



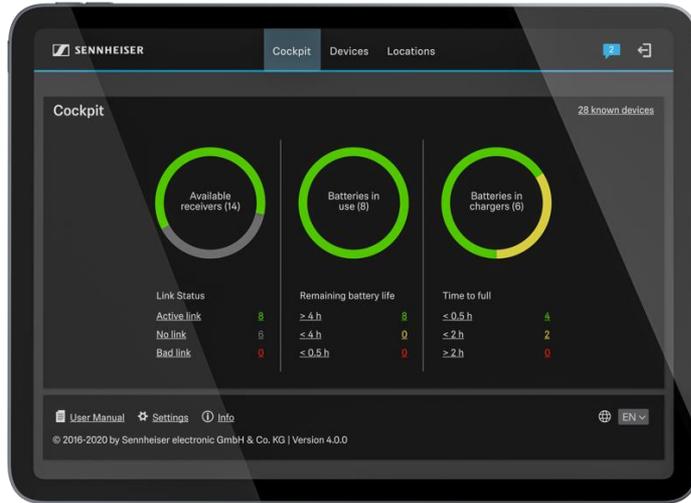
***Lumens***<sup>®</sup>

# Sennheiser TCCM Setting Guide

# Preparation

- **First installation:** A router or Switch with DHCP server function is required to set the Network settings.
- **Network Connection:** Install Sennheiser TeamConnect Ceiling Medium, Lumens CamConnect processor and Lumens PTZ cameras in the same LAN (same class C network)
- **Installation Location:** Decide on the installation location for the Sennheiser TeamConnect Ceiling Medium. Choose a location that optimally captures the participants' voices while considering the camera's field of view.
- **Software Updates:** If any software or firmware updates are available, ensure that the Sennheiser TeamConnect Ceiling Medium is updated to the latest version before installation.

# Download Control Cockpit Software

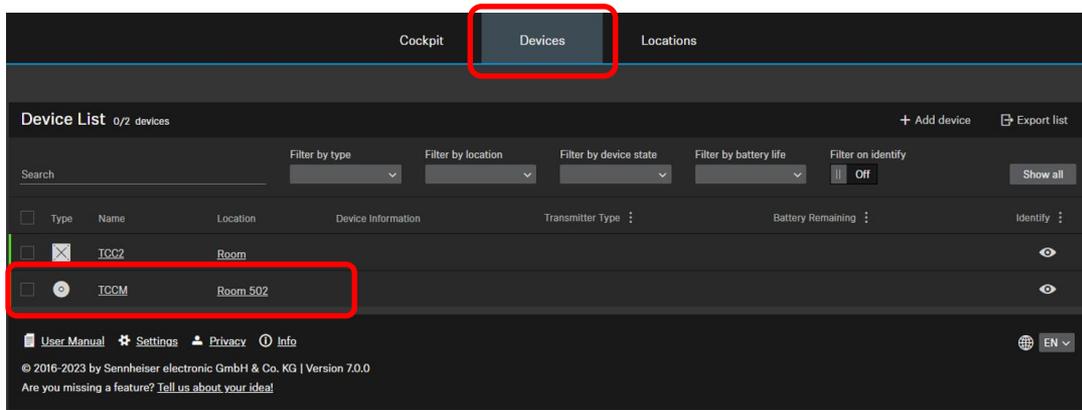


- Download Link:

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

# Device Discovery

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



The screenshot displays the 'Devices' tab in the Lumens web interface. The 'Devices' tab is highlighted with a red box. Below the navigation bar, the 'Device List' section shows 0/2 devices. A search bar and several filter options (Filter by type, Filter by location, Filter by device state, Filter by battery life, Filter on identify) are visible. A table of devices is shown below, with the 'TCCM' device highlighted by a red box. The table has columns for Type, Name, Location, Device Information, Transmitter Type, Battery Remaining, and Identify. The 'TCCM' device is listed with a location of 'Room\_502'.

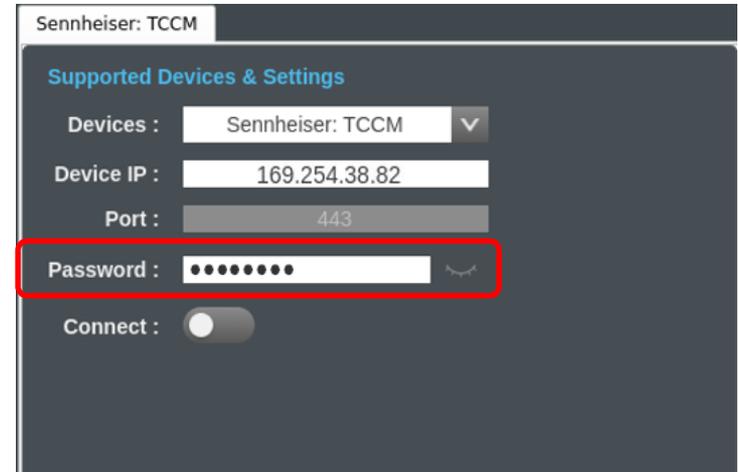
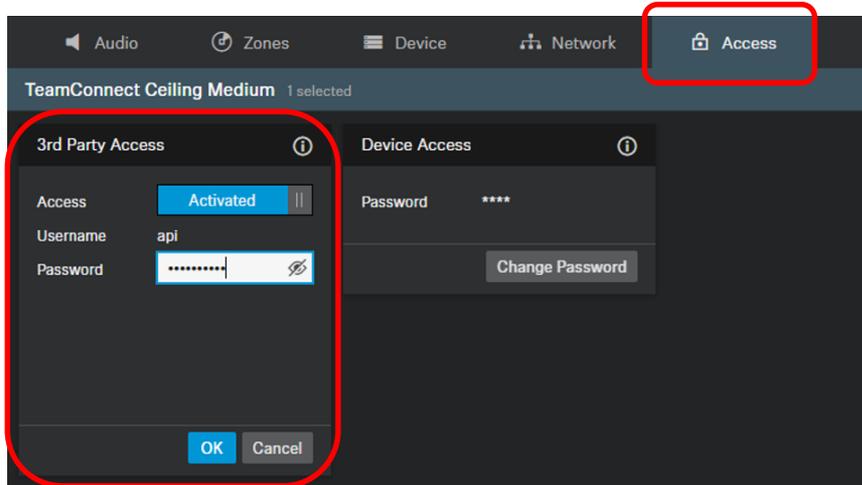
| Type                     | Name | Location | Device Information | Transmitter Type | Battery Remaining | Identify |
|--------------------------|------|----------|--------------------|------------------|-------------------|----------|
| <input type="checkbox"/> | TCC2 | Room     |                  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

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Are you missing a feature? [Tell us about your idea!](#)

# Access

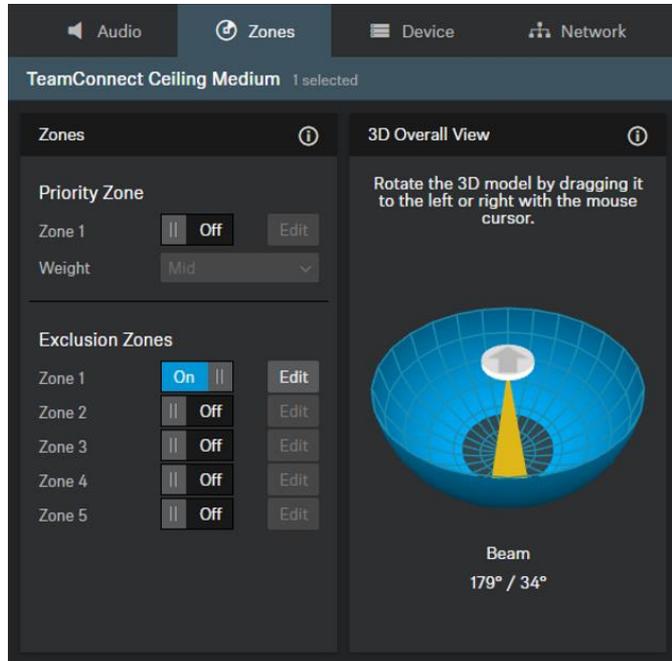
1. Go to [Access] tab
2. Click [Activated] to enable the access.
3. Enter the Password and click [OK] to save.

**Note** Please enter the same password when you select TCCM on CamConnect Pro.



# Zone Settings

# Zone



There are two types of zones:

- 1 x Priority Zone

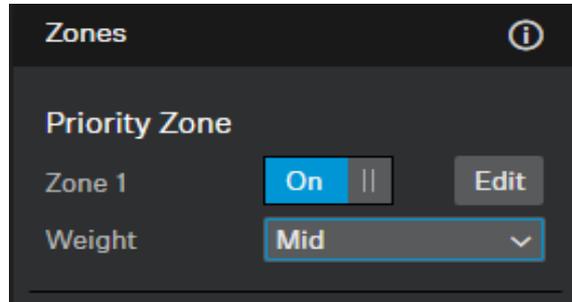
Priority Zone take precedence in terms of audio capture and given higher priority compared to non-priority zones.

- 5 x Exclusion Zones

Exclusion Zones are where the system should exclude or minimize audio capture, providing lower priority to those zones.

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

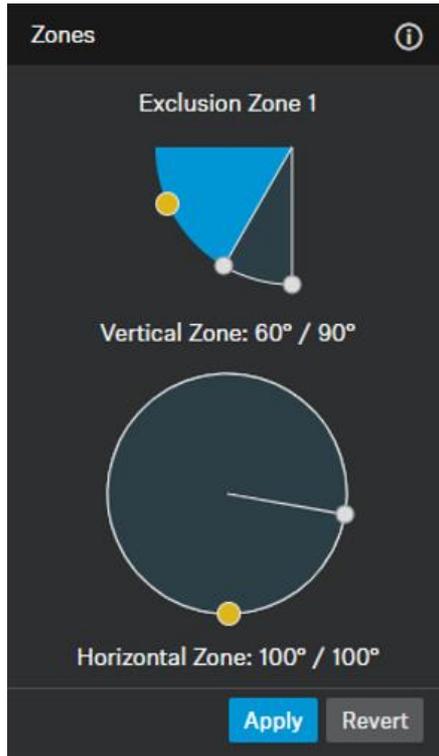
# Priority Zone



The Priority Zone allows you to set up a zone which will be handled prioritized in case of incoming audio signals from different positions at the same time. This feature can be useful e.g. during conference meetings with an important person involved.

- Mid: Increases the weighting on the audio output from the zone by about 1.5 times the normal value.
- High: Increases the weighting on the audio output from the zone by about 2 times the normal value.
- Max: Increases the weighting on the audio output from the zone by about 3 times the normal value.

# Exclusion Zones

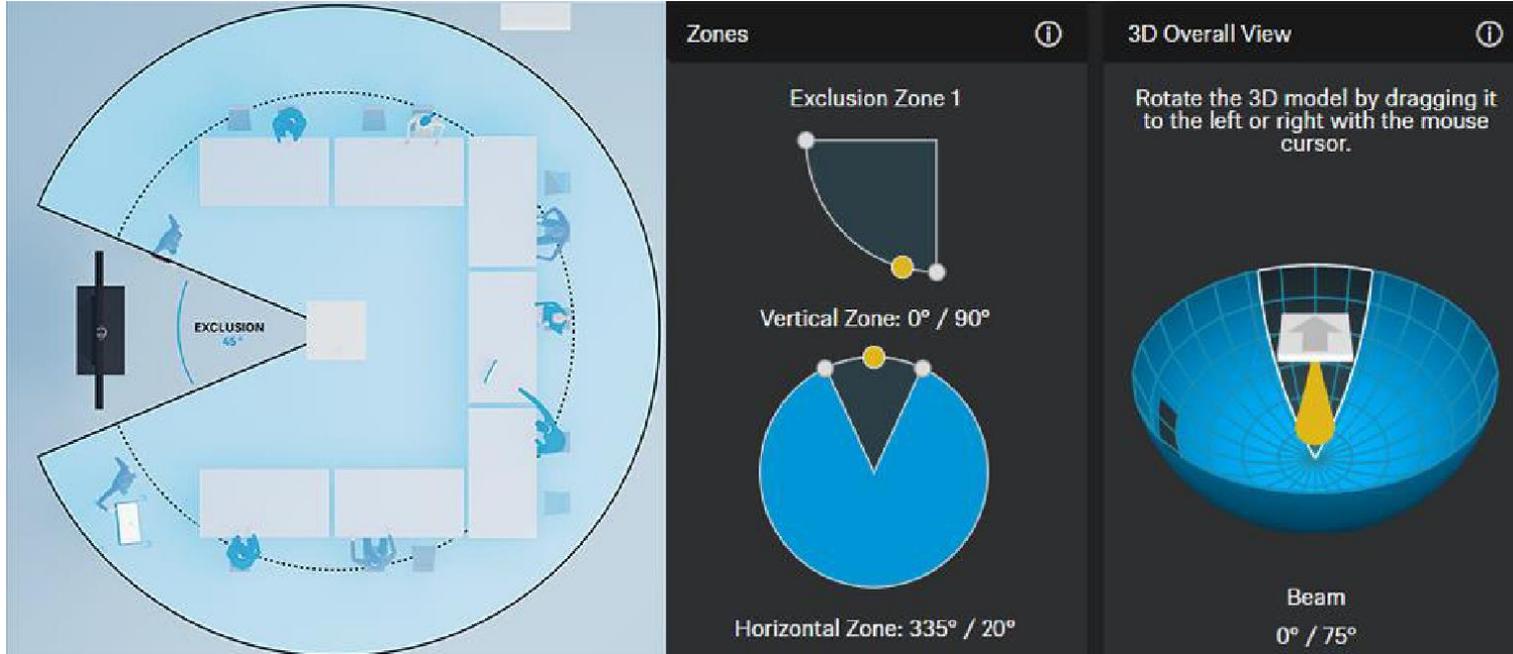


Adjust the sliders to set a vertical and horizontal zone.

- Vertical zone can be adjusted individually from 0° to 90°.
- Horizontal zone can be adjusted individually from 0° to 360°.

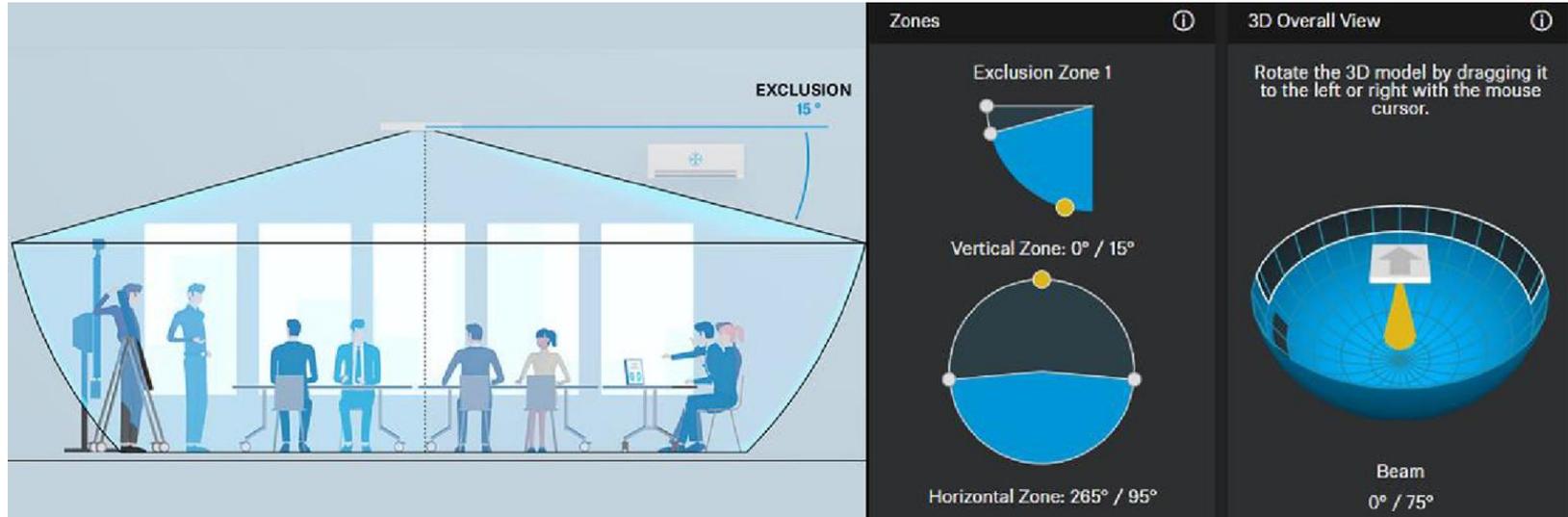
# Setting Exclusion Zones example - 1

A horizontal Exclusion Zone to exclude the noise of the loudspeakers on the wall.

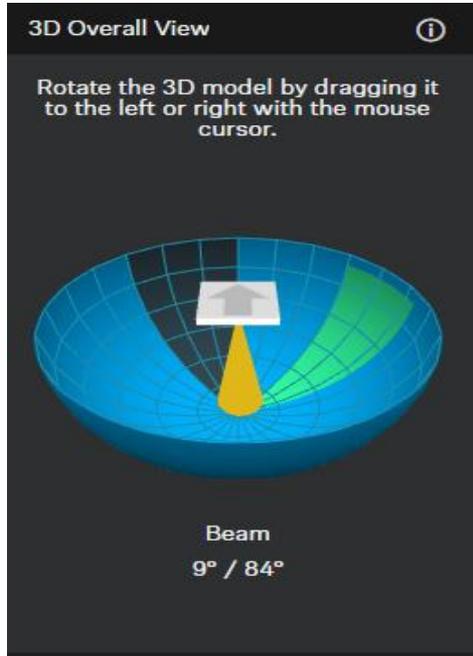


# Setting Exclusion Zones example - 2

A vertical Exclusion Zone set to exclude the noise of the air conditioning in the ceiling.



# 3D Overall View

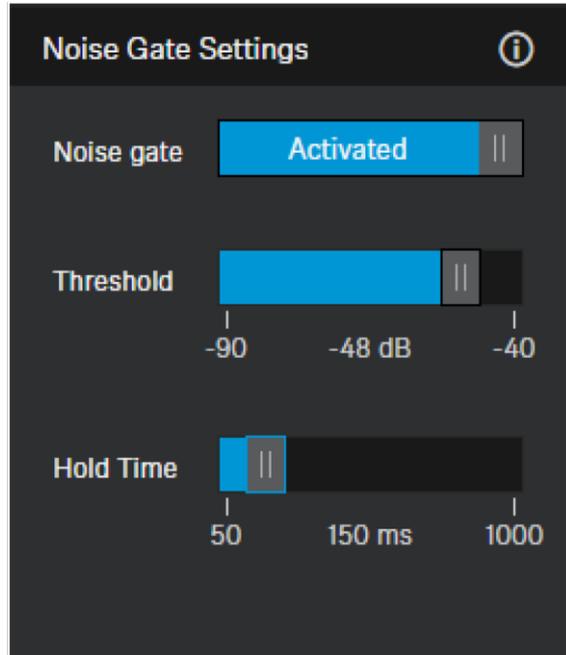


By activating the zones, 3D Overall View can display all activated zones and current voice source in real time. The zones in the 3D model are indicated either green (prioritized) or petrol (excluded).

In case both zone types overlap, the rules of the Exclusion Zone will apply. In this case, the Priority Zone is not displayed in the 3D Overall View.

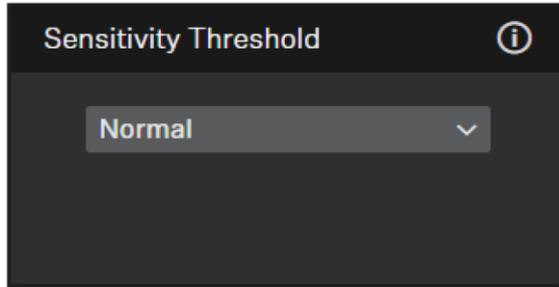
# Audio Settings

# Noise Gate Setting



- **Noise Gate:** Noise Gate can be activated to avoid amplification of background noise.
  - **Threshold:** The Noise Gate will open the audio of the microphone output only after the predefined threshold value of the needed microphone has been reached. With the slider you can adjust the minimum threshold level from -90 dB to -40 dB in steps of 1 dB
- To avoid background noise, you can set a threshold value to achieve the goal. However, the setting value should be based on each setting room. Please select property value according to the onsite environment.

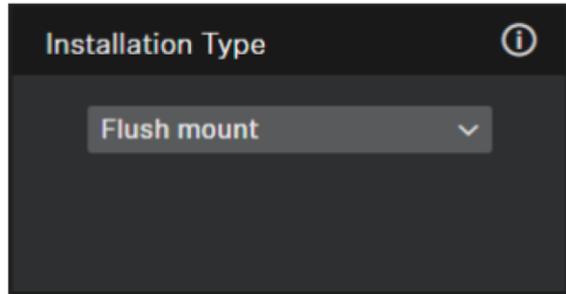
# Sensitivity Threshold



With the Microphone Sensitivity Threshold, the microphone adjusts to the background noise to better identify the speaker. Depending on the setting, the sensitivity is either amplified or attenuated.

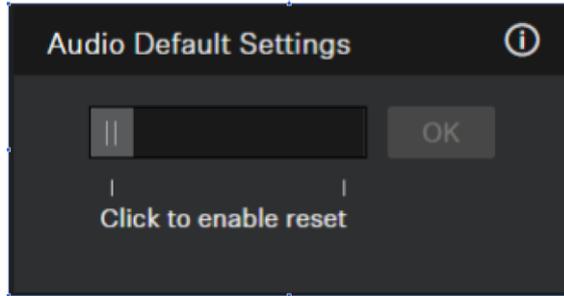
- Normal(default): recommended setting for speakers with a normal conversation volume
- Quiet: recommended setting for speakers with a quiet conversation volume. The sensitivity of the microphone is increased.
- Loud: recommended setting for speakers with a loud conversation volume. The sensitivity of the microphone is attenuated

# 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 from the ceiling

# Audio Default Setting



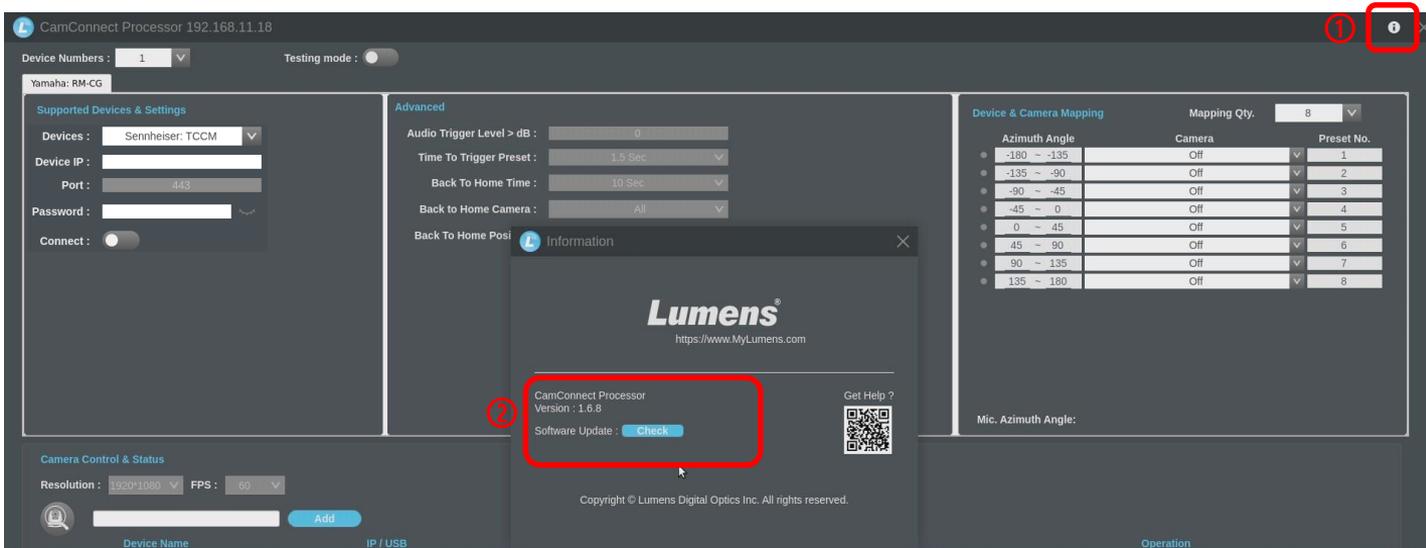
Resets the audio settings to the factory defaults.

The last status saved in the “Location-based mute” field is retained even after you reset the audio settings to the 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. The "Device & Camera Mapping" section contains a table with 8 rows of azimuth angle ranges, camera status, and preset numbers.

| 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

- Triggered only if audio source exceeds the dB value.
- Sennheiser : -90~0 (recommended -55)

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

- Device Numbers:** 3 (dropdown), Testing mode:
- Yamaha: RM-CG** | **AudioTechnica: ATND1061** | **Shure: MXCW**
- Supported Devices & Settings:**
  - Devices: Sennheiser: TCCM (dropdown)
  - Device IP:
  - Port: 443 (dropdown)
  - Password:
  - Connect:
- Advanced:**
  - Audio Trigger Level > dB:  (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)

| 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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