



Lumens[®]

**CamConnect Pro &
Sennheiser
TCC2_TCCM
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

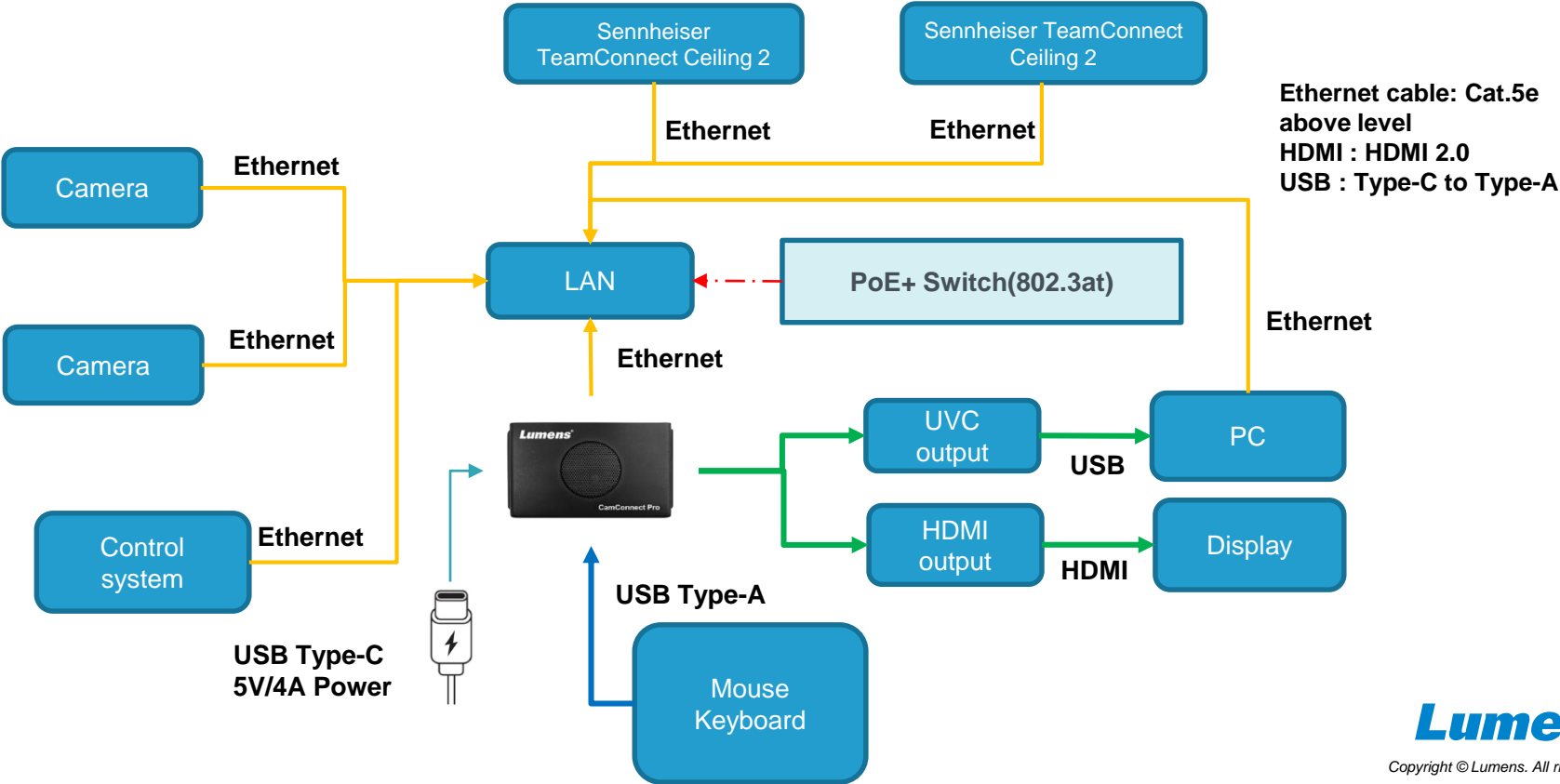
Prepare

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

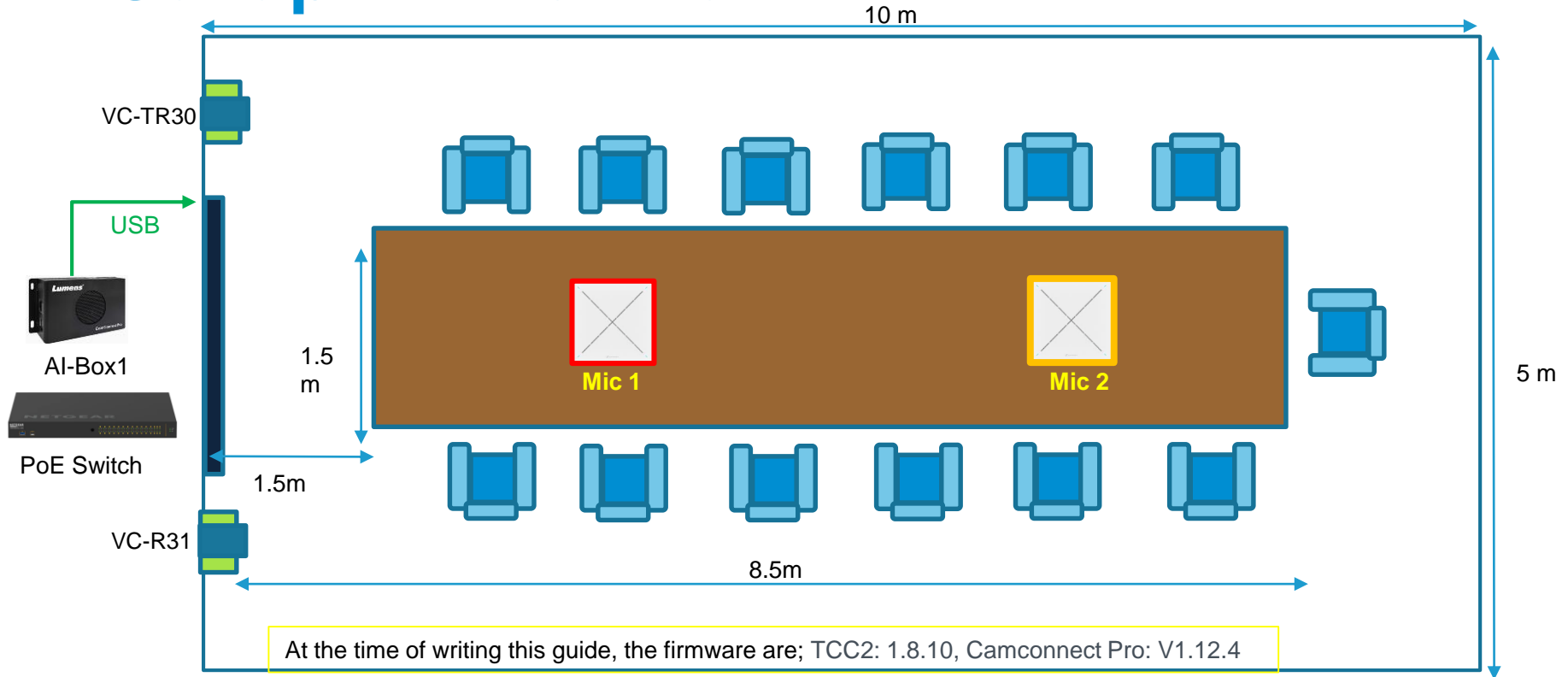
- Please install Sennheiser TeamConnect Ceiling 2 microphone, Lumens CamConnect processor and Lumens PTZ cameras in the same LAN (same class C network).
- For the first installation, you need to prepare a router or Switch with DHCP server function.
- Sennheiser TeamConnect Ceiling 2 installed in the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

Set up Environment

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

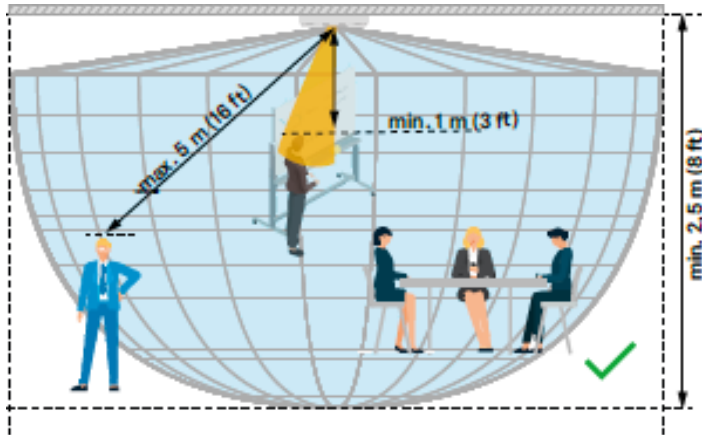


Fig. 12: Correct installation in or below the ceiling

- 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 ² (ft ²)	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 Cockpit web interface. At the top, there are navigation tabs for 'Cockpit', 'Devices', and 'Locations'. Below the navigation, there is a 'Device List' section with a search bar and several filter options: 'Filter by type' (set to 'Ceiling Mic'), 'Filter by location', 'Filter by device state' (set to 'Normal'), 'Filter by battery life', and 'Filter on identify' (set to 'Off'). A 'Show all' button is visible on the right. Below the filters, there is a table with columns for 'Type', 'Name', 'Location', 'Device Information', 'Transmitter Type', 'Battery Remaining', and 'Identify'. Two rows of data are visible, both with 'SLCM2' in the Name column and 'Room' in the Location column. These two rows are highlighted with a red rectangular box.

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

Microphone Setting

1. Get TCC2 IP for CamConnect Pro, Click TCC2

Sennheiser Cockpit - Devices

Device List 0/242 devices

Search: [] Filter by type: Ceiling Mic Filter by location: [] Filter by device state: Normal Filter by battery life: [] Filter on identify: Off [Show all]

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

Devices selected

Type: SLCM2 Location: Room

Properties

Audio Zones Device **Network**

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	255.255.0.0	Subnet	255.255.0.0
Gateway	192.168.5.254	Gateway	0.0.0.0

Devices selected

Type: SLCM2 Location: Room

Properties

Audio Zones Device **Network**

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

The screenshot displays the 'Properties' window for a 'TeamConnect Ceiling 2' device, specifically the 'Audio' tab. The interface is organized into several panels:

- Sound Profile:** Set to 'Off'.
- Input Level (digital):** Features a 'Manual gain' dropdown, a 'Level' bar, and a 'Gain' slider ranging from -60 to +9 dB. The 'Show far end activity on LEDs' option is deactivated.
- TruVoicelift Settings:** 'TruVoicelift' is deactivated. 'Mute Threshold' is set to -20 dB, and 'Mute Interval Time' is set to 3.0 seconds.
- Noise Gate Settings:** 'Noise Gate' is deactivated. 'Threshold' is set to -80 dB, and 'Hold Time' is set to 350 ms.
- Audio Output (analog):** A slider shows the output level at 0 dB, with markers at -18 and 0.
- Microphone Level:** A bar graph shows the current microphone level.
- Audio Output (digital):** A slider shows the digital output level at 12 dB, with markers at 0 and +24.
- Location-based Mute:** Deactivated.
- Mute:** Deactivated.
- Sensitivity Threshold:** Set to 'Normal'.
- Installation Type:** Set to 'Flush mount'.
- Audio Default Settings:** A button labeled 'OK' is present, with a note 'Click to enable reset' below it.

Microphone Setting

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

The screenshot displays the 'Properties' window for a microphone, with the 'Zones' tab selected. The interface is divided into two main sections: 'Priority Zone' and 'Exclusion Zones'. In the 'Priority Zone' section, 'Zone 1' is set to 'Off' and 'Weight' is set to 'Mid'. The 'Exclusion Zones' section lists five zones, all of which are set to 'Off'. A '3D Overall View' on the right shows a blue dome-shaped beam with a home icon and a yellow sun icon. Below the 3D view, the beam is labeled 'Beam 341° / 27°'. A 'Change orientation' button is located at the bottom of the interface.

Properties

Audio **Zones** Device Network

TeamConnect Ceiling 2 1 selected

Zones 3D Overall View

Priority Zone

Zone 1 Off Edit

Weight Mid

Exclusion Zones

Zone 1 Off Edit

Zone 2 Off Edit

Zone 3 Off Edit

Zone 4 Off Edit

Zone 5 Off Edit

Change orientation

Beam
341° / 27°

Microphone Setting – For TCCM

1. Set password when using TCCM

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

3rd Party Access

Secure API Activated

Username api

Password (Unknown)

Edit

3rd Party 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

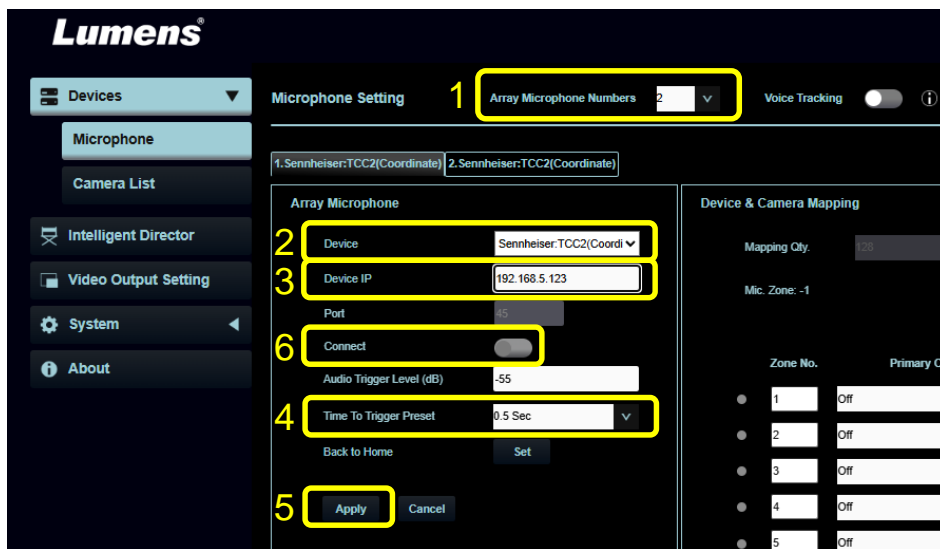
Apply Cancel

CamConnect Pro

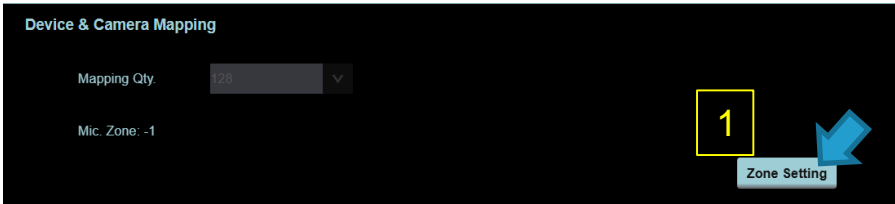
Setting tips

Connection TCC2 and Camconnect Pro

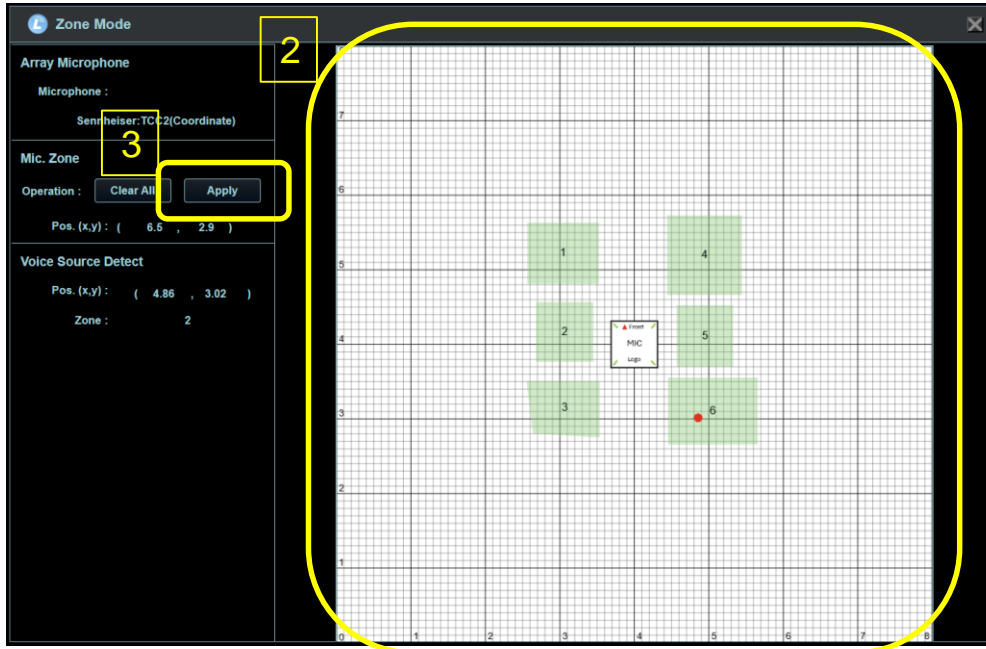
1. Array Microphone Numbers select base on installed amount
2. Select , Sennheiser TCC2 (Coordinate), 1 tab for each microphone.
3. Enter Microphone`s IP.
4. Select trigger time (how long a person should take in a zone for camera preset to be triggered).
5. Hit Apply.
6. Connect with toggle button.



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

The screenshot displays the 'Zone Mode' configuration window. On the left, there are three sections: 'Array Microphone' with 'Sennheiser:TCC2(Coordinate)', 'Mic. Zone' with 'Clear All' and 'Apply' buttons and 'Pos. (x,y) : (5.7 , 2.8)', and 'Voice Source Detect' with 'Pos. (x,y) : (3.92 , 2.50)' and 'Zone : 4'. The main area is a grid from 0 to 8 on both axes. A microphone icon labeled 'MIC' is centered at (4, 4). Seven green rectangular zones are numbered 1 through 7, arranged in a cross pattern around the microphone. Zone 4 is a smaller square at the bottom center, containing a red dot and four blue circular handles.

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. ▼

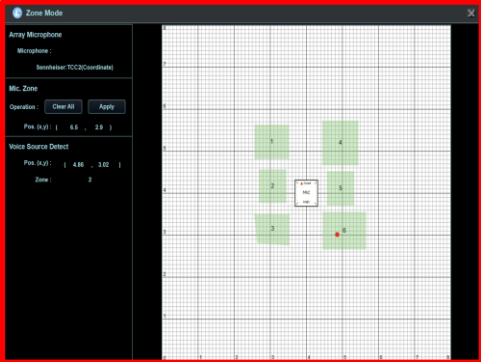
Mic. Zone: -1

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

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

Defining Zones for Microphone 1 & 2



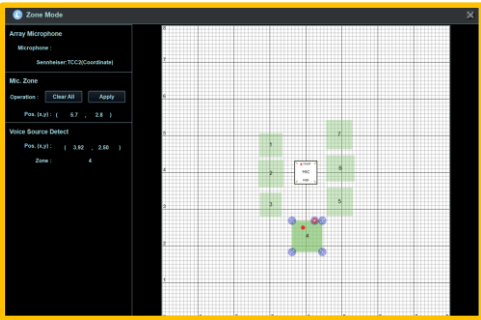
Device & Camera Mapping

Mapping Qty: [dropdown]

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	8	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



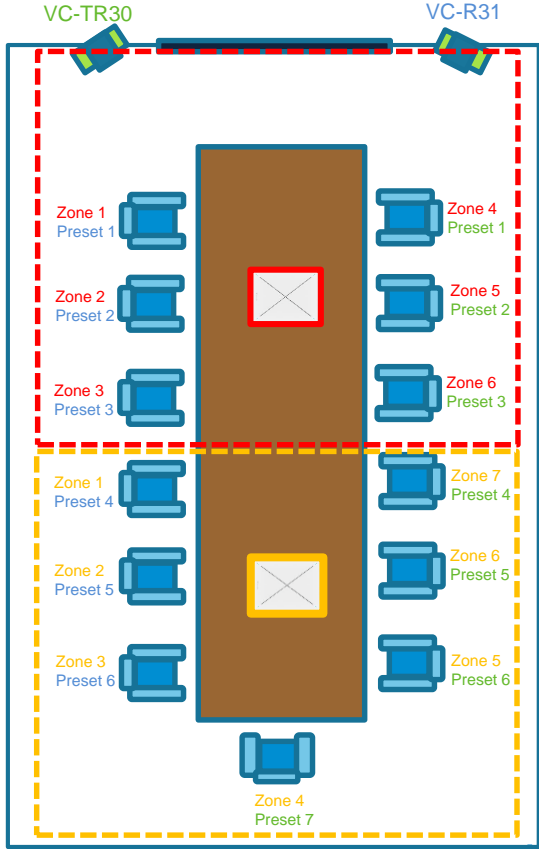
Device & Camera Mapping

Mapping Qty: [dropdown]

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	8	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



Microphone 1 and 2 confirmation

Orange LED

The screenshot shows the Lumens Microphone Setting interface. The 'Voice Tracking' toggle is turned off, indicated by a yellow box and the number 1. The 'Device & Camera Mapping' table shows Zone 6 selected with an orange LED, indicated by a yellow box and the number 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 OFF
2. Orange means, zone 6 data is received but no camera or preset is triggered

Microphone 1 and 2 confirmation

Green LED

1

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: 46

Connect:

Audio Trigger Level (dB): 55

Time To Trigger Preset: 3 sec

Back to Home: set

Apply Cancel

Device & Camera Mapping

Mapping Qty: 20

Mic. Zone: 1

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

2

Zone Setting

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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