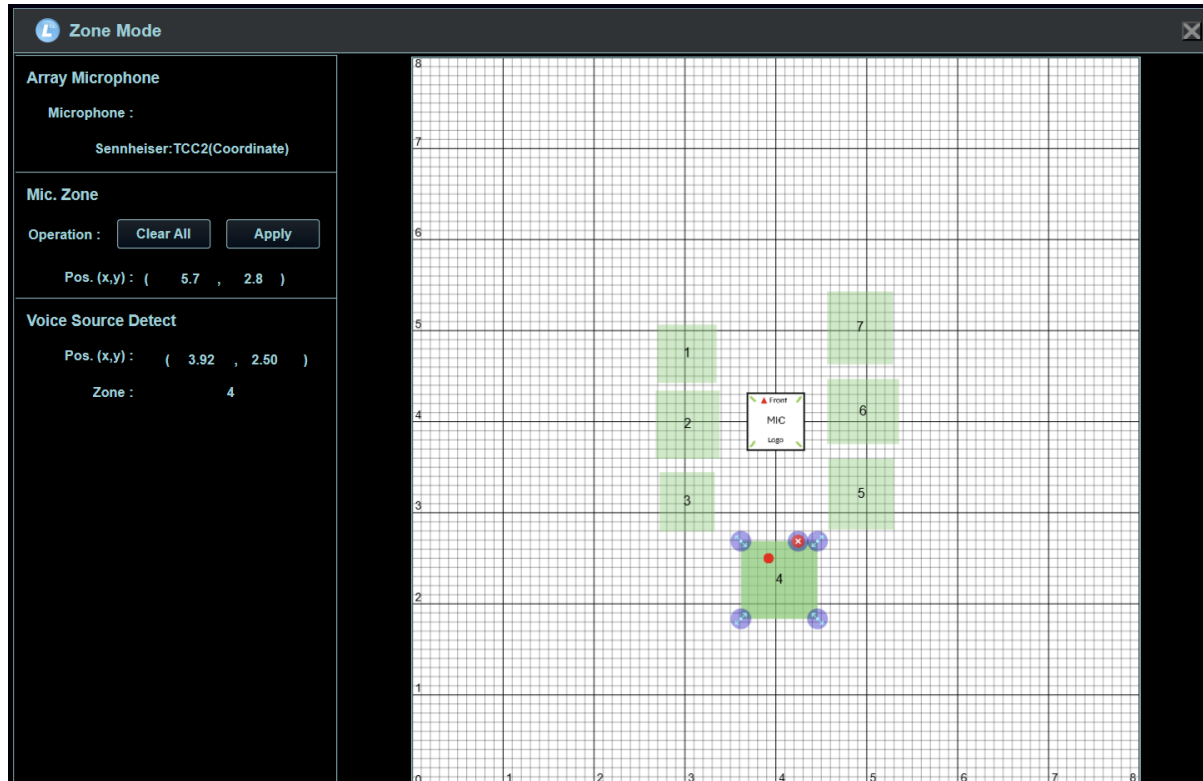
Zone No.	Primary Camera	Secondary Camera	Preset No.	AI Setting
1	VC-R31(192.168.5.117)	Off	1	Off
2	VC-R31(192.168.5.117)	Off	2	Off
3	VC-R31(192.168.5.117)	Off	3	Off
4	VC-TR30(192.168.5.120)	Off	1	Off
5	VC-TR30(192.168.5.120)	Off	2	Off
6	VC-TR30(192.168.5.120)	Off	3	Off
7	Off	Off	7	Off
8	Off	Off	8	Off

4 **Apply** Cancel

1. Zone number corresponds as set in Zone Setting
2. Assigns cameras and preset per zone
3. Put the preset number of camera
4. Press Apply after mapping each camera and preset per zone or when making changes



# Defining Zones for Microphone 2



1. The same applies for Microphone 2 as shown in Microphone 1, here show the zone for microphone 2

# Mapping camera and presets for microphone 2 Zones

**Device & Camera Mapping**

Mapping Qty.  ▼

Mic. Zone: -1

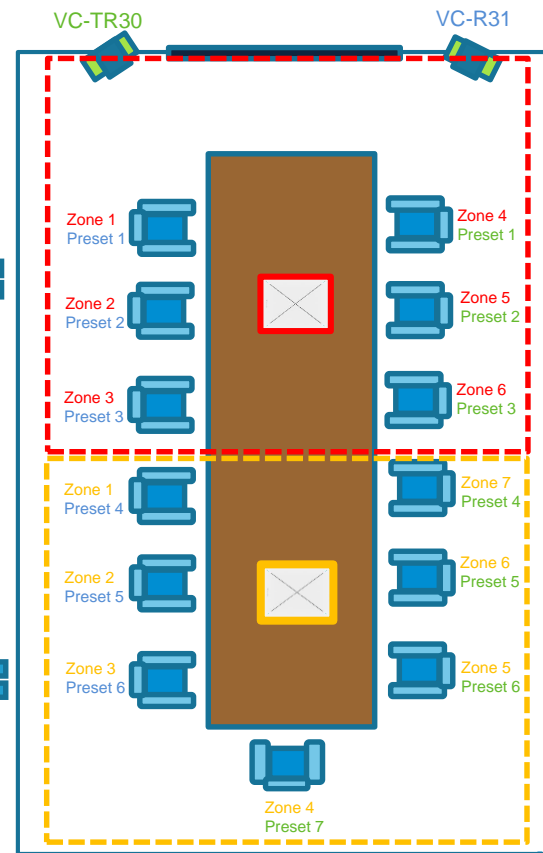
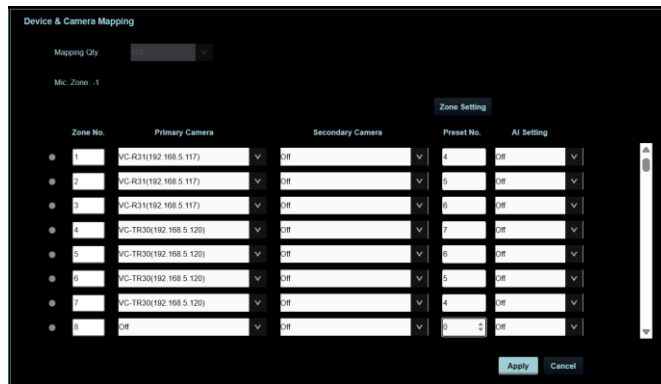
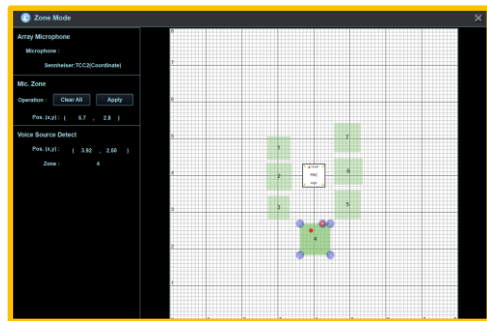
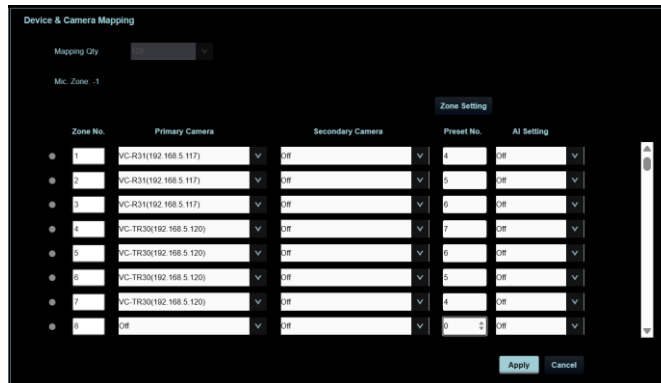
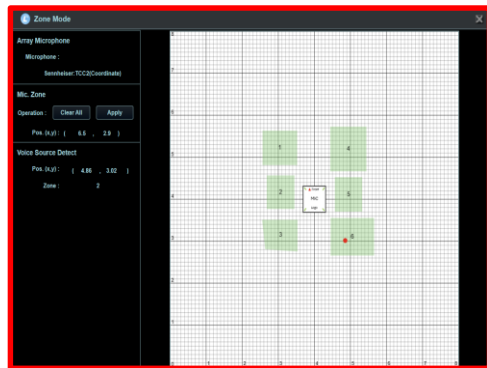
**Zone Setting**

Zone No.	Primary Camera	Secondary Camera	Preset No.	AI Setting
1	VC-R31(192.168.5.117) ▼	Off ▼	4	Off ▼
2	VC-R31(192.168.5.117) ▼	Off ▼	5	Off ▼
3	VC-R31(192.168.5.117) ▼	Off ▼	6	Off ▼
4	VC-TR30(192.168.5.120) ▼	Off ▼	7	Off ▼
5	VC-TR30(192.168.5.120) ▼	Off ▼	6	Off ▼
6	VC-TR30(192.168.5.120) ▼	Off ▼	5	Off ▼
7	VC-TR30(192.168.5.120) ▼	Off ▼	4	Off ▼
8	Off ▼	Off ▼	0 ▼	Off ▼

**Apply** **Cancel**

Same applies as in microphone 1, and hit apply when mapping or making changes

# Defining Zones for Microphone 1 & 2



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# Microphone 1 and 2 confirmation

Orange LED

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Microphone Setting

Array Microphone Numbers

Voice Tracking

1. Sennheiser:TCC2(Coordinate) 2. Sennheiser:TCC2(Coordinate)

**Array Microphone**

Device: Sennheiser:TCC2(Coordinate)

Device IP: 192.168.5.123

Port: 85

Connect: ☒

Audio Trigger Level (dB): -55

Time To Trigger Preset: 5 Sec

Back to Home: Set

Apply Cancel

**Device & Camera Mapping**

Mapping Qty: 1

Mic. Zone: 6

Zone No.	Primary Camera	Secondary Camera	Preset No.
1	VC-R31(192.168.5.117)	Off	1
2	VC-R31(192.168.5.117)	Off	2
3	VC-R31(192.168.5.117)	Off	3
4	VC-TR30(192.168.5.120)	Off	1
5	VC-TR30(192.168.5.120)	Off	2
6	VC-TR30(192.168.5.120)	Off	3
7	Off	Off	7
8	Off	Off	8

Zone Setting

Start Video Output

Login Role : Administrator

1. Voice tracking is OFF
2. Orange means, zone 6 data is received but no camera or preset is triggered

# Microphone 1 and 2 confirmation

Green LED

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**Microphone Setting**

Array Microphone Numbers 2

Voice Tracking ☒

1. Sennheiser:TCC2(Coordinate) 2. Sennheiser:TCC2(Coordinate)

**Array Microphone**

Device: Sennheiser TCC2(Coord)

Device IP: 192.168.5.123

Port: 45

Connect: ☒

Audio Trigger Level (dB): 55

Time to Trigger Preset: 5 sec

Back to Home: Set

Apply Cancel

**Device & Camera Mapping**

Mapping Qty: 28

Mic. Zone: 1

Zone Setting

Zone No.	Primary Camera	Secondary Camera	Preset No.
1	VC-R31(192.168.5.117)	Off	1
2	VC-R31(192.168.5.117)	Off	2
3	VC-R31(192.168.5.117)	Off	3
4	VC-TR30(192.168.5.120)	Off	1
5	VC-TR30(192.168.5.120)	Off	2
6	VC-TR30(192.168.5.120)	Off	3
7	Off	Off	7
8	Off	Off	8

Start Video Output

Login Role : Administrator

1. Voice tracking is ON.
2. Green means trigger time is exceed, and camera and preset is called to that Zone location

# Thank You!



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