

**Lumens®**

CamConnect Pro &  
Sennheiser TCC2  
Zone Mode  
Setting Guide

**Lumens®**

# 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

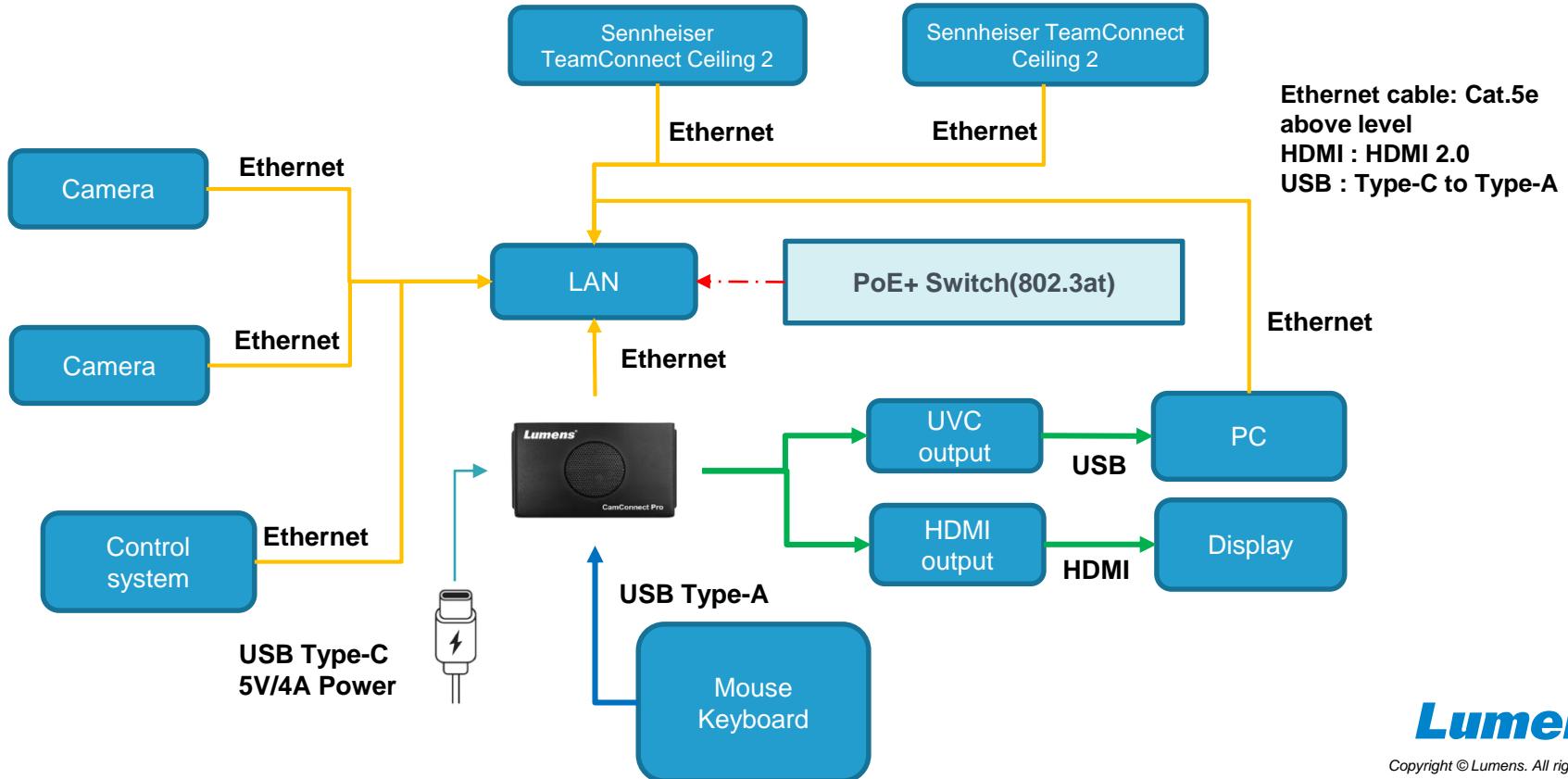
# Prepare

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

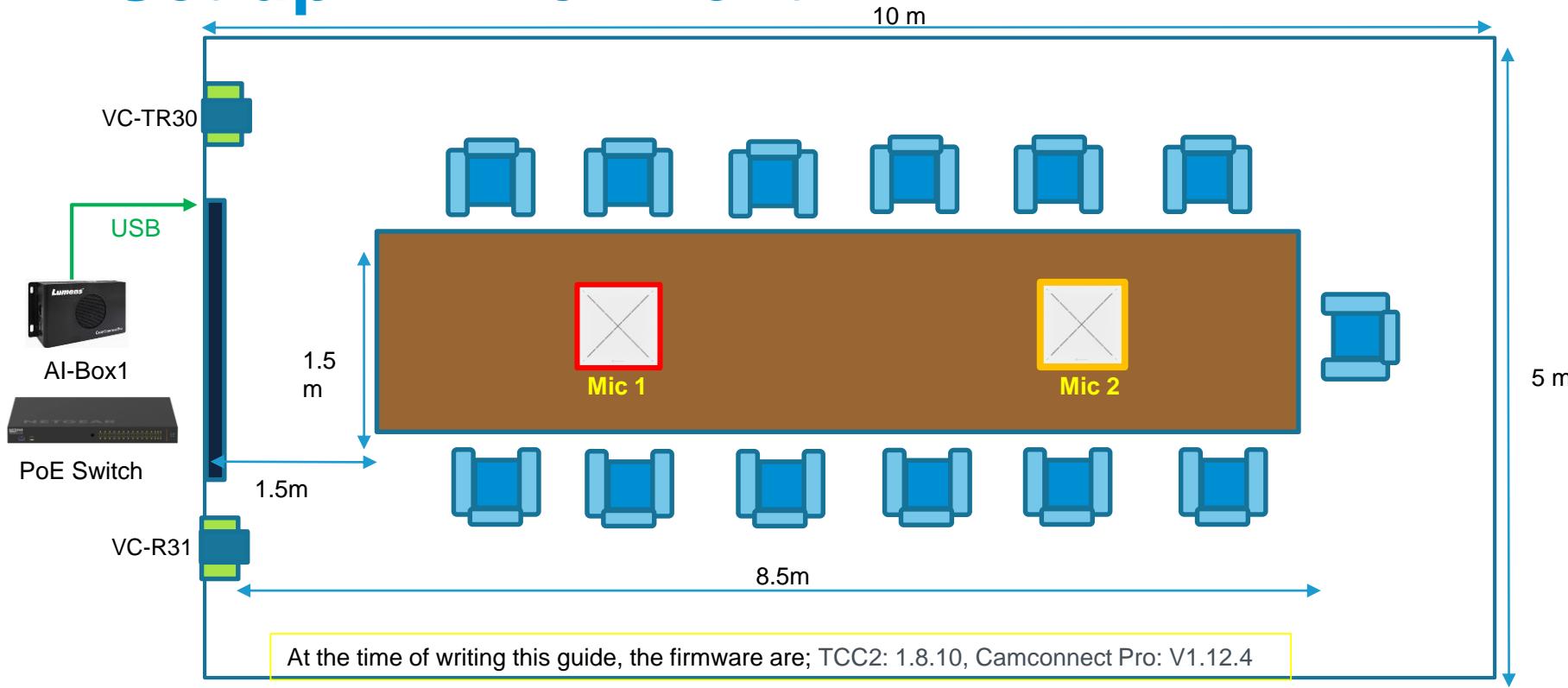
- Please install Sennheiser TeamConnect Ceiling 2 microphone, Lumens CamConnect processor and Lumens PTZ cameras in the same LAN (same class C network).
- For the first installation, you need to prepare a router or Switch with DHCP server function.
- Sennheiser TeamConnect Ceiling 2 installed in the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

# Set up Environment

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



# Set up Environment



TCC2



Seat



Lumens Camera



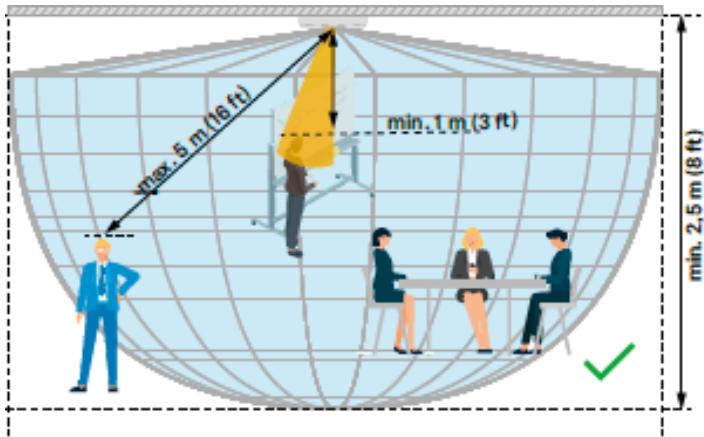
Mic 1



Mic 2

# Sennheiser TeamConnect Ceiling 2 Setting tips

# Coverage and Installation



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

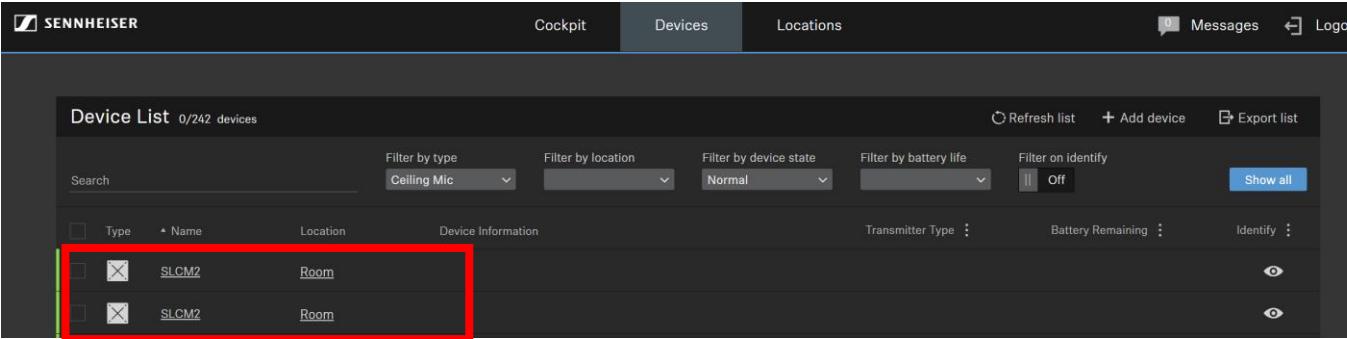
- The distance between the TCC2 and the farthest presenter is a maximum of 5 m (16 ft).
- The distance between the TCC2 and the closest presenter is at least 0.5 m (1.6 ft).
- The distance between the TCC2 and the floor is at least 2.50 m (8 ft).

## 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.

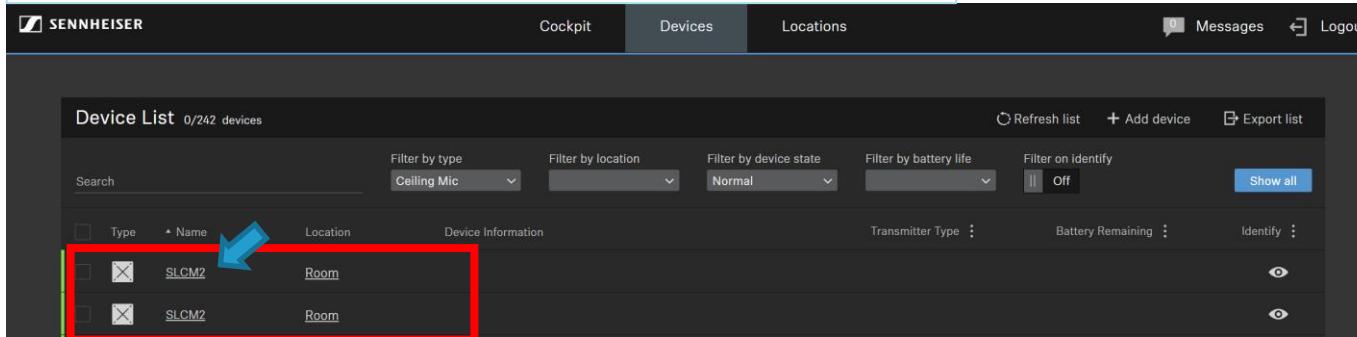


The screenshot shows the Sennheiser Control Cockpit software interface. At the top, there is a navigation bar with tabs for 'Cockpit', 'Devices', and 'Locations'. On the right side of the top bar are 'Messages' (0 notifications), 'Logout', and a 'Devices' icon. Below the navigation bar is a 'Device List' section with the sub-header '0/242 devices'. The section includes a search bar and several filter options: 'Filter by type' (set to 'Ceiling Mic'), 'Filter by location' (dropdown menu), 'Filter by device state' (set to 'Normal'), 'Filter by battery life' (dropdown menu), 'Filter on identify' (set to 'Off'), and a 'Show all' button. The main table displays two rows of data, each representing a device. The columns are: a checkbox, 'Type' (with an 'X' icon), 'Name' (SLCM2), 'Location' (Room), 'Device Information' (empty), 'Transmitter Type' (dropdown menu), 'Battery Remaining' (empty), and 'Identify' (two eye icons). The second row is highlighted with a red rectangular box.

	Type	Name	Location	Device Information	Transmitter Type	Battery Remaining	Identify
<input type="checkbox"/>	X	SLCM2	Room				
<input type="checkbox"/>	X	SLCM2	Room				

# Microphone Setting

## 1. Get TCC2 IP for CamConnect Pro, Click TCC2



Device List 0/242 devices

Filter by type: Ceiling Mic

Filter by location: Room

Filter by device state: Normal

Filter by battery life: Off

Filter on identify: Show all

Type	Name	Location	Device Information	Transmitter Type	Battery Remaining	Identify
<input type="checkbox"/>	SLCM2	Room				
<input type="checkbox"/>	SLCM2	Room				

Devices selected

Type	Name	Location	Device Information
<input type="checkbox"/>	SLCM2	Room	

Properties

Network tab selected

TeamConnect Ceiling 2 1 selected

Ethernet Settings IPv4	DANTE Primary Settings
IP mode: Automatic IP	IP mode: Automatic IP
IP: 192.168.5.123	IP: 169.254.54.74
Subnet: 255.255.255.0	Subnet: 255.255.0.0
Gateway: 192.168.5.254	Gateway: 0.0.0.0

Properties

Network tab selected

TeamConnect Ceiling 2 1 selected

Ethernet Settings IPv4	DANTE Primary Settings
IP mode: Automatic IP	IP mode: Automatic IP
IP: 192.168.5.129	IP: 169.254.53.105
Subnet: 255.255.0.0	Subnet: 255.255.0.0
Gateway: 192.168.5.254	Gateway: 0.0.0.0

# Microphone Setting

## 1. Keep the setting as default in Audio page

Properties

Audio Zones Device Network

TeamConnect Ceiling 2 1 selected

Sound Profile

Off

Input Level (digital)

Manual gain

Level

Gain

-60 0 dB +9

Show far end activity on LEDs

Deactivated

TruVoicelift Settings

TruVoicelift

Deactivated

Mute Threshold

-50 -20 dB -3

Mute Interval Time

1.0 3 s 30.0

Noise Gate Settings

Noise Gate

Deactivated

Threshold

-90 -80 dB -40

Hold Time

50 350 ms 1000

Audio Output (analog)

-18 0 dB 0

Microphone Level

0

Audio Output (digital)

0 12 dB +24

Location-based Mute

Deactivated

Mute

Deactivated

Sensitivity Threshold

Normal

Installation Type

Flush mount

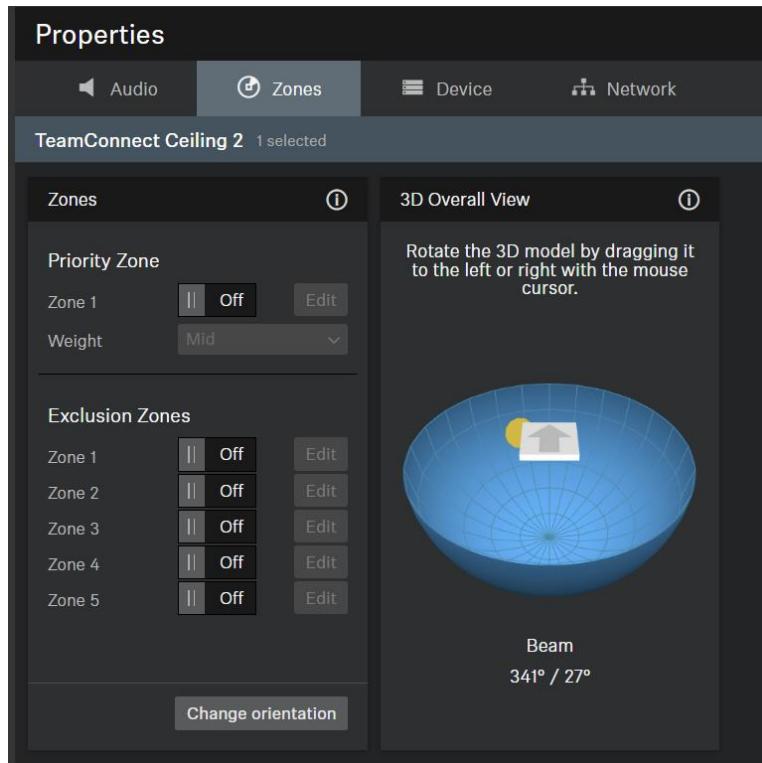
Audio Default Settings

Click to enable reset

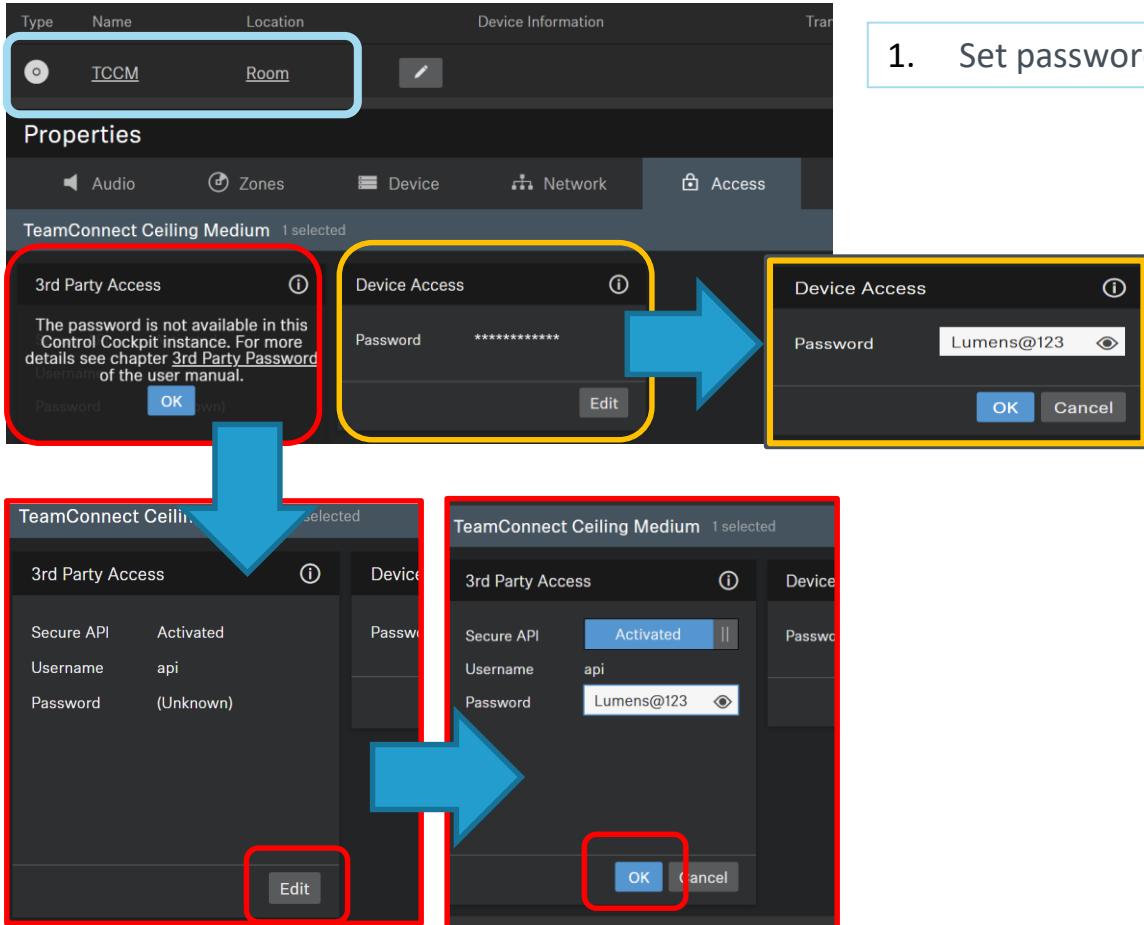
OK

# Microphone Setting

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

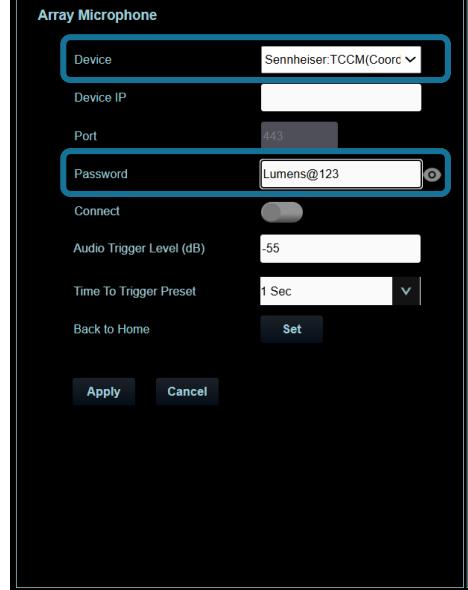


# Microphone Setting – For TCCM



## 1. Set password when using TCCM

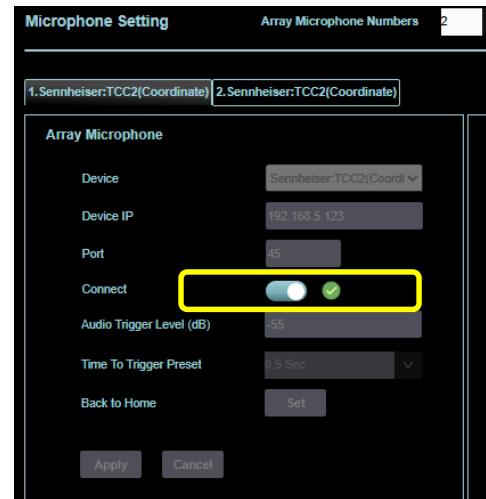
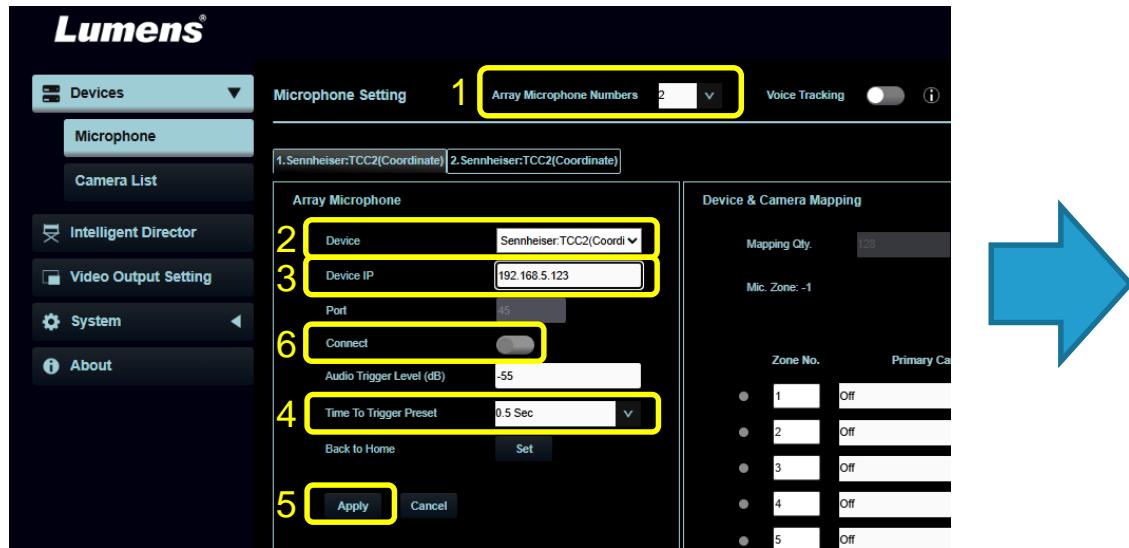
## CamConnect Pro Setting



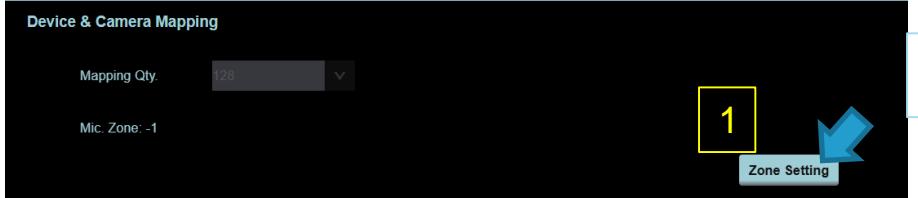
# CamConnect Pro Setting tips

# Connection TCC2 and Camconnect Pro

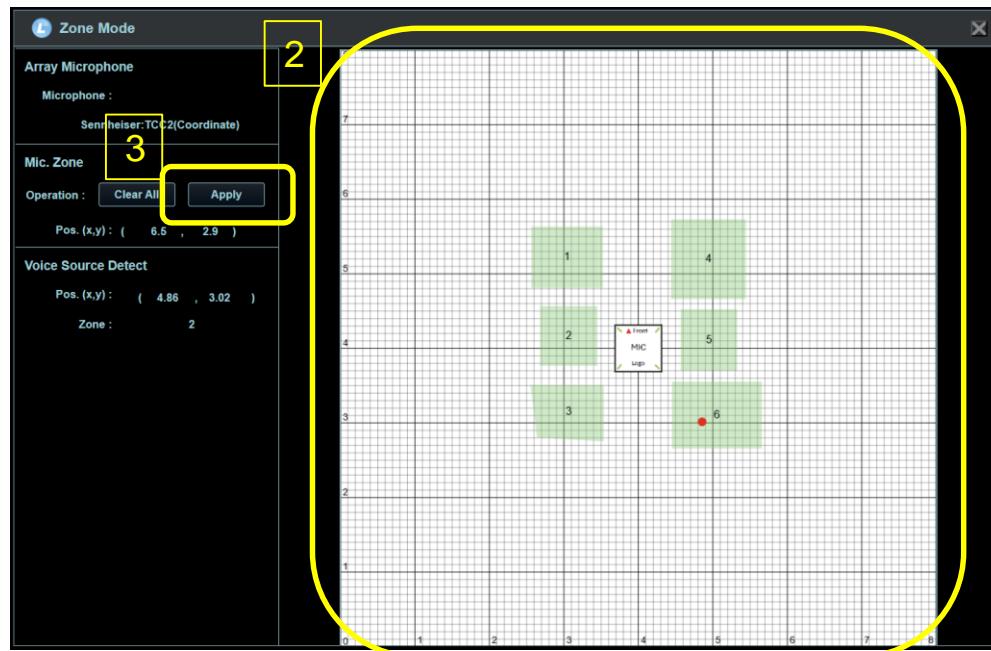
1. Array Microphone Numbers select base on installed amount
2. Select , Sennheiser TCC2 (Coordinate), 1 tab for each microphone.
3. Enter Microphone`s IP.
4. Select trigger time (how long a person should take in a zone for camera preset to be triggered).
5. Hit Apply.
6. Connect with toggle button.



# 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

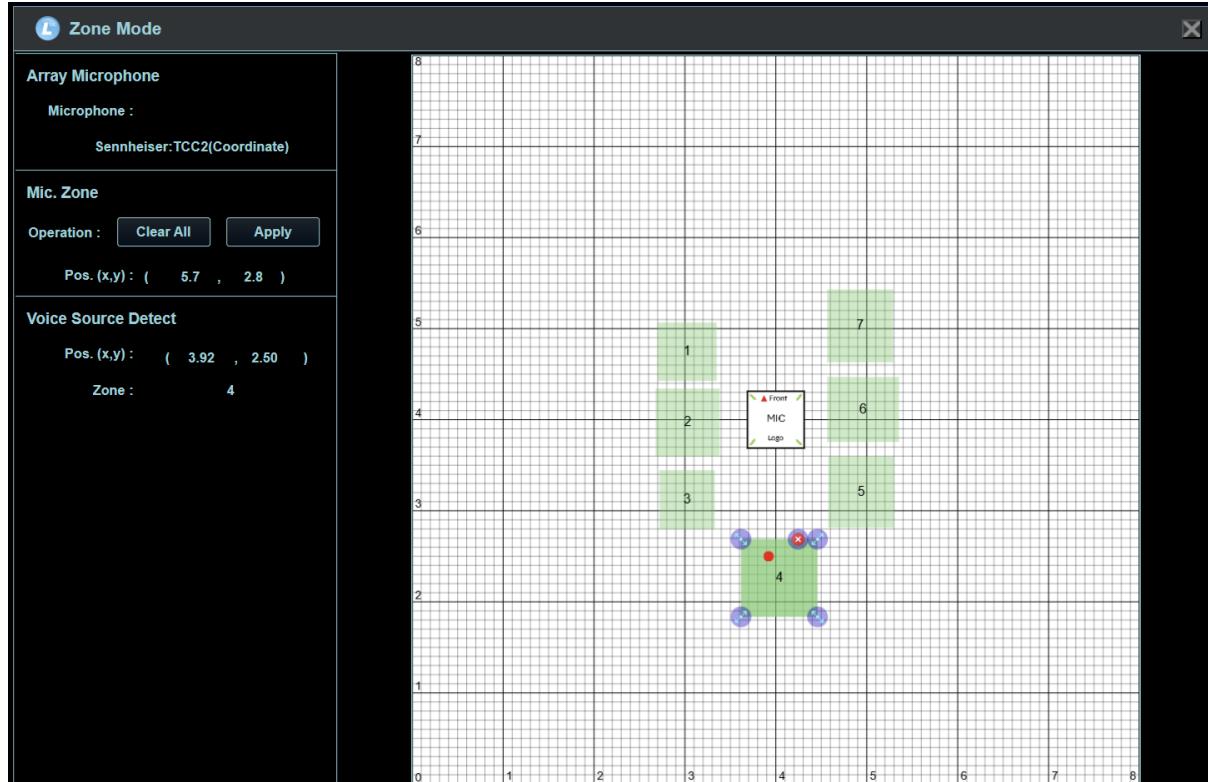
3. Please remember to press **Apply** when finished

# Mapping camera and presets for microphone 1 Zones



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. 128

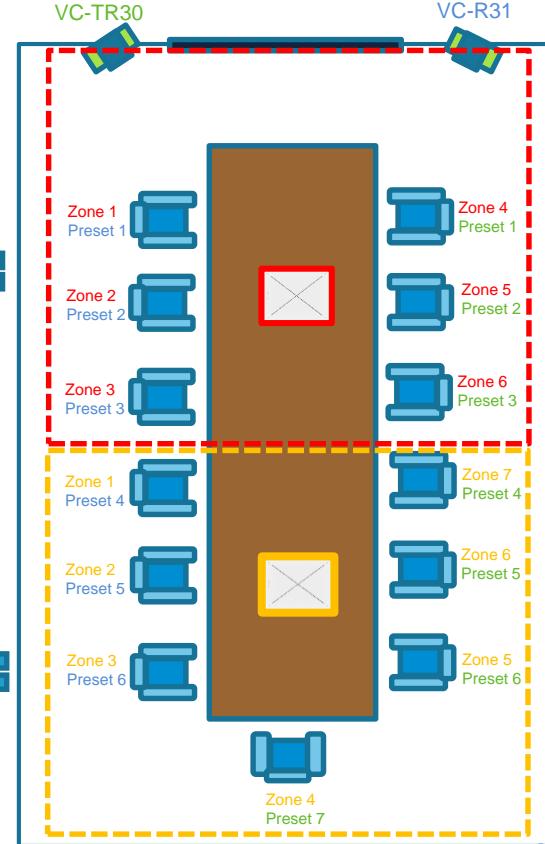
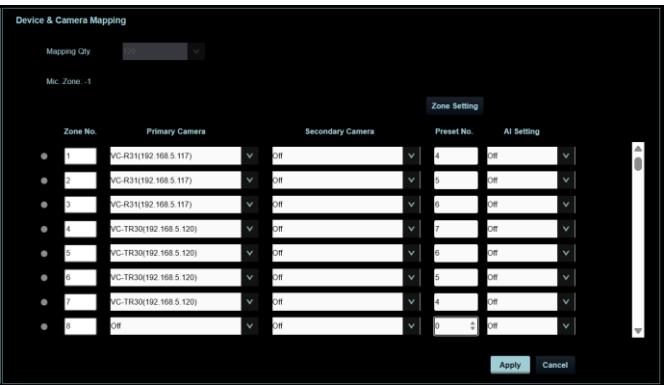
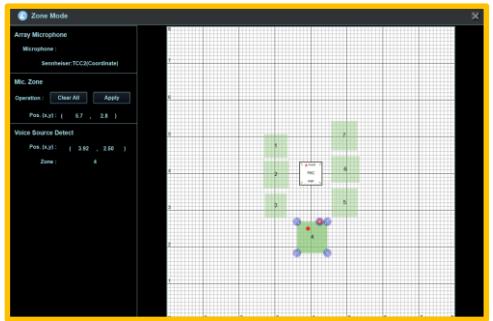
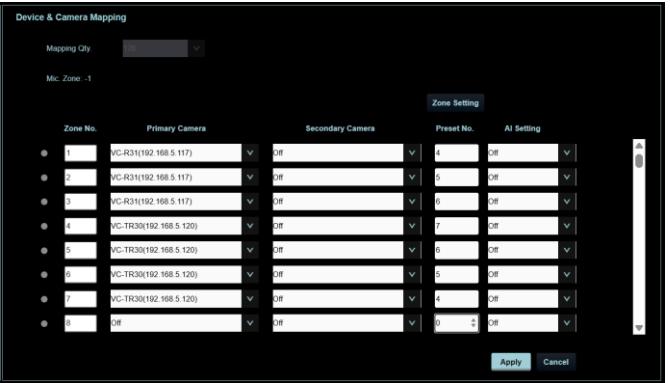
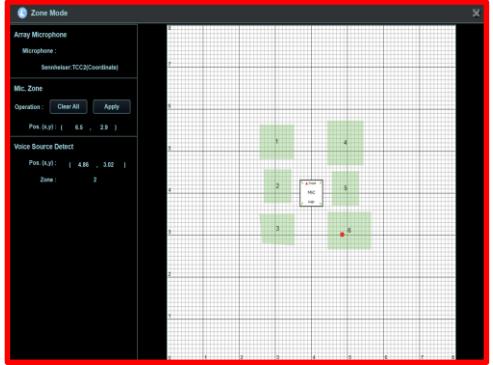
Mic. Zone: -1

Zone No.	Primary Camera	Secondary Camera	Zone Setting	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

The screenshot shows the Lumens software interface with the following details:

- Microphone Setting:** Shows "Array Microphone Numbers" set to 2. A yellow box labeled "1" highlights the "Voice Tracking" toggle switch, which is off (gray).
  - Below it, a sub-section shows "1.Sennheiser:TCC2(Coordinate)" and "2.Sennheiser:TCC2(Coordinate)".
- Device & Camera Mapping:** Shows "Mapping Qty" set to 128. "Mic. Zone: 6".
  - Zone Setting:** A table with columns: Zone No., Primary Camera, Secondary Camera, and Preset No.
    - Zone 1: VC-R31(192.168.5.117), Secondary Camera: Off, Preset No: 1
    - Zone 2: VC-R31(192.168.5.117), Secondary Camera: Off, Preset No: 2
    - Zone 3: VC-R31(192.168.5.117), Secondary Camera: Off, Preset No: 3
    - Zone 4: VC-TR30(192.168.5.120), Secondary Camera: Off, Preset No: 1
    - Zone 5: VC-TR30(192.168.5.120), Secondary Camera: Off, Preset No: 2
    - Zone 6:** VC-TR30(192.168.5.120), Secondary Camera: Off, Preset No: 3. This row is highlighted with a yellow box labeled "2".
    - Zone 7: Off, Preset No: 7
    - Zone 8: Off, Preset No: 8

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

Lumens

Devices Microphone Camera List Intelligent Director Video Output Setting System About Start Video Output Login Role : Administrator

Microphone Setting Array Microphone Numbers 2 1. Sennheiser:TCC2(Coordinate) 2. Sennheiser:TCC2(Coordinate)

Voice Tracking

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

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

Device & Camera Mapping

Mapping Qty: 128 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

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

# Thank You!

[MyLumens.com](http://MyLumens.com)

Contact Lumens

