



Lumens AI-Box1 CamConnect Processor Installation Guide

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Lumens AI-Box1 CamConnect Processor



Before You Get Started

What You Need



AI-Box1



Array Microphone



PC



Display



Keyboard / Mouse



Router/ PoE Switch



HDMI Cable



RJ45 Cable



USB Cable
(Type A-Type C)

Array Microphone

- Please confirm compatibility of the AI-Box1 with your array microphone. Ensure the microphone and any control software is installed.
- Please see Lumens website for the latest supported microphones.

PTZ Camera (Maximum 4 units)

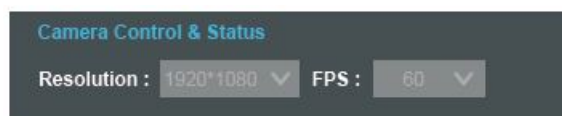
- Configure the Camera settings as follows:
- Make sure the Camera and the AI-Box1 are in the same IP range.

Firmware Update

- Make sure the camera firmware is up to date. Go to the Lumens website support tab to download the latest version.

Resolution Setting

- Please make sure that each camera and the AI-Box1 are on the same output resolution.
- AI-Box1 default is 1080p/60fps. (Please refer to 4. AI-Box1 Setting)
- Ensure AI-Box1 and the cameras are both outputting 1080P/ 60fps

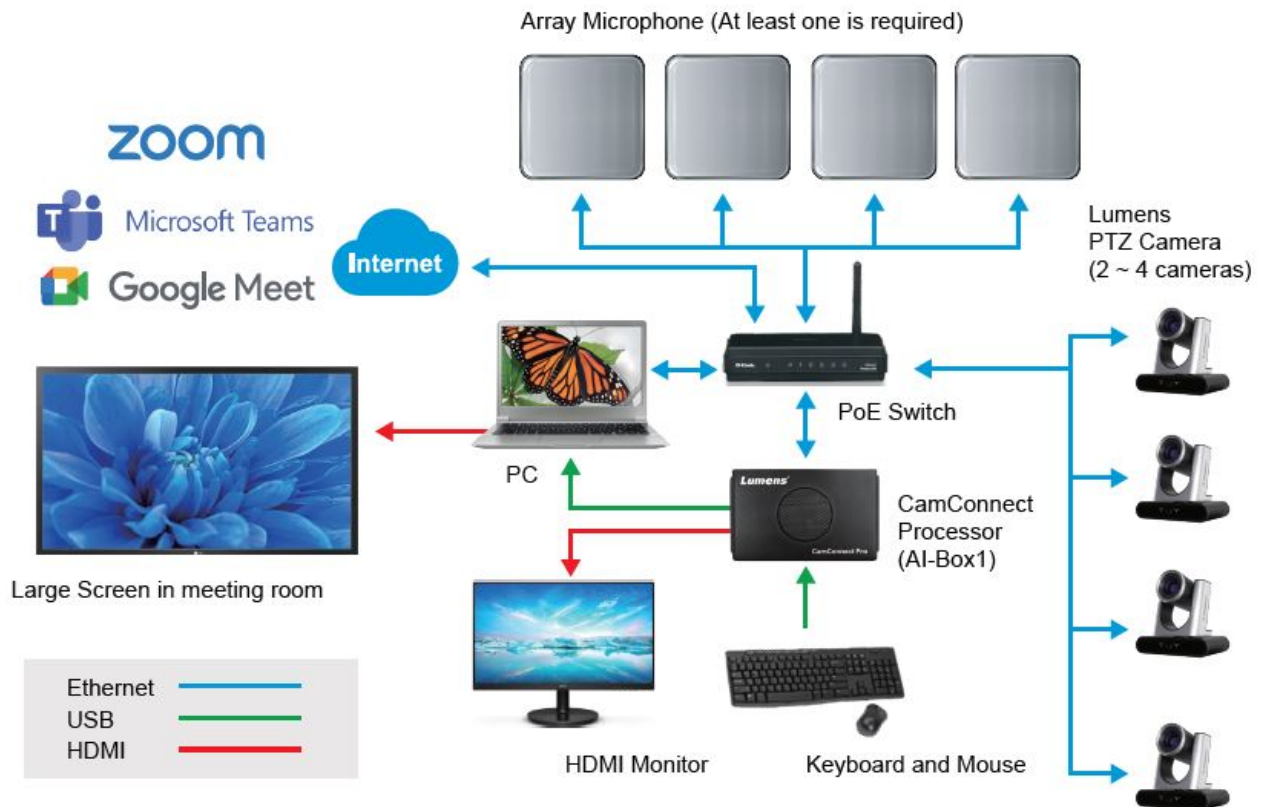


Motionless Preset

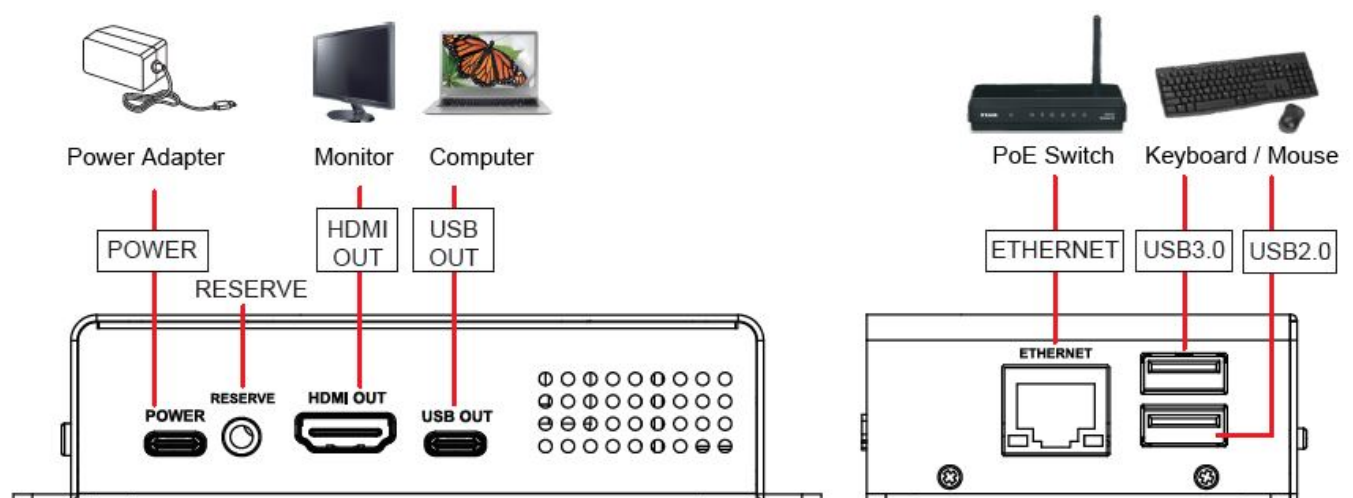
- Motionless preset momentarily holds the last frame when the camera changes position to create a clean switch without seeing camera movement on screen.
- Activate the motionless preset mode on the cameras.

- **OSD Menu** [System] > [Motionless Preset] > [On]
- **Webpage** depending on the camera model, the setting is either in [Setting] > [Camera] > [Pan Tilt Zoom] > [Motionless Preset] > [On] or [Live View] > [Camera Setting ⚙️] > [PTZ] > [Motionless Preset] > [On]

System Diagram



Hardware Connection



AI-Box1 Setting

- Connect the AI-Box1 to a keyboard and mouse. Connect a monitor via HDMI.
- Go to the Information tab ⓘ to confirm that AI-Box1 is on the latest firmware.


- Settings can also be operated on AI-Box1 webpage.
- (IP listed on the title bar of CamConnect Processor)
- Please refer to the AI-Box1 User Manual for webpage settings.

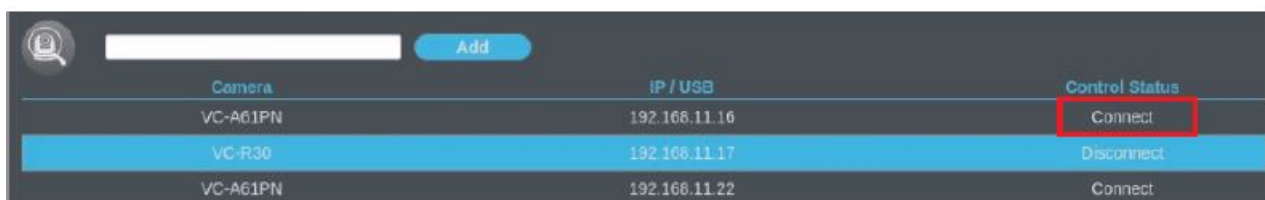


Array Microphone Setting

- **Device Numbers** Select the number of microphones you are using.
- (AI-Box1 supports the use of different types of microphone)
- **Devices** Select the microphone you want to set up.
- **Device IP** Type in the IP Address of microphone.
- **Port** Use Default except for Nureva where the port should be selected.
- **Connect** To activate the microphone to detect sound.
- **Advanced** Settings for audio trigger level, time to trigger preset and back to Home parameters.

Camera Connection (Only Lumens Cameras are supported)

- The Resolution / FPS must match the AI-Box1 (Please refer to 1. Before You Get Started)
- Click search  to display all IP cameras on the same local Network.
- Click [Connect] to link to a camera. (When connected, the line is highlighted in blue)

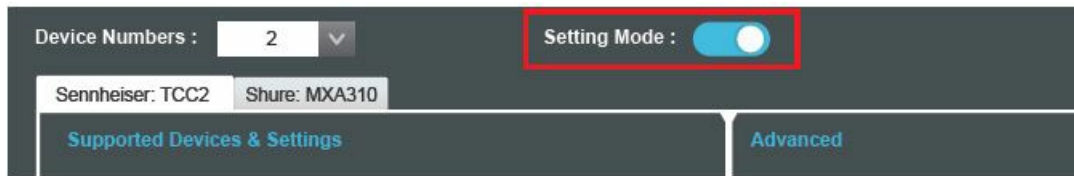


Camera Preset Position Setting

- Please follow 6. Example Azimuth / Array Configurations.

Enable Setting Mode.

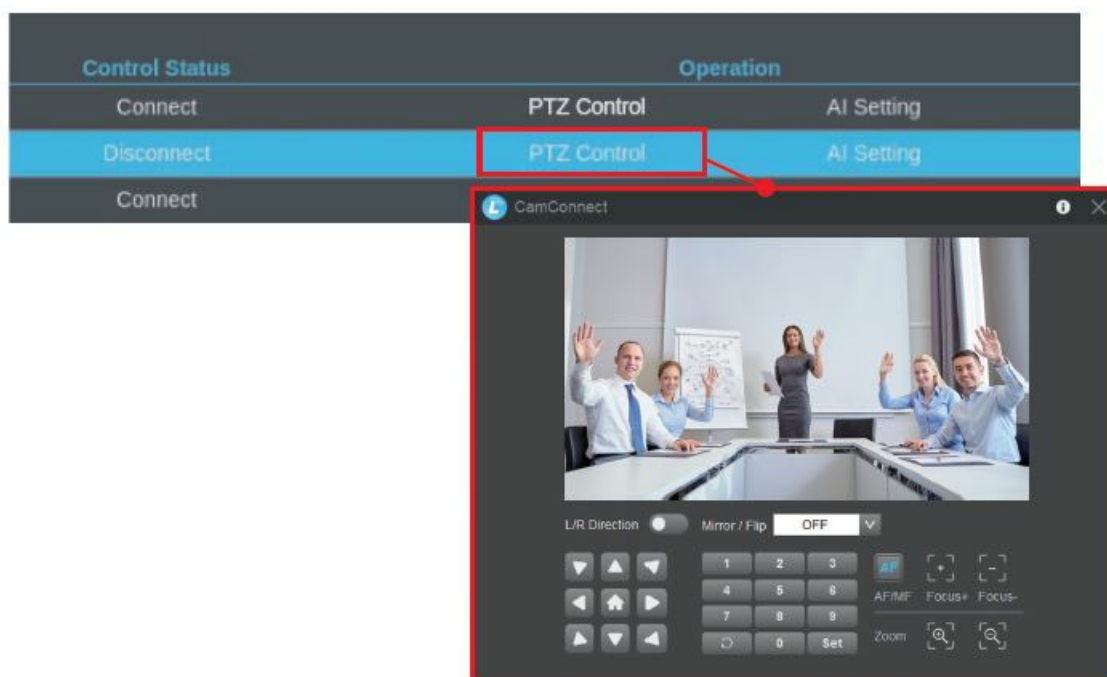
Microphone will receive the audio signal, but won't trigger camera preset when setting mode enabled.



- When the camera is connected, the microphone starts scanning the room for voices.
- When a voice is detected the corresponding Azimuth Angle will turn green. This will help you set up presets for the room.
- **Tip:** Azimuth Angle values can be changed to suit your room.



- After confirming the azimuth settings, click [PTZ Control] to set camera preset positions.
- (Presets also can be set on the remote control.)



- To save a Camera position, select a preset number.

Azimuth Angle	Camera	Preset No.
0 ~ 45	Off	1
45 ~ 90	Off	2
90 ~ 135	Off	Off
135 ~ 180	Off	1
		2

- If multiple cameras are connected to the AI-Box1 select the preferred camera from the drop-down menu under Device and Camera mapping.

Azimuth Angle	Camera	Preset No.
0 ~ 45	Off	1
45 ~ 90	Off	2
90 ~ 135	Off	3
135 ~ 180	Off	4

Disable Setting Mode

After Device & Camera Mapping completed, disable the setting mode to trigger camera to the preset position.

Device Numbers :
Setting Mode : ☐

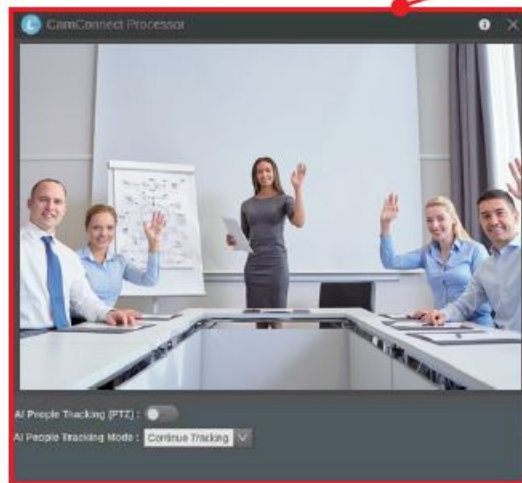
Sennheiser: TCC2 Shure: MXA310

Supported Devices & Settings Advanced

Setting

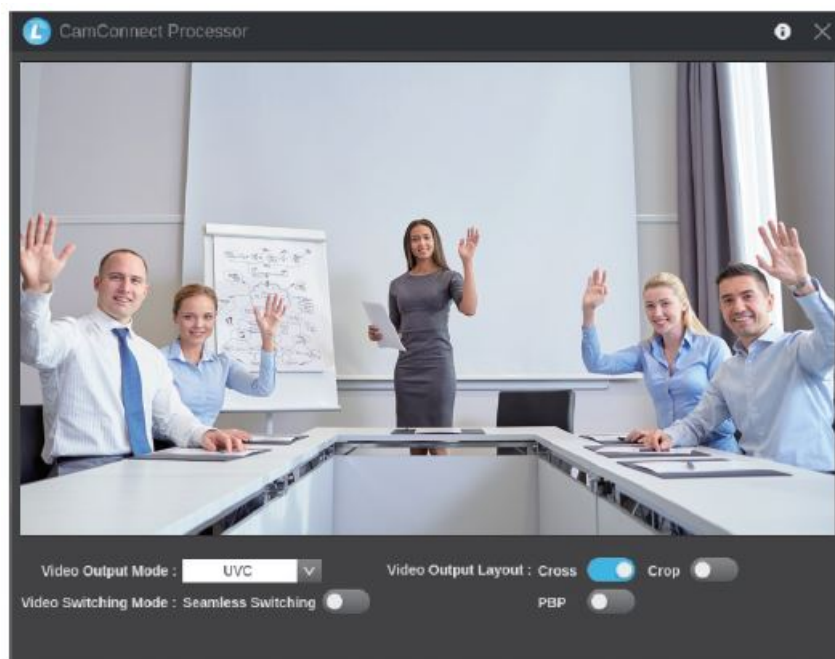
- **AI people-tracking** Keeps the target in the center of the frame.
- **Center Stage** After triggering to the preset position, the tracking target will be centered, and the tracking will stop after 5 seconds.
- **Continuous Tracking** The camera will automatically track the target.

Control Status	Operation	
Connect	PTZ Control	AI Setting
Disconnect	PTZ Control	AI Setting
Connect	PTZ Control	AI Setting



Video Output Setting

- **Video Output Mode** Select HDMI or UVC
- **HDMI** Output to a display or matrix
- **UVC** USB output to video conferencing software
- **Video Output Layout** Set the output layout. Cross, PBP and Crop.
- **Seamless Switching** Display the current target in full screen. Image switching will be triggered by Microphone signals.

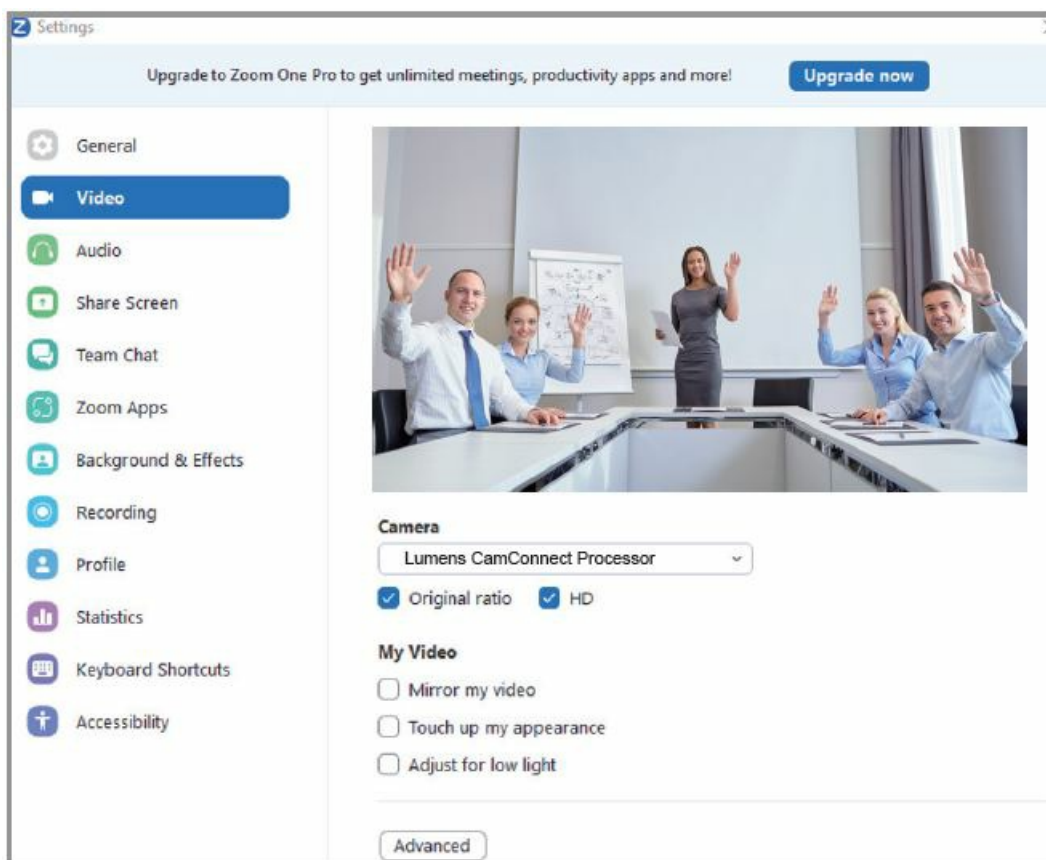


Start Video Output

- Click to start streaming [Start Video Output](#) output live video.

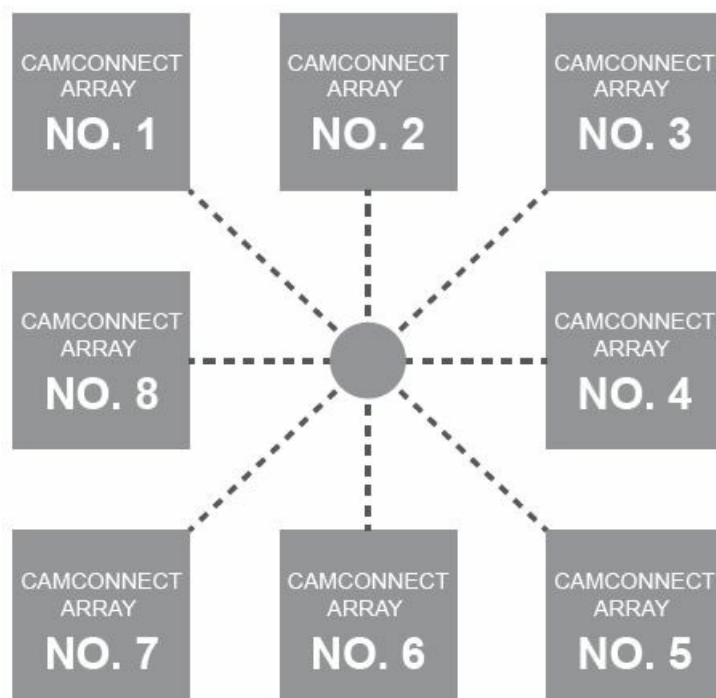
Use AI-Box1 with Video Conference Software

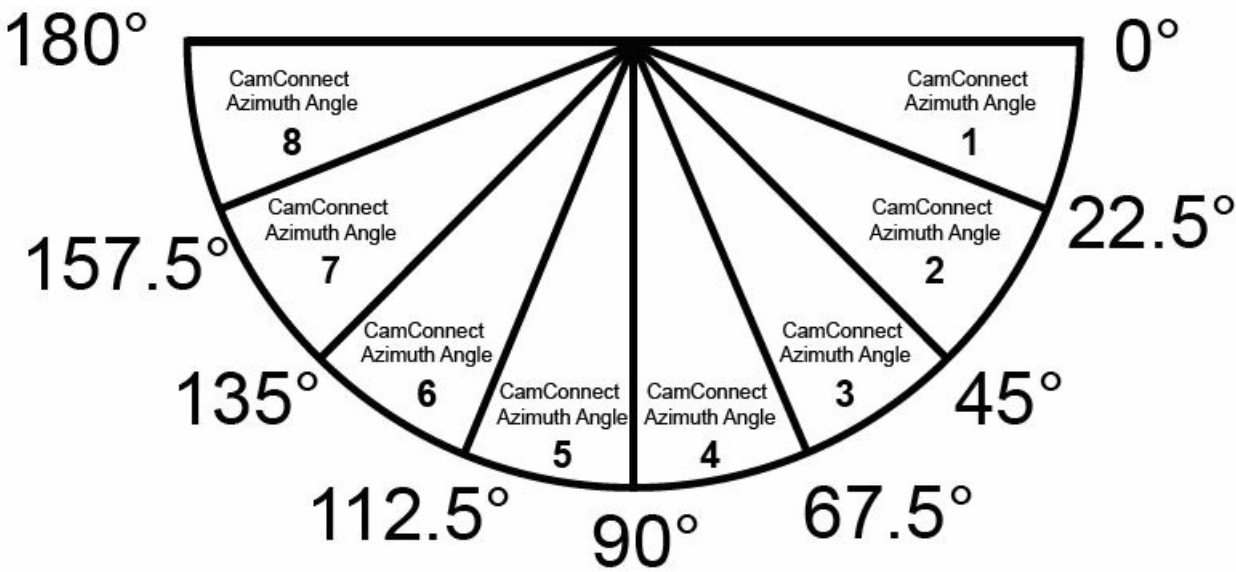
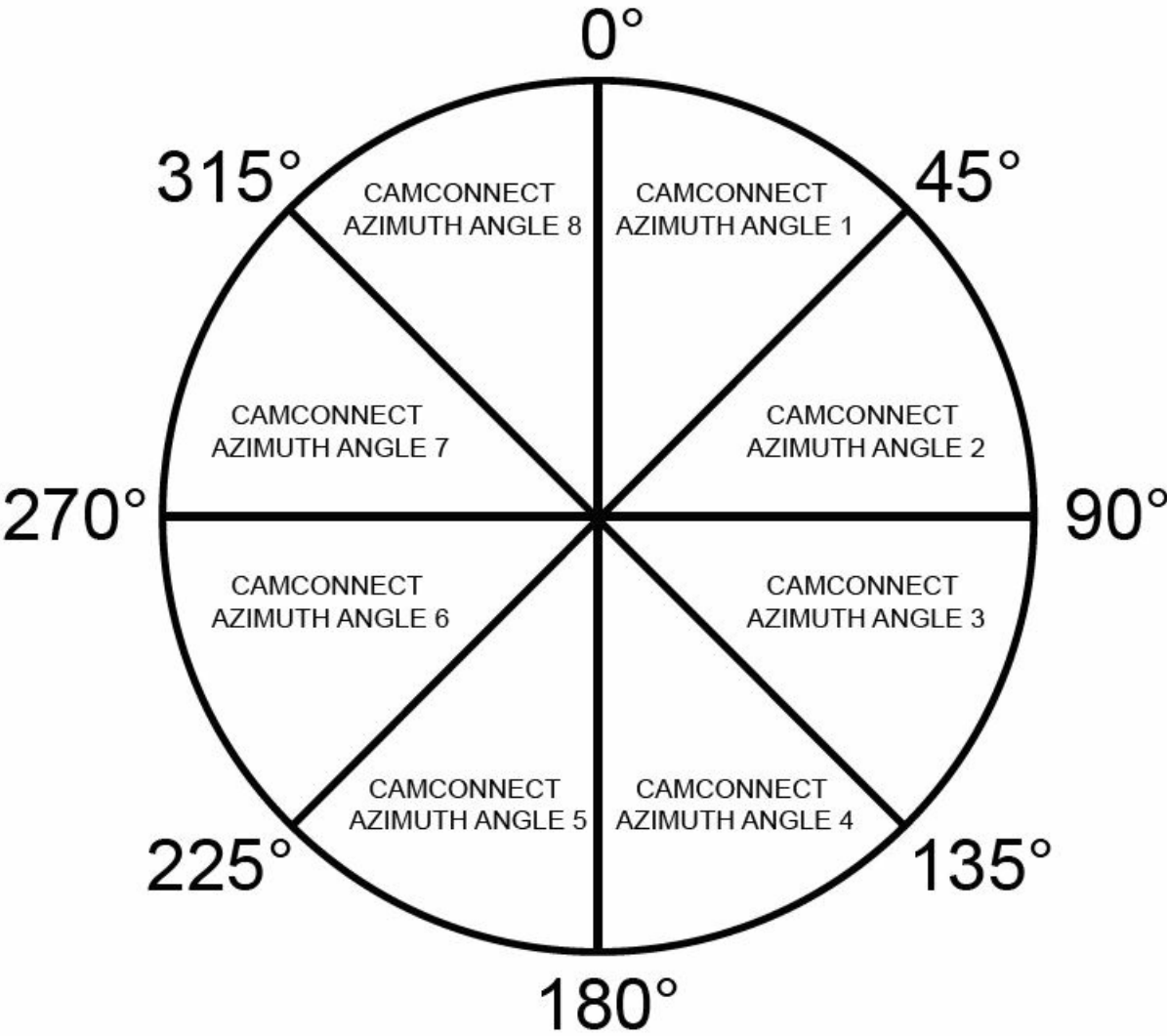
- Set AI-Box1 Video Output Mode to UVC and click [Start Video Output].
- Launch your video conference software. (e.g., Skype, Zoom, and Teams)
- Select Video Source: [Lumens CamConnect Processor]

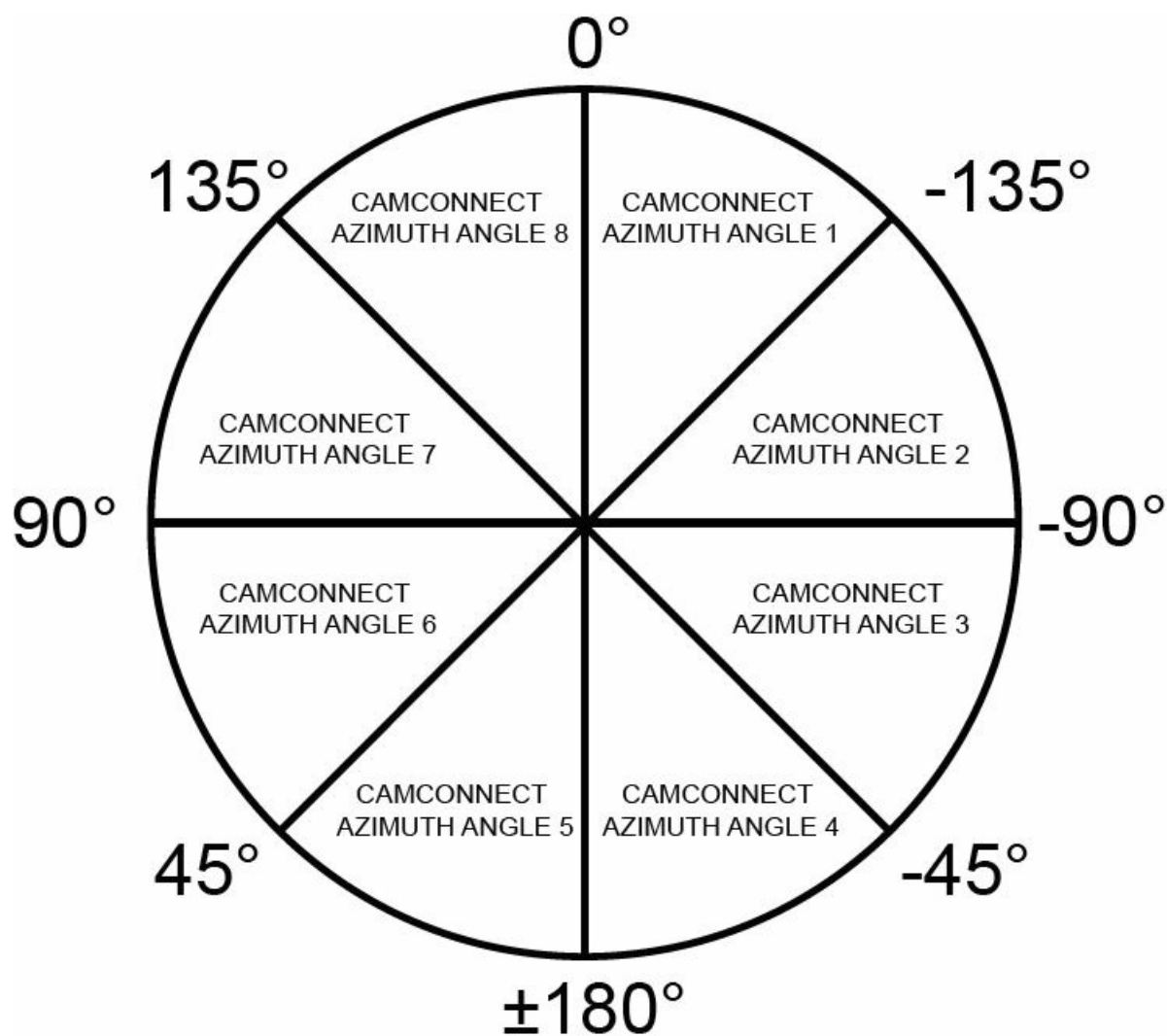


Example Azimuth / Array Configurations

SHURE



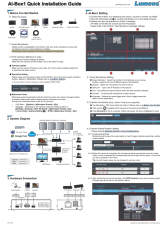




Please visit <https://www.youtube.com/mylumens>. to watch related videos. www.MyLumens.com.



Documents / Resources

	<p>Lumens AI-Box1 CamConnect Processor [pdf] Installation Guide AI-Box1, AI-Box1 CamConnect Processor, CamConnect Processor, Processor</p>
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