



Lumens[®]

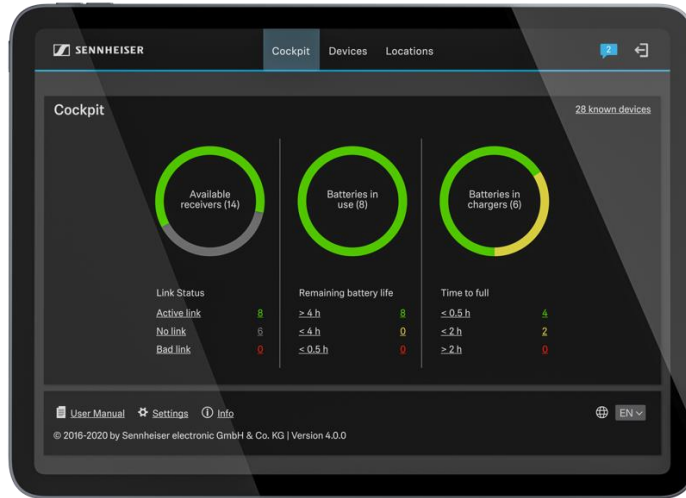
Sennheiser TCCM Settings Guide

Lumens

Preparation

- Please install your Sennheiser TeamConnect Ceiling Medium microphone, Lumens CamConnect processor and Lumens PTZ cameras on the same Ethernet network.
- For the first installation, enable DHCP on your router or switch.
- For the examples used in this document, we assume a Sennheiser TeamConnect Ceiling Medium installed above the center of a conference table.

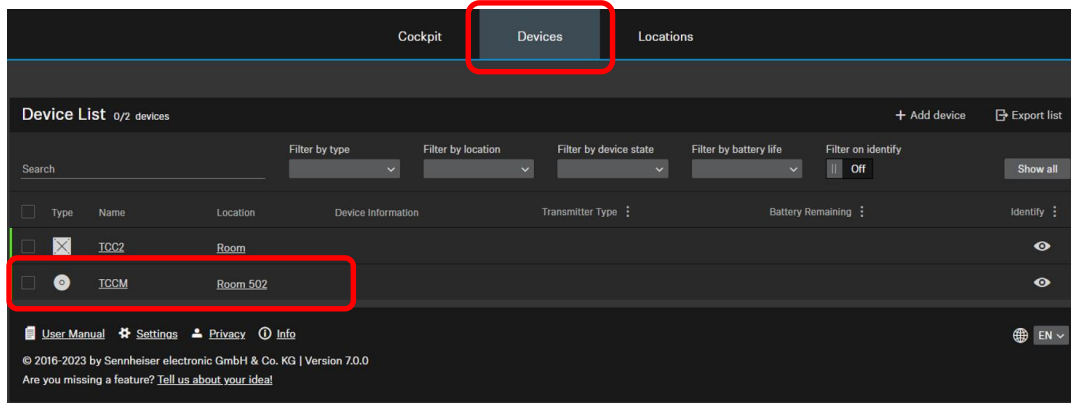
Download Control Cockpit Software



- Download Link: <https://en-us.sennheiser.com/control-cockpit-software>

Device Discovery

1. Go to the [Devices] tab
2. The TCCM will show on Device list.
3. Click the TCCM to enter the settings.



The screenshot shows the 'Devices' tab selected in the top navigation bar. Below the navigation bar, the 'Device List' section displays a table of discovered devices. The table has columns for Type, Name, Location, Device Information, Transmitter Type, Battery Remaining, and Identify. Two devices are listed: 'TCC2' and 'TCCM'. The 'TCCM' device is highlighted with a red box. The 'TCCM' device is located in 'Room_502'. The interface also includes a search bar, filter options, and a 'Show all' button.

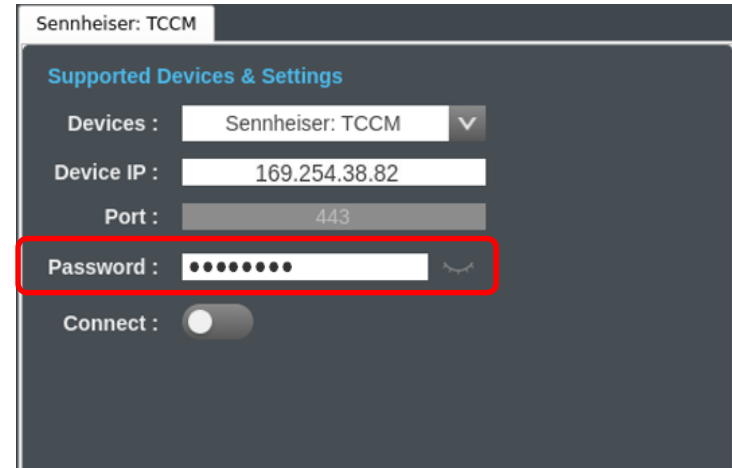
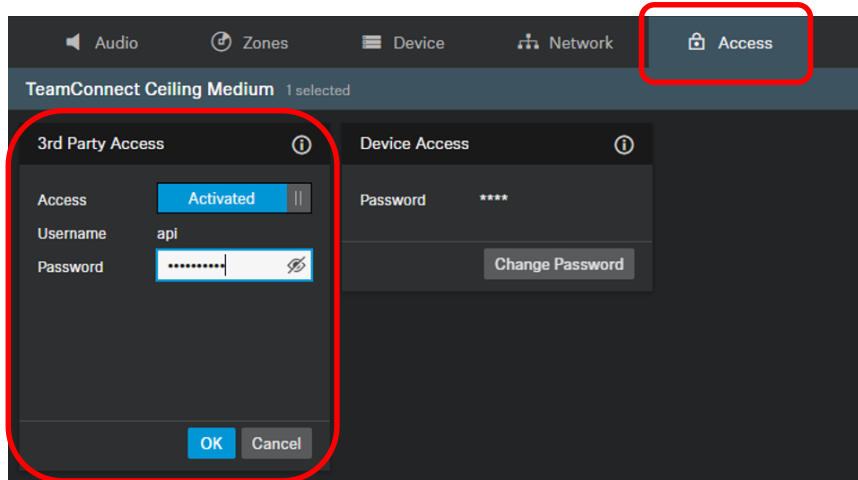
| Type | Name | Location | Device Information | Transmitter Type | Battery Remaining | Identify |
|--------------------------|------|----------|--------------------|------------------|-------------------|----------|
| <input type="checkbox"/> | TCC2 | Room | | | | |
| <input type="checkbox"/> | TCCM | Room_502 | | | | |

Access

1. Go to [Access] tab
2. Click [Activated] to enable access.
3. Enter the Password and click [OK] to save.

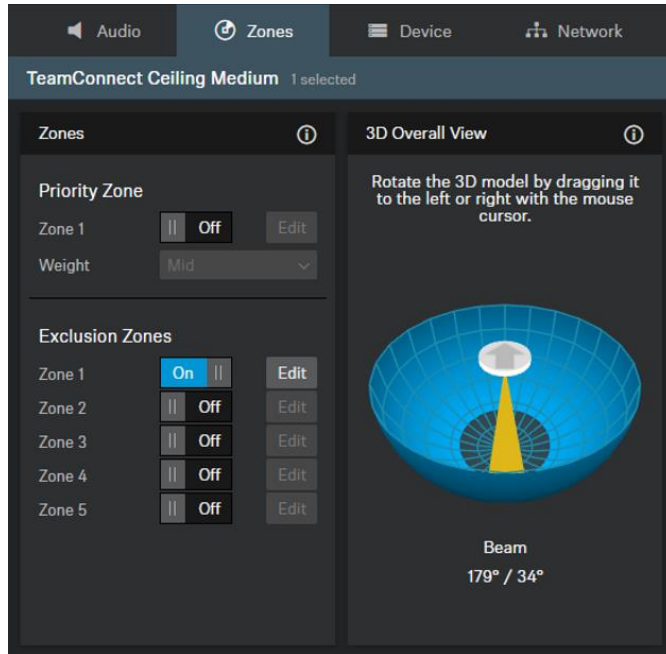
Note

Please enter the same password when you select TCCM in CamConnect Pro.



Zone Settings

Zones

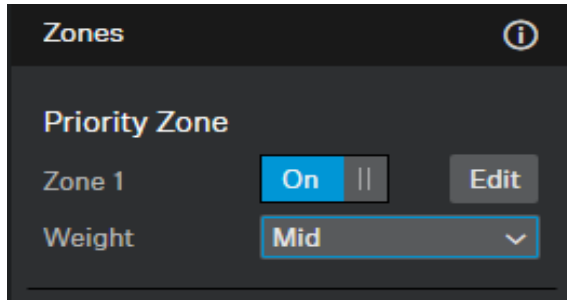


There are two different types of zones.
Users can set:

- A single Priority Zone
- 5 Exclusion Zones

For each zone, both the vertical and horizontal angles can be set individually.

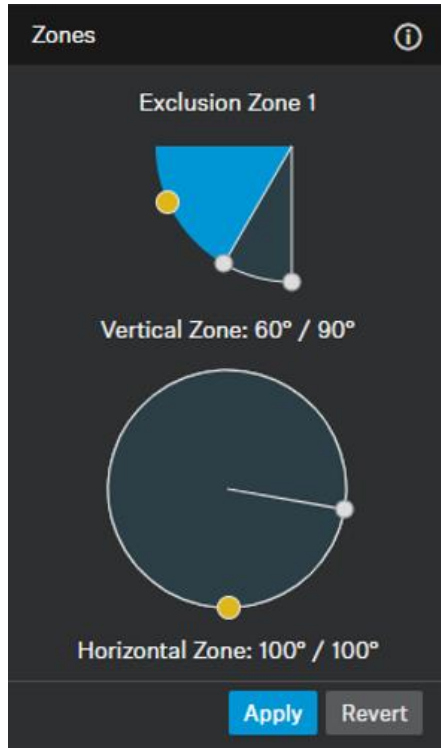
Priority Zone



The Priority Zone allows you to set up a zone which will give precedence to the chairperson if multiple voices are talking concurrently.

- **Mid**: Increases the weighting for the zone by about 1.5x the normal value.
- **High**: Increases the weighting for the zone by about 2x the normal value.
- **Max**: Increases the weighting for the zone by about 3x the normal value.

Exclusion Zones



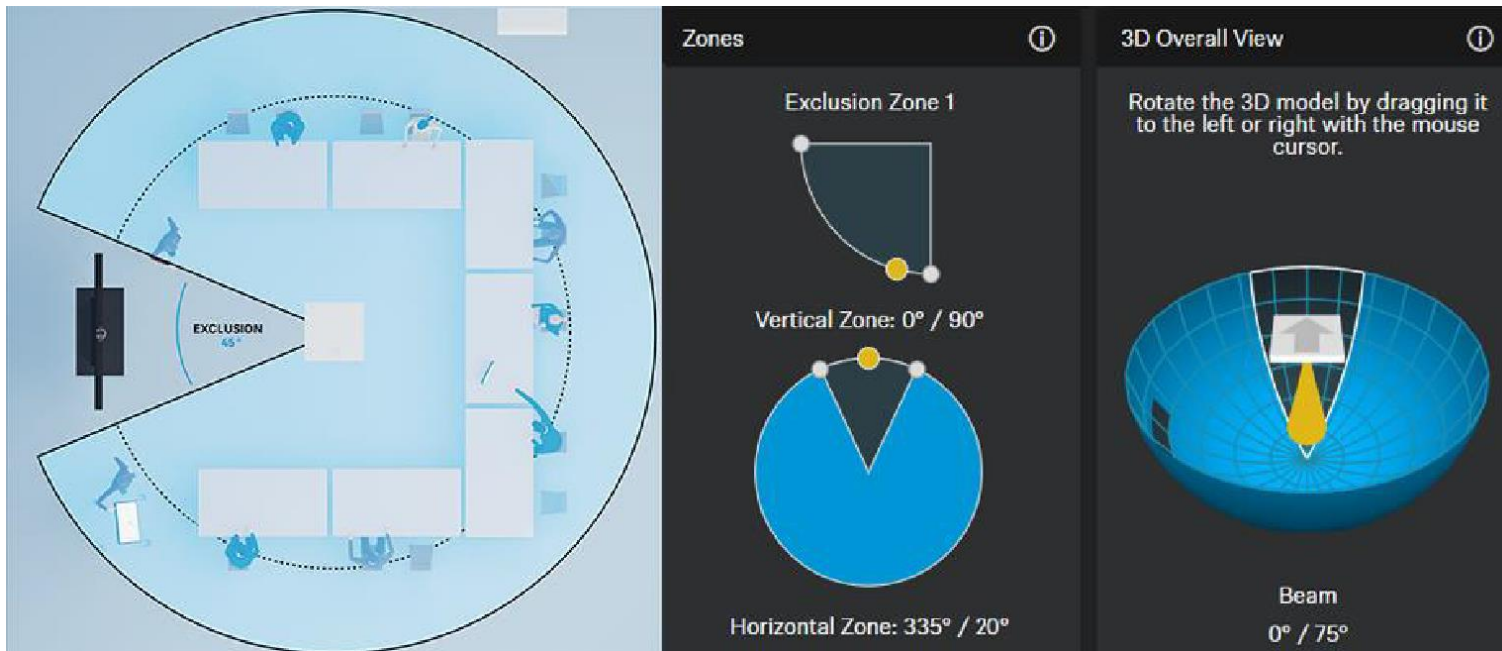
Adjust the sliders to set a vertical and horizontal zone.

The vertical zone can be adjusted from 0° to 90°.

The horizontal zone can be adjusted from 0° to 360°.

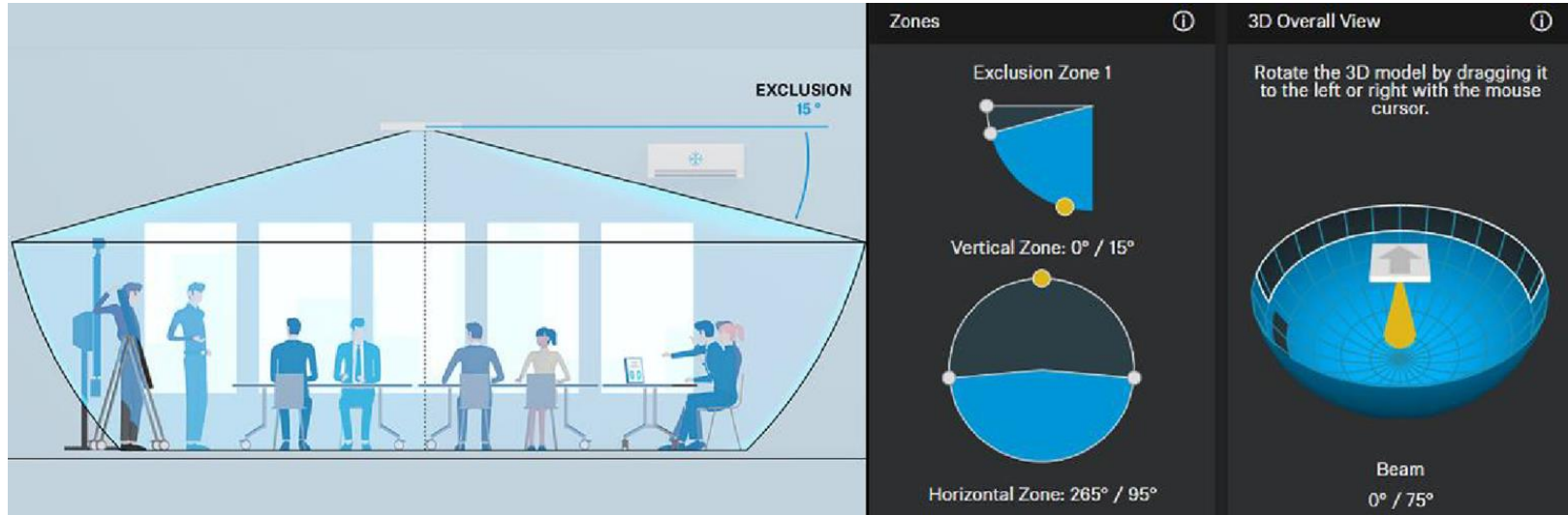
Setting Exclusion Zones example - 1

A horizontal Exclusion Zone can be set in order to exclude sound from loudspeakers.

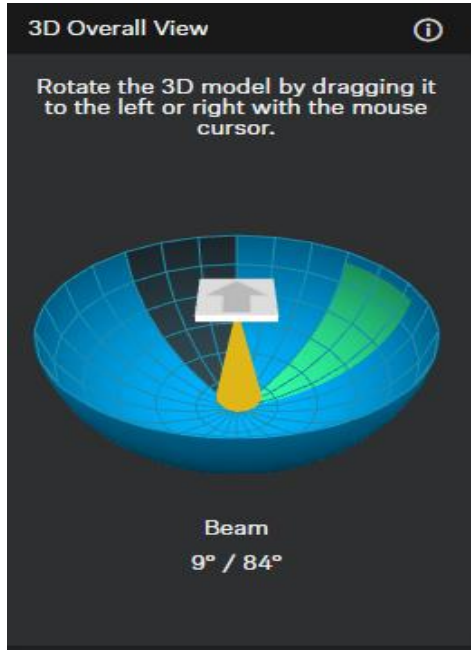


Setting Exclusion Zones example - 2

A vertical Exclusion Zone can be set in order to exclude HVAC noise.



3D Overall View

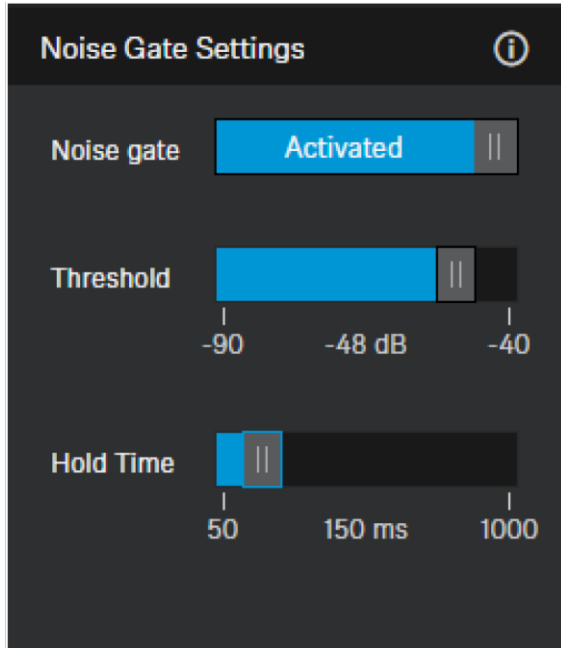


By activating the zones, 3D Overall View displays all activated zones and current voice sources in real-time. The zones in the 3D model are indicated either green (priority) or dark blue (excluded).

If an exclusion and priority zone overlap, the rules of the Exclusion Zone will apply. In this case, the Priority Zone is not displayed in the 3D Overall View.

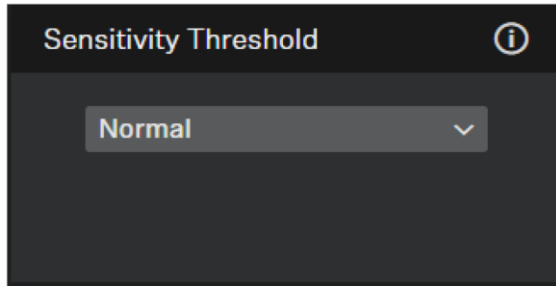
Audio Settings

Noise Gate Setting



- **Noise Gate:** avoids capturing background noise or unwanted sounds.
- **Threshold:** activates the microphone only when a predefined audio threshold value is reached. Use the the slider to adjust the minimum threshold level from -90 dB to -40 dB in steps of 1 dB.

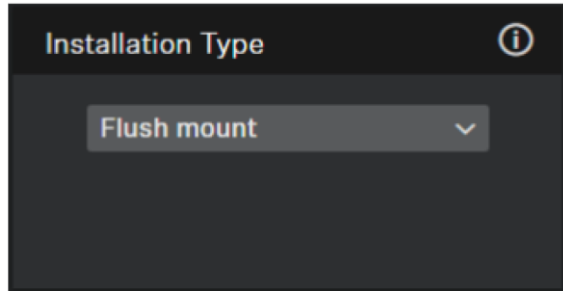
Sensitivity Threshold



Microphone Sensitivity Threshold can be adjusted to better pick out a speakers' voices.

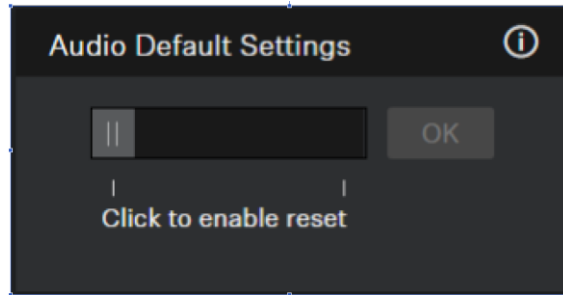
- **Normal:** the recommended setting for most conversational meetings
- **Quiet:** increases the sensitivity of the microphone if voices are not clearly picked up.
- **Loud:** The sensitivity of the microphone is reduced to allow for loud voices in a small space.

Installation Type



- **Flush Mount:** recommended setting if the ceiling microphone array has been installed in or directly underneath the ceiling.
- **Suspended mount:** recommended setting if the ceiling microphone array has been suspended below the ceiling.

Audio Default Setting



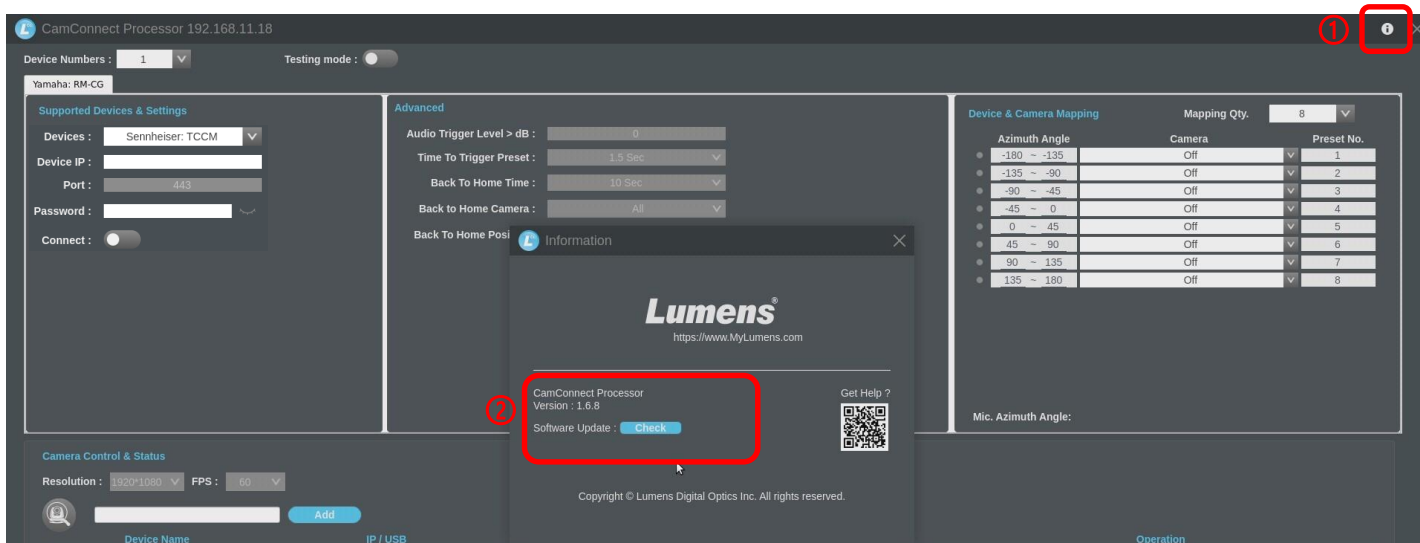
Resets the audio settings to the factory defaults.

The last status saved in the “Location-based mute” field is retained even after you reset to factory defaults.

CamConnect Pro Settings

Update Latest Firmware

Click  to make sure your CamConnect Pro has the latest firmware.



The screenshot displays the CamConnect Processor web interface at 192.168.11.18. The interface is divided into several sections: 'Supported Devices & Settings', 'Advanced', 'Device & Camera Mapping', and 'Camera Control & Status'. A central 'Information' dialog box is open, displaying the Lumens logo and the text 'CamConnect Processor Version : 1.6.8'. A red box highlights the 'Check' button next to the 'Software Update' label. Another red box highlights the information icon in the top right corner of the main interface. The 'Device & Camera Mapping' section contains a table with the following data:

| Azimuth Angle | Camera | Preset No. |
|---------------|--------|------------|
| -180 ~ -135 | Off | 1 |
| -135 ~ -90 | Off | 2 |
| -90 ~ -45 | Off | 3 |
| -45 ~ 0 | Off | 4 |
| 0 ~ 45 | Off | 5 |
| 45 ~ 90 | Off | 6 |
| 90 ~ 135 | Off | 7 |
| 135 ~ 180 | Off | 8 |

Audio Tigger Level

- Triggers if audio source exceeds the selected dB value.
- Set the level from 90 to 0dB (we recommend -55dB)

The screenshot displays the Lumens control interface with the following sections:

- Device Numbers:** 3 (dropdown), Testing mode:
- Supported Devices & Settings:** Devices: Sennheiser: TCCM (dropdown), Device IP: [text input], Port: 443 (dropdown), Password: [text input], Connect:
- Advanced:** Audio Trigger Level > dB: -55 (text input, highlighted with a red box), Time To Trigger Preset: 1 Sec (dropdown), Back To Home Time: 10 Sec (dropdown), Back To Home Camera: All (dropdown), Back To Home Position: Home (dropdown), [Apply button]
- Device & Camera Mapping:** Mapping Qty: 8 (dropdown), Table with columns: Azimuth Angle, Camera, Preset No.

| Azimuth Angle | Camera | Preset No. |
|---------------|--------|------------|
| -180 ~ -135 | Off | 1 |
| -135 ~ -90 | Off | 2 |
| -90 ~ -45 | Off | 3 |
| -45 ~ 0 | Off | 4 |
| 0 ~ 45 | Off | 5 |
| 45 ~ 90 | Off | 6 |
| 90 ~ 135 | Off | 7 |
| 135 ~ 180 | Off | 8 |

Mic. Azimuth Angle:

Thank You!



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