



***Lumens***<sup>®</sup>

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

# Prepare

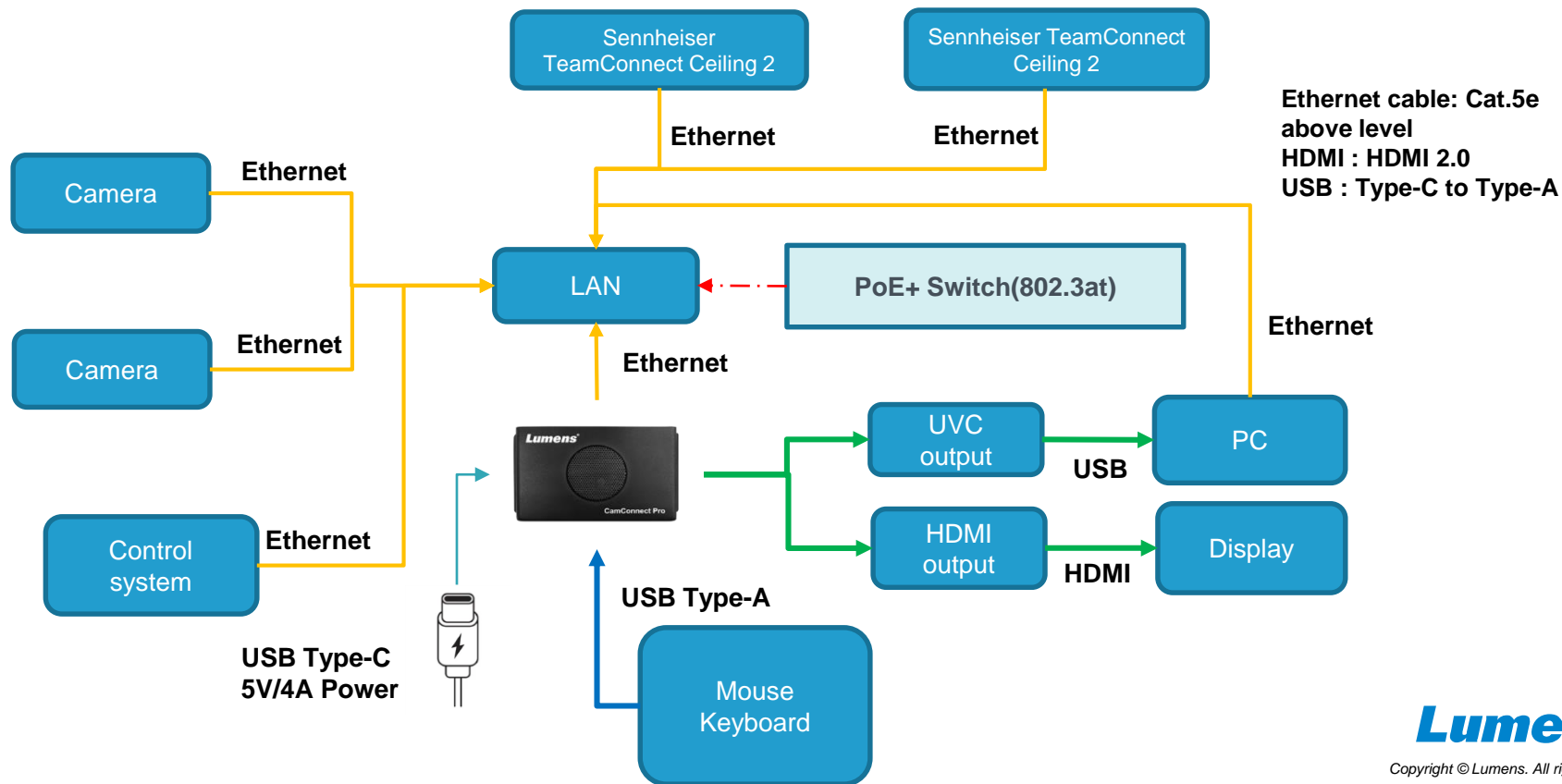
This document uses **Sennheiser TeamConnect Ceiling 2** as an example of setting.

- 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.**

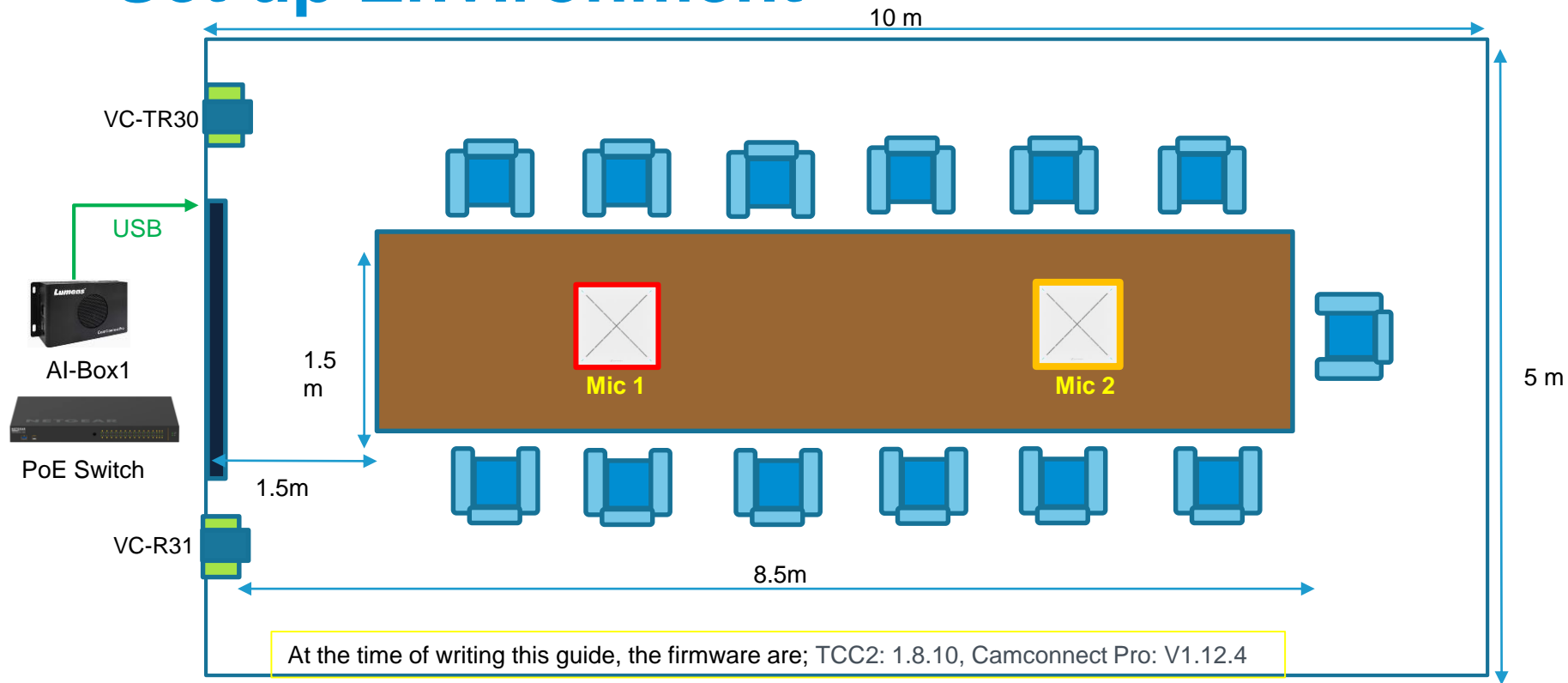


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# Set up Environment

Your Reliable Partner



TCC2



Seat



Lumens  
Camera



Mic 1



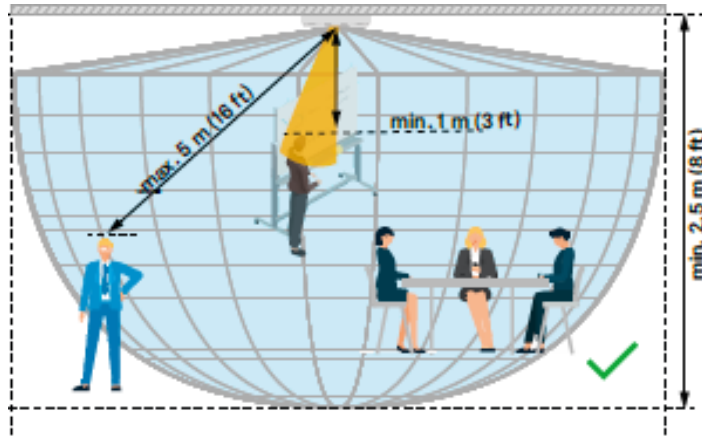
Mic 2

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# Sennheiser TeamConnect Ceiling 2 Setting tips

# Coverage and Installation



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

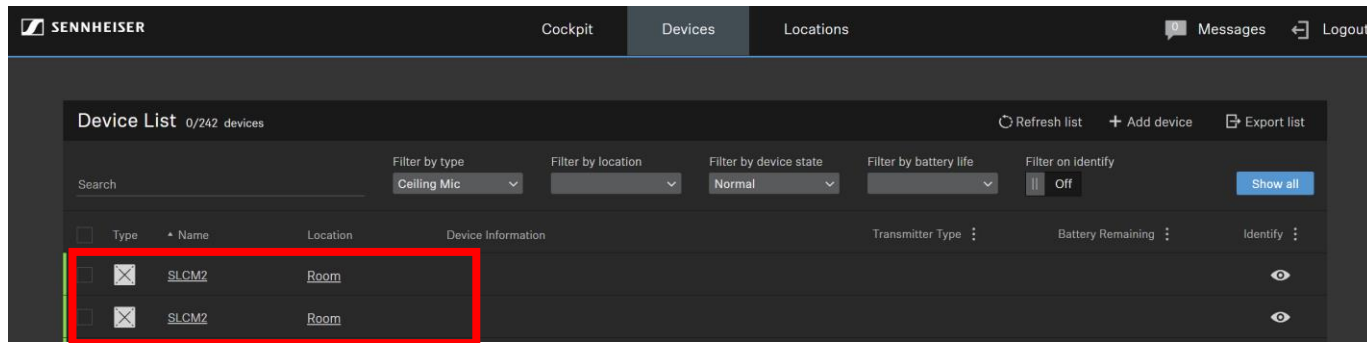
- The distance between the TCC2 and the farthest presenter is a maximum of 5 m (16 ft).
- The distance between the TCC2 and the closest presenter is at least 0.5 m (1.6 ft).
- The distance between the TCC2 and the floor is at least 2.50 m (8 ft).

## 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
***	***

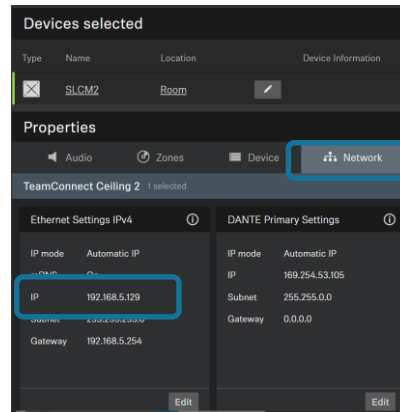
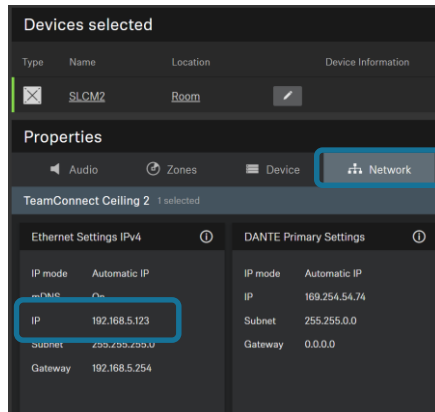
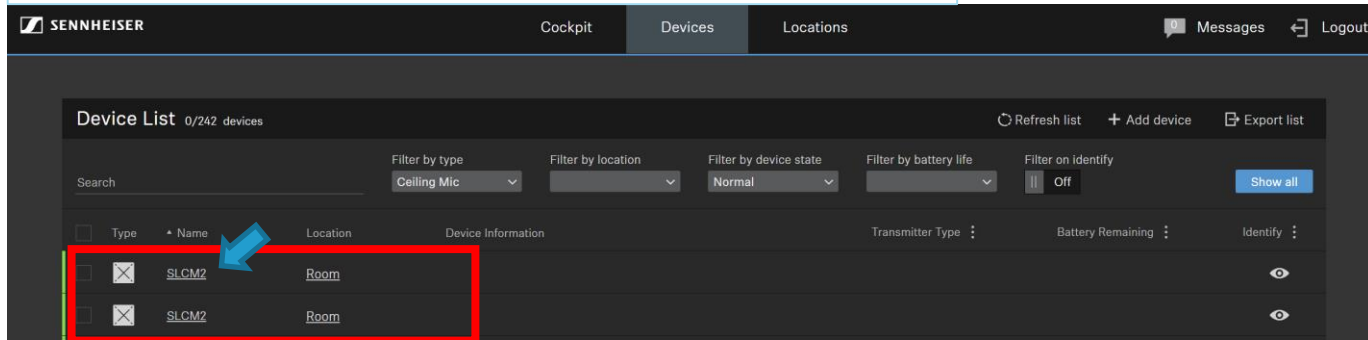
# Microphone Setting

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

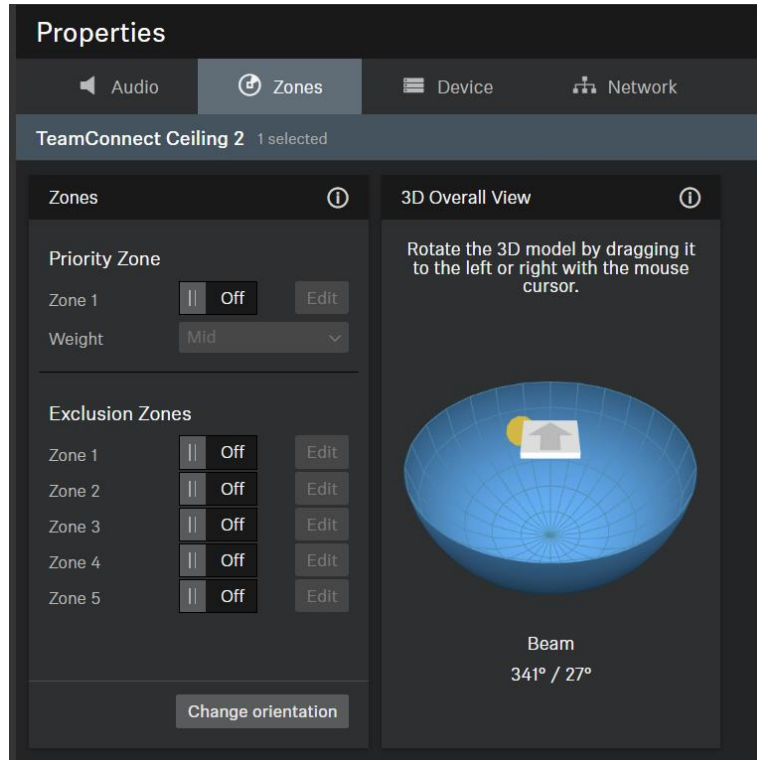
1. Keep the setting as default in Audio page

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

- Sound Profile:** 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 (currently 'Deactivated').
- TruVoicelift Settings:** Includes a 'TruVoicelift' toggle (currently '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 (currently 'Deactivated'), a 'Threshold' slider (ranging from -90 to -40 dB), and a 'Hold Time' slider (ranging from 50 to 1000 ms).
- Audio Output (analog):** Includes an analog output level slider (ranging from -18 to 0 dB).
- Audio Output (digital):** Includes a digital output level slider (ranging from 0 to +24 dB).
- Location-based Mute:** A toggle switch currently set to 'Deactivated'.
- Mute:** A toggle switch currently set to 'Deactivated'.
- Sensitivity Threshold:** Set to 'Normal'.
- Installation Type:** Set to 'Flush mount'.
- Microphone Level:** A bar graph showing the current microphone level.
- Audio Default Settings:** A section with a reset button and the text 'Click to enable reset'.

# Microphone Setting

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



# 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.

Device Access

Password

Device Access

Password Lumens@123

OK Cancel

TeamConnect Ceiling Medium 1 selected

3rd Party Access

Secure API Activated

Username api

Password (Unknown)

Device Access

Password

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 ☒

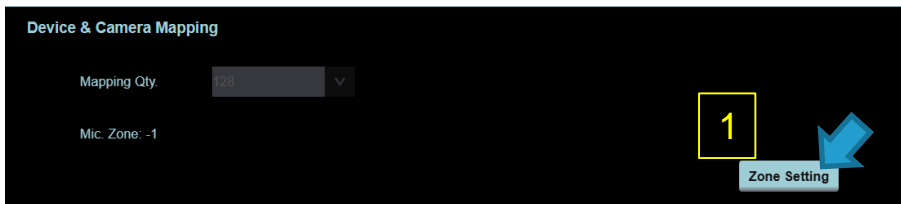
Audio Trigger Level (dB) -55

Time To Trigger Preset 0.5 Sec ▾

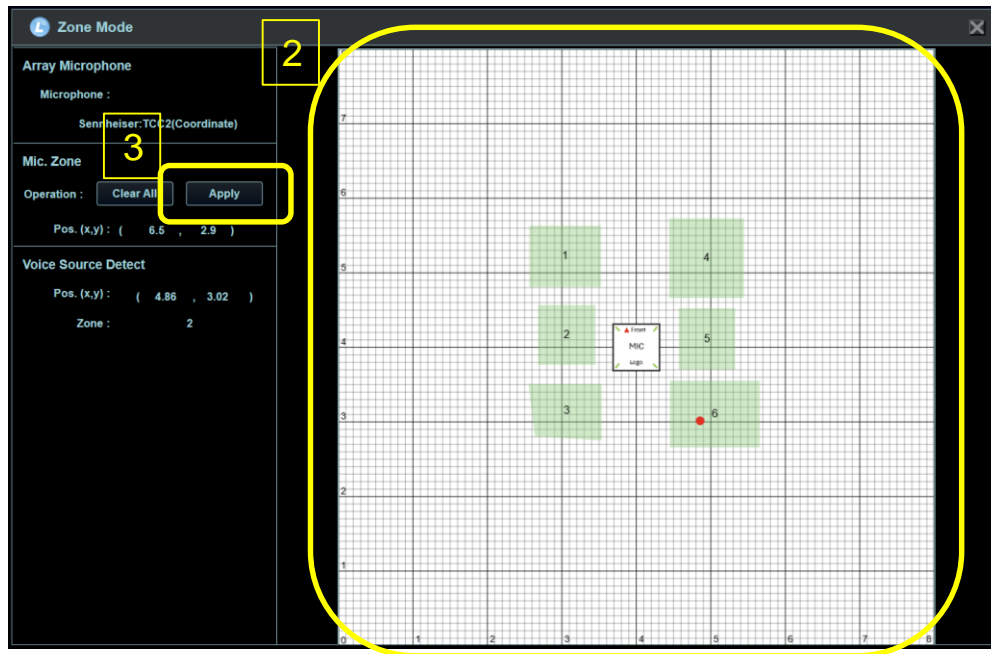
Back to Home Set

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. 128

Mic. Zone: -1

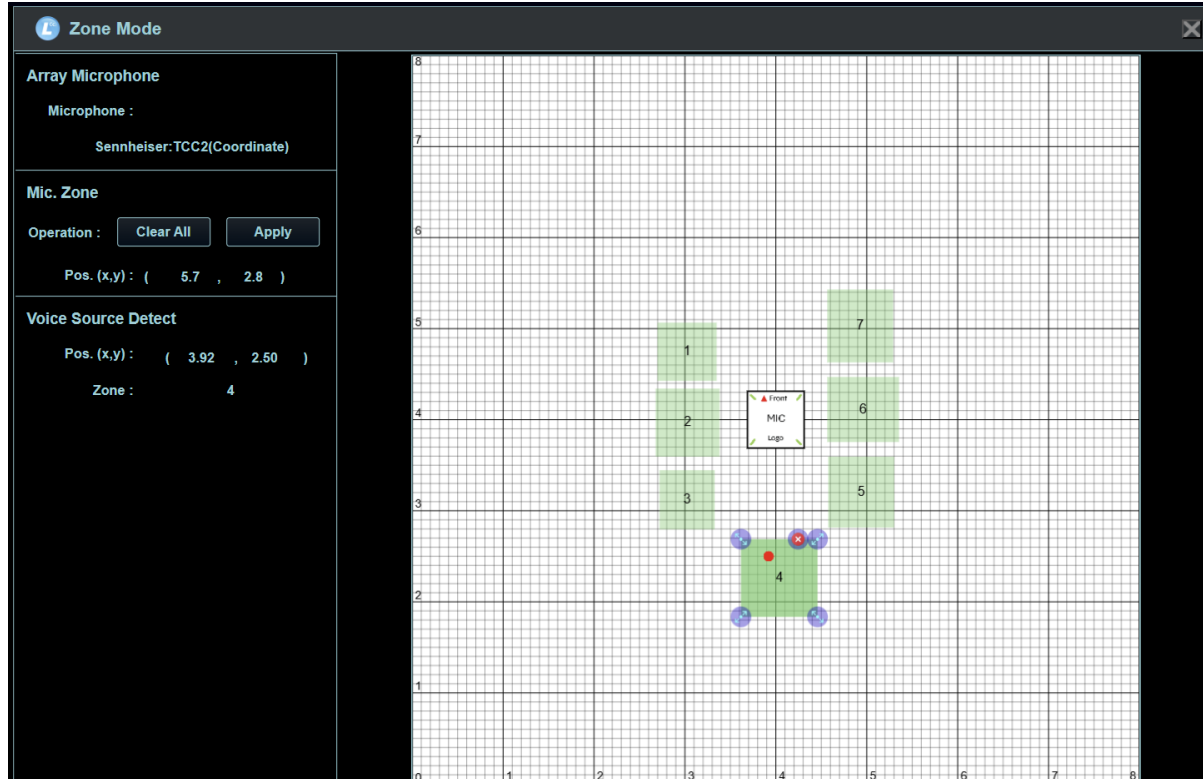
Zone No.	Primary Camera	Secondary Camera	Preset No.	AI Setting
1	VC-R31(192.168.5.117)	Off	1	Off
2	VC-R31(192.168.5.117)	Off	2	Off
3	VC-R31(192.168.5.117)	Off	3	Off
4	VC-TR30(192.168.5.120)	Off	1	Off
5	VC-TR30(192.168.5.120)	Off	2	Off
6	VC-TR30(192.168.5.120)	Off	3	Off
7	Off	Off	7	Off
8	Off	Off	8	Off

Zone Setting

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

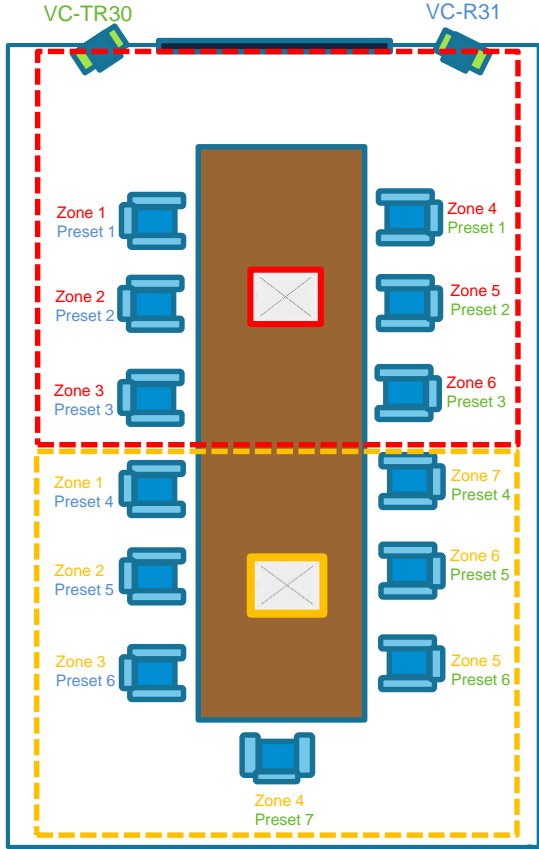
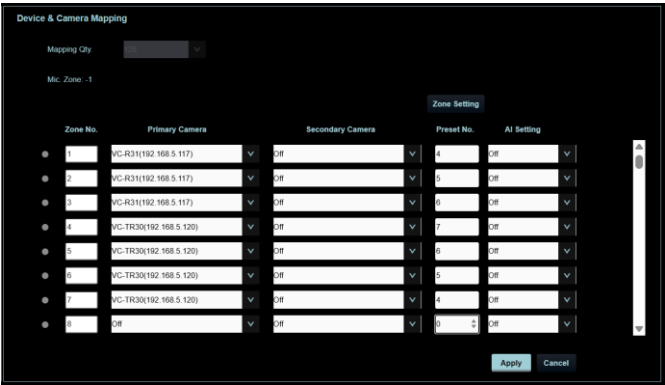
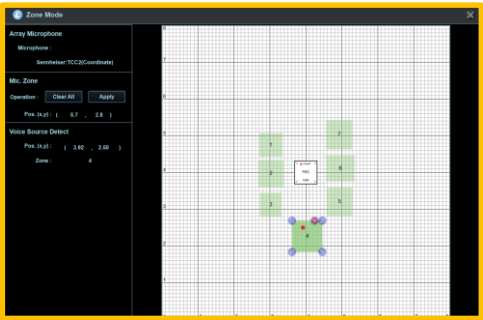
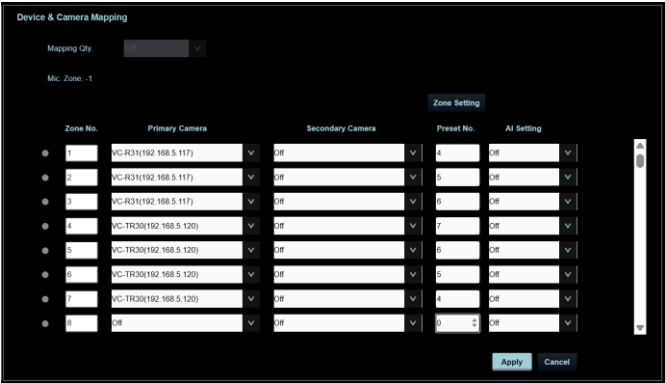
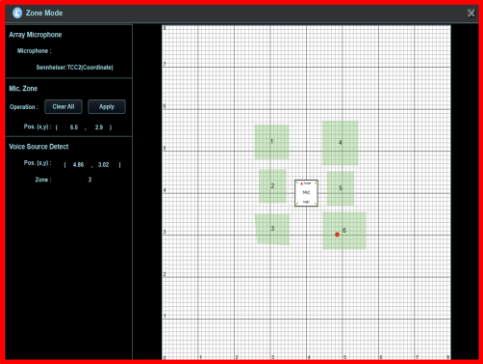
**Zone Setting**

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



# Microphone 1 and 2 confirmation

Orange 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(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: 2

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

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

**1**

**2**

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

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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