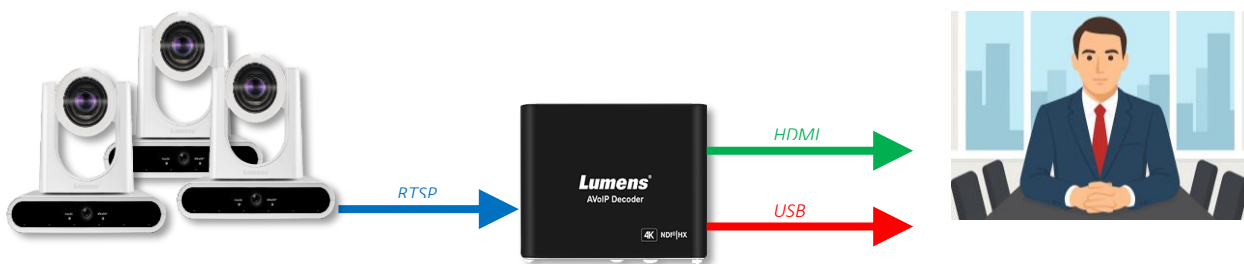


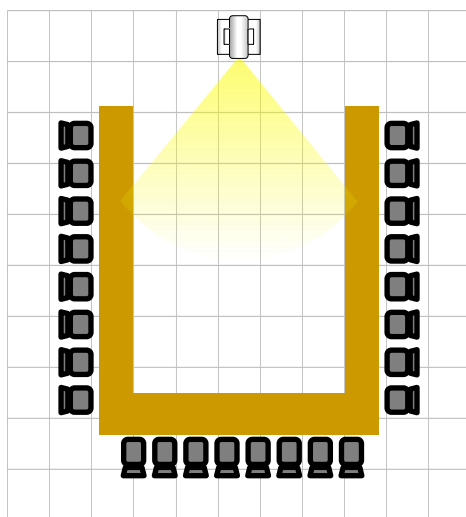
1. Introduction

The VoiceConnect feature enables OIP-N60D to receive audio data from multiple VC-TR60A cameras. It determines the speaker closest to each camera and automatically switches to the respective video feed. This extends the voice tracking range beyond the typical 8-meter limit, making it ideal for a large meeting room.



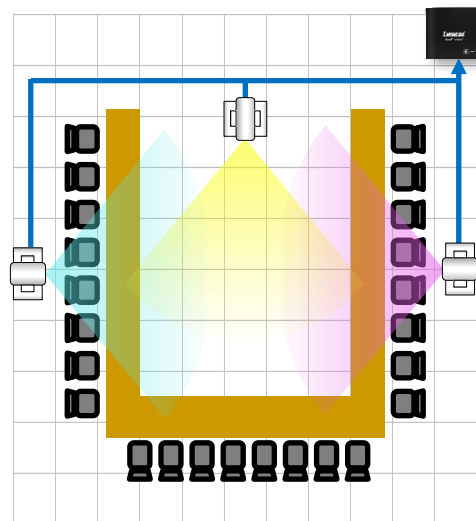
$$\text{VC-TR60A} + \text{OIP-N60D} = \text{VoiceConnect 100}$$

Without



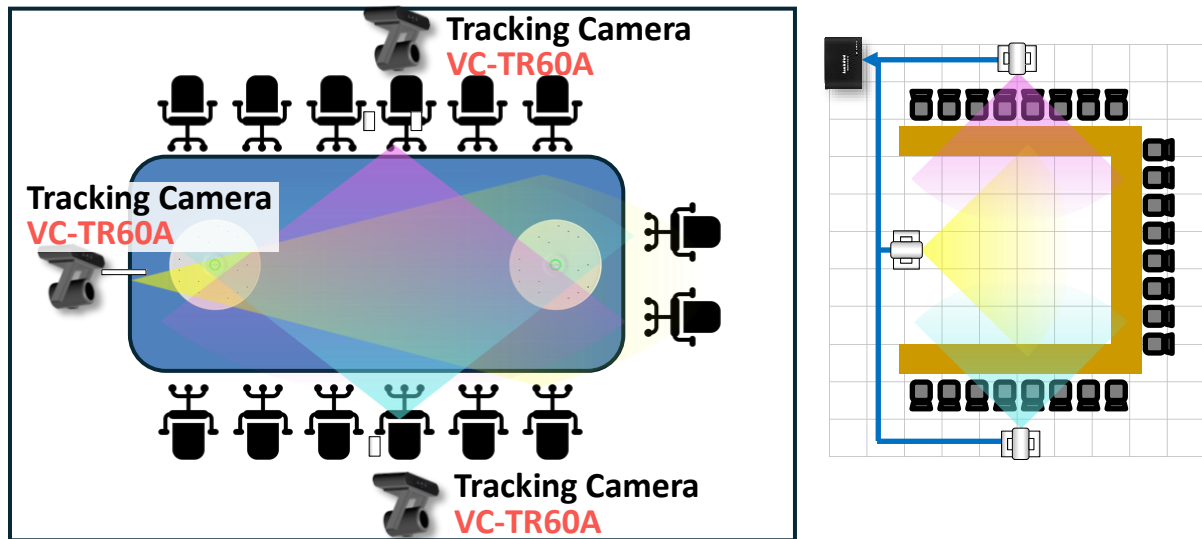
Single Voice Tracking Camera

VoiceConnect



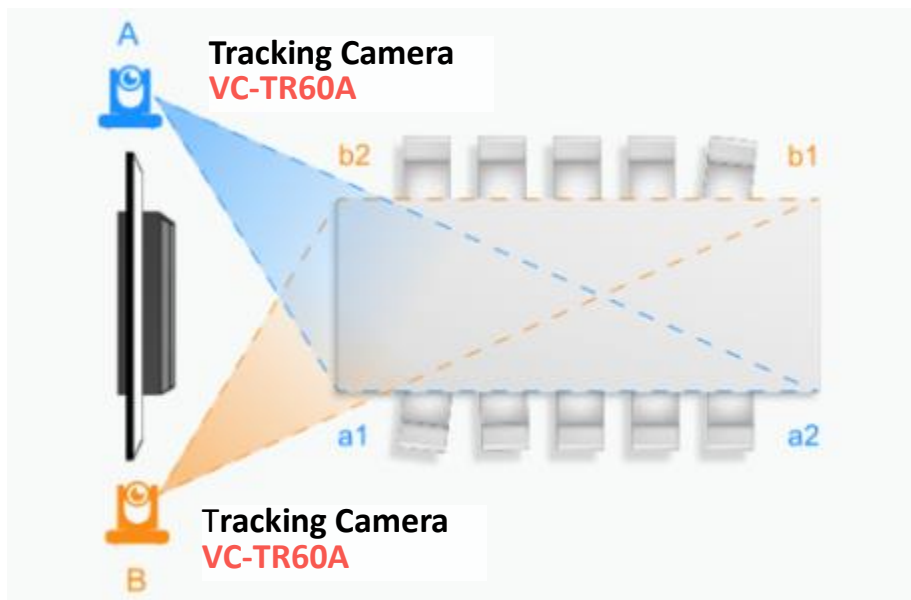
Multiple voice tracking cameras cover different zones to provide full tracking coverage across

- System Diagram e.g. Boardroom 3 Cameras



Please install the equipment according to the placement layout diagram below.

- System Diagram e.g. Boardroom 2 Cameras



2. What You Need

■ OIP-N60D ×1

- OIP-N60D : **OIB1.36** or above
- OIP-N60D Dante AV-H : **OIC1.36** or above

■ VC-TR60A ×2–3 units (The following example will use 3 VC-TR60A units)

- VC-TR60A : VRK208
- VC-TR60A, V1: VRK300 or above

■ Network Connection

- All devices must be connected to the same LAN

※ VoiceConnect is a premium feature. Please contact Lumens to get the license.

To get license, please contact Lumens for assistance.

■ Recommend installation

- VC-TR60A recommend install height: 2-2.4M
- The maximum distance for Voice Tracking: 8M
- Distance of VC-TR60A to first seat: At least 2M
- Each VC-TR60A should receive all people sound in the tracking area.
(Users can use the OIP-N60D to check the audio reception status)

3. Setup for VC-TR60A

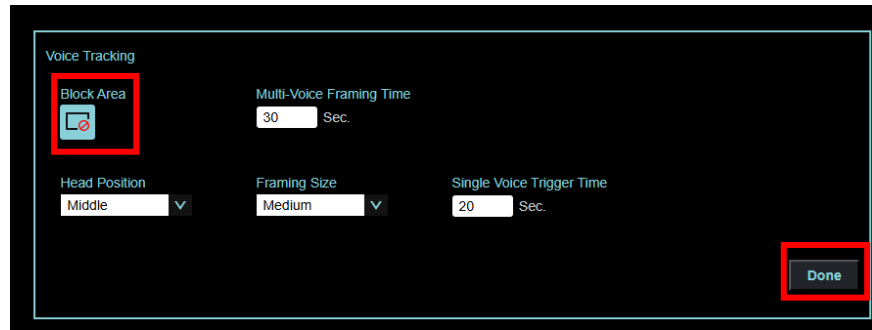
Step 1: Access the camera web page → [Tracking] → Disable Multi-Voice Framing.

Step 2: Go to Advanced Settings, define Block Areas where tracking is not needed.

Step 3: Enable Voice Tracking.

* Repeat the above steps for each camera.

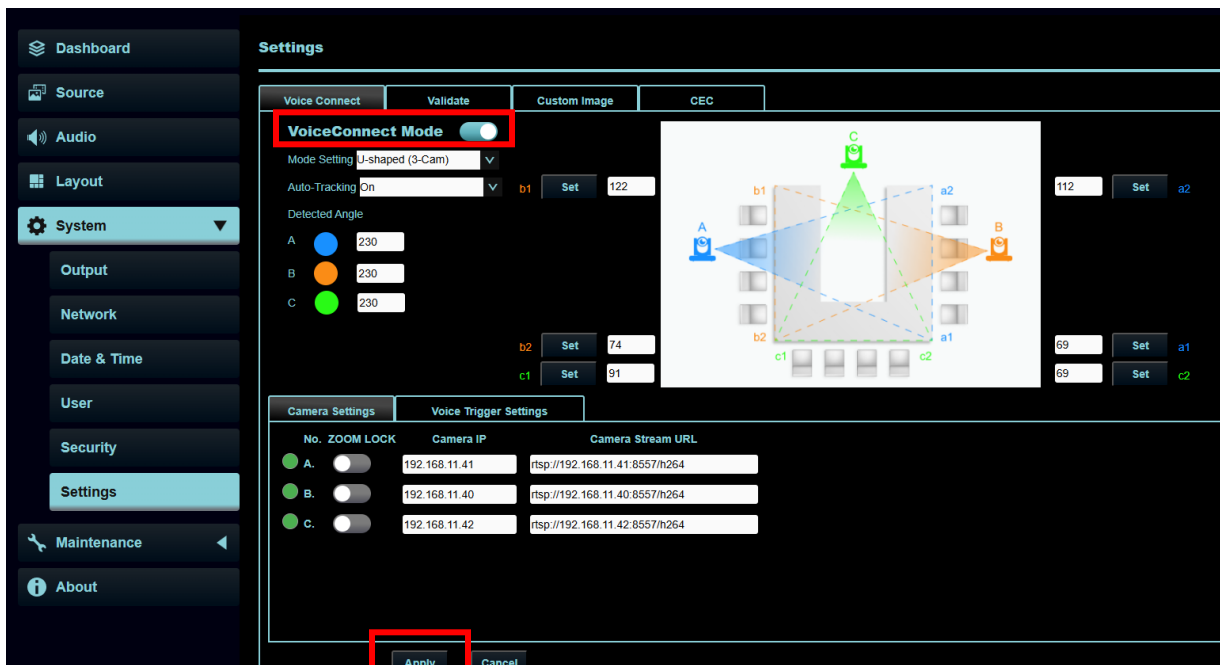




4. Setup for OIP-N60D

◆ Step 1: Enable VoiceConnect

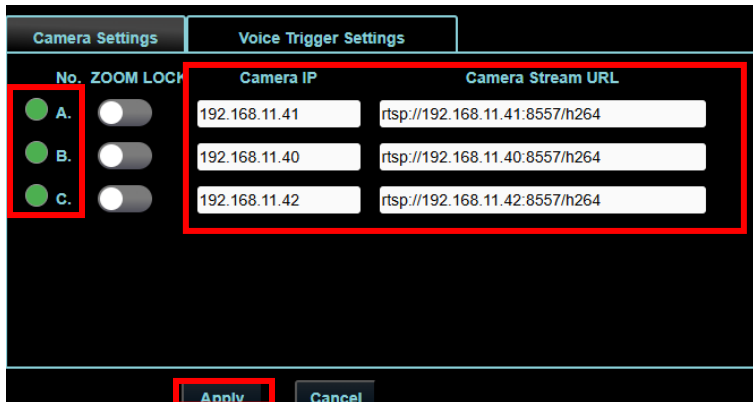
→ Go to [System] → [Settings] → [VoiceConnect] → Enable [VoiceConnect Mode], and Apply.



◆ Step 2: Input camera IP & Stream URL

→ Enter VC-TR60As IP and RTSP stream, and then Apply. Follow the system architecture diagram (Using U-shaped mode as example), Camera A is the camera on the right side of Camera C, Camera B is the camera on the left side of Camera C, and Camera C is the center camera.

Make sure the light are **green**. If no, please confirm the RTSP URL and camera is work or not.

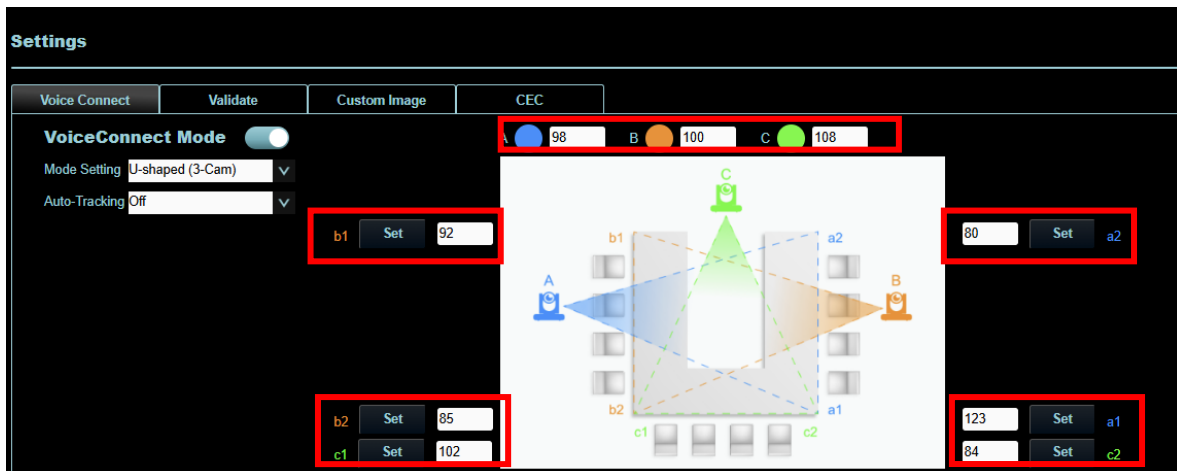


◆ Step 3: Perform relative position calibration for each camera

→ Follow the instruction and make continuous sound for 5–10 seconds at positions a1, a2, b1, b2, c1, and c2. (The calibration points must extend 50 cm beyond the boundaries of the actual tracking area.)

When the volume level becomes stable, press [Set]. (Angle should dynamic change and can't be 230.)

After completing all positions, enable [Auto Tracking] on, and press [Apply].



◆ Step 4: Configure Voice Trigger Settings

→ Go to [Voice Trigger Settings] -> Set below setting -> [Apply]

- **Trigger Delay Time:** Timing to calculate to change the camera.
- **No Voice Trigger Action:** If you want to set up No Voice Trigger Action, please set [No Voice Trigger Action] to [Specify]. You can setup the timing and the video URL when there is no one speaking (e.g.: Panoramic video of VC-TR60A or other camera RTSP stream.)
- **Screen Stream URL:** You can specify a video URL when there is no one speaking.

Step 5: Audio Reference Settings

→ Go to [Voice Trigger Settings] -> Set below setting -> [Apply]

- **Audio Reference:** If you need to avoid speaker interrupt, select UAC, Audio in, or Dante as Audio Reference source.
- **Detection Sensitivity:** Sensitivity levels: High, Medium, and Low (from most to least sensitive).
- **Screen Stream URL:** You can specify a video URL when remote speaker is speaking.

Step 6: Conversation Mode Settings

→ Go to [Voice Trigger Settings] -> Set below setting -> [Apply]

- **Conversation Detection:** Enable/Disable conversation mode
- **Screen Switch URL:** You can specify a video URL when the conversation mode is enabled. (e.g.: panoramic video of VC-TR60A or other camera RTSP stream.)
- **Multi-Voice Frequency & Multi-Voice time:** OIP will enable Conversation mode when it switches the camera X times during Y second (e.g.: OIP switches to different VC-TR60A 3 times during past 30 second, it will enable conversation mode.)
- **Multi-Voice Release Time:** OIP will disable Conversation mode when someone is speaking at least Z second or no one speak at least Z second. (Minimum is 10secs.)

Camera Settings | Voice Trigger Settings

Trigger Delay Time(s) 1

No Voice Trigger Action Specify

No Voice Duration(s) 10

Screen Switch URL: rtsp://192.168.11.42:8553/h264

Audio Reference: UAC

Detection Sensitivity Low

Screen Switch URL: rtsp://192.168.11.40:8553/h264

Conversation Detection. ☒

Screen Switch URL: rtsp://192.168.11.41:8553/h264

Multi-Voice Frequency 3

Multi-Voice Time(s) 30

Multi-Voice Release Time(s) 10

Apply Cancel

5. Setup for Audio Reference

- **Dante**

Step 1: Go to N60D webpage -> [System] -> [Output], Enable Virtual USB Output, and UAC out select Follow Dante.

Step 2: Go to Dante Controller -> Subscribe Dante DSP to N60D Receiver channel.

Step 2: N60D connected to PC via USB cable, and then Select N60D as PC sound output device.

Output

Choose your output device

Speakers (4- Lumens OIP-N60D Decoder) ▾

● Audio in

Step 1: Connect your 3.5mm Audio Cable from the DSP to N60D audio in port.

6. Limitations

- Supports RTSP stream only.
- Dante AV-H stream not supported (expected in future firmware update)
- HDMI output: up to 4K60; UVC output: up to 1080P30.

7. Support

For installation or configuration support, please contact Lumens technical support team to assist.