# CamConnect Al-Box1

# **User Manual - English**



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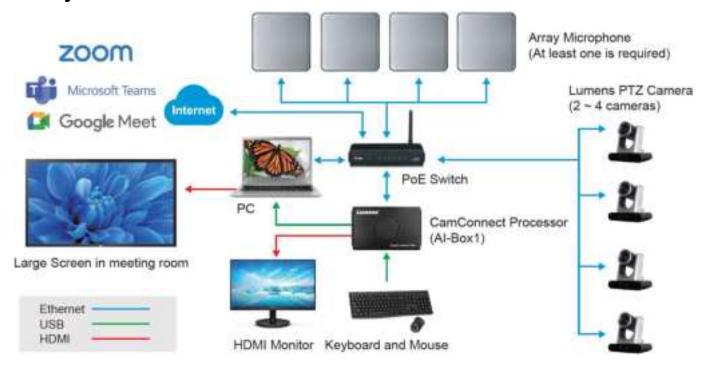
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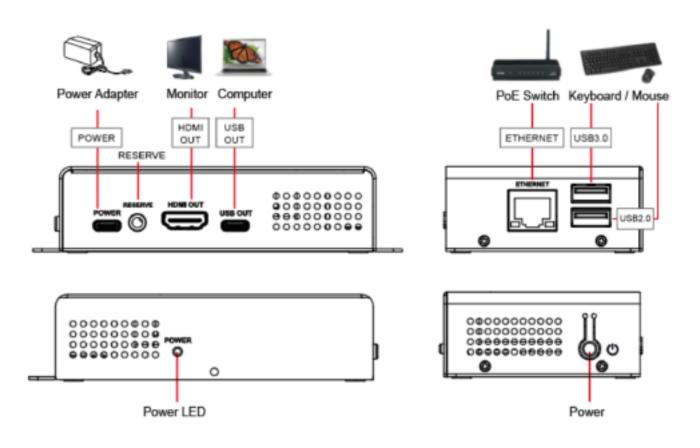


# **Chapter 1 System Connection**

### 1.1 System Connection



### 1.2 Al-Box1 IO Interface



# **Chapter 2 Operation Interface**



## 2.1 (A)Device Setting

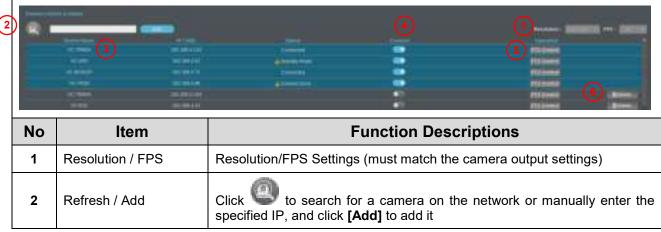


No	Item	Function Descriptions	
1	Device Number	Select the desired number of microphones to connect	
2	Device List	Displays microphones in individual tabs	
3	Devices Select Microphone Device		
3	Devices	Please use a supported microphone (see Lumens website)	



4	Device IP	Enter the IP address of the microphone		
		Displays the microphone's port		
		■ Shure: 2202■ Shure: 2202		
		■ Sennheiser: 45		
_	5 /	■ Sennheiser TCCM: 443		
5	Port	■ Nureva: 8931		
		■ Yamaha: 49280		
		■ Audio-Technica : 17300		
		Only Nureva allows customized PORT		
6	Connect	Enable/Disable setting mode		
		When enabled, signals received by a microphone triggers camera preset		
7	Voice Tracking	positions. When setting camera presets, it is important to disable this		
		function.		
	Audio Trigger Level > dB	Trigger when an audio source exceeds the selected dB value.		
		■ Sennheiser:-90~0 (recommended -55)		
8		■ Nureva:0~120 (recommended 40+)		
		■ Audio-Technica:0~60 (recommended 30)		
		■ Yamaha:0~126 (recommended 80+ for RM-CG / 70+ for RM-W)		
		Audio Reception Delay Settings		
9	Time To Trigger Preset	When a second sound trigger occurs, there will be a delay in triggering		
		camera preset based on the configured duration in seconds.		
		Return the camera to its home position		
10	Back To Home Time	If there is no audio input, the camera will move to its home position after		
		the set seconds.		
11	Back to Home Camera	Select one camera or select all cameras to move to home position.		
12	Back To Home	Camera will return to either Home position or a specific preset position.		
	Position			
13	Apply	Confirms changes to settings.		

## 2.2 (B)Camera Control & Status





		Please ensure that the camera and Al-Box1 are on the same		
		network segment.		
3	Device Name	Displays discovered cameras		
4	Connect	Click to connect. Connected camera are highlighted in blue.		
5	PTZ Control	Click to enable PTZ control  Refer to 2.2.1 PTZ Control for function description		
6	Delete	Delete a camera from the list.		

## 2.2.1 (C) PTZ Control

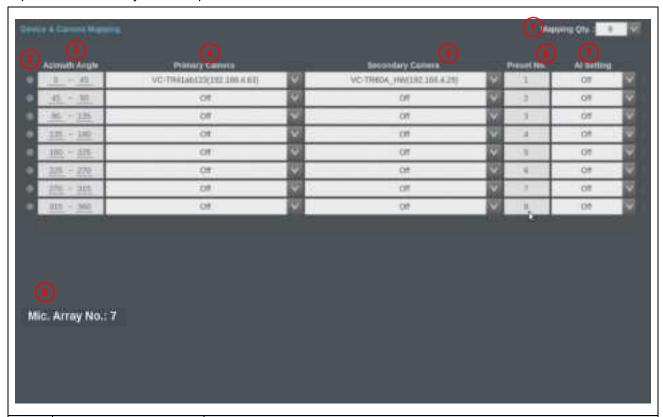


No	Item	Function Descriptions	
1	Preview window	Display the camera output	
2	Mirror / Flip	Mirror or flip the image	
3	Adjust the Pan/Tilt position of the camera		
3 Pan/Tilt/Home Click [Home] button to return to the camera's central position		Click [Home] button to return to the camera's central position	
4 Preset setting  •Call Preset Position : Click a number first and then •Store Preset Position : Click a number first and then		■Call Preset Position: Click a number first and then	
		■Store Preset Position: Click a number first and then	
5	AF/MF	Switch to Auto/Manual camera lens focus	
6	Zoom	Lens Zoom In / Out	
7	Exit	Exit the PTZ Control page	

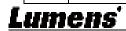


### 2.3 (D)Device & Camera Mapping

When a microphone is connected, the camera will move to a preset position corresponding to the sound position detected by the microphone.

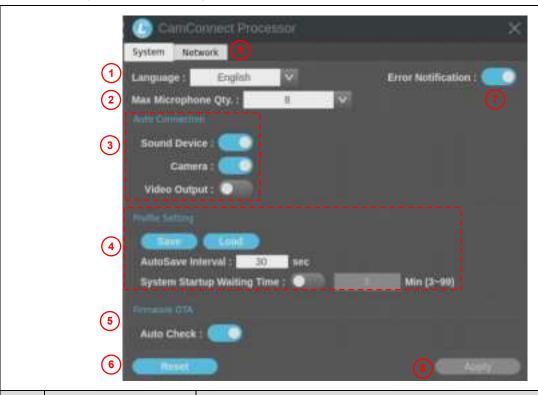


No	Item	Function Descriptions		
1	Mapping Qty	Select the number of locations to be mapped. Up-to 128 presets supported. Shure MXA310/ MXA910/ MXA920/ Audio-Technica no supported Not supported with Shure MXA310/ MXA910/ MXA920 and Audio-Technica microphones.		
2	Indicator	A green light indicates that the microphone is detecting a sound.		
3	Array No. Azimuth Angle	<ul> <li>Array No.: Applicable to Shure / Audio-Technica devices</li> <li>Azimuth Angle: Applicable to Sennheiser, Nureva, and Yamaha devices.</li> <li>Angles can be manually adjusted</li> </ul>		
4	Primary Camera	Select a desired Primary camera from the dropdown menu.  If unable to connect with a previously saved camera,   will be displayed.		
5	Secondary Camera	Select the desired Secondary camera from the dropdown menu.  When a camera is triggered to a preset position, and another preset position for the same camera is subsequently triggered, the Secondary camera will be the prior one to move to instead of the primary camera.  Note: This feature is available only when Seamless Switching is enabled.  If unable to connect with a previously saved camera,  will be displayed.		
6	Preset No.	Select the preset position for the camera from the dropdown menu		
7	Al Setting	Enable/Disable Al Tracking  Continuous Tracking: The camera will continuously track the		



		<ul> <li>individual, keeping them in the center position.</li> <li>Center Stage: When the camera has been triggered to a preset position, the individual will be centered on the screen for 5 seconds before tracking stops.</li> </ul>
8	Mic. Array No./ Mic. Azimuth Angle	Displays current trigger position / angle information of the camera.

# 2.4 (E)System Settings



No	Item	Function Descriptions	
1	Language	English	
2	Max Microphone Qty.	Connect up-to 24 microphones.	
Auto-connected items setting after Al-Box1 power is		Auto-connected items setting after Al-Box1 power is turned on.	
3	Auto Connection	■ Sound Device	
	Auto Connection	■ Camera	
		■ Video Output	
	Profile Setting	■ Save/ Load: Save or Load the desired profile.	
		■ AutoSave Interval: Set the auto saving interval.	
		■ System Startup Waiting Time: Set startup waiting time.	
4		After Al-Box1 powers on, it will automatically search for microphones and	
•		cameras. If the devices have a long boot-up time, Al-Box1 may not	
		connect to the devices properly. To prevent this issue, please adjust the	
		system waiting time based on the current environment and the boot-up	
time of the microphones and cameras.		time of the microphones and cameras.	
5	Firmware Auto Check	Automatically checks for firmware updates.	

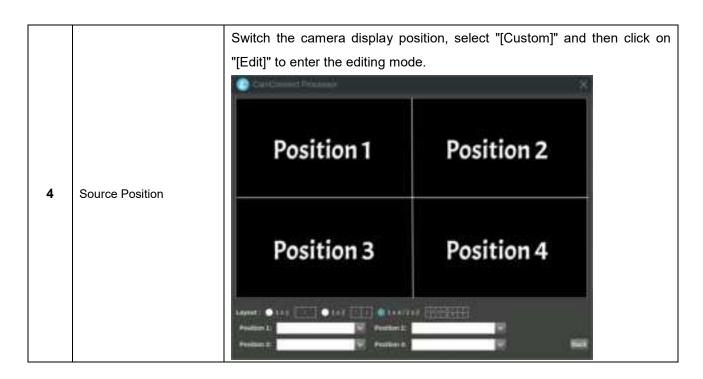


6	Reset	Resets the CamConnect Pro Al-Box1.	
7	Error Notification	Turns on/off error message and notifications.	
8	Apply	Confirm and apply settings.	
9	Network	Confirm and apply settings.  IPV4  Method: DHCP  Static IP  Address: 192.168.100.201  Netmask: 255.255.255.0  Gateway: 192.168.100.1  DNS: 8.8.8.8  Apply  MAC Address: 26:e9:c7:10:1e:54  Choose either DHCP or Static. The address can be modified in Static mode. Click Apply to save.	

# 2.5 (F)Video Output Settings



No	Item	Function Descriptions	
1	Video Output Mode	Set the Output Mode to either UVC, HDMI or UVC+HDMI	
	Configure the layout of the video output according to the reference in section <a href="2.5.1 Video Output Layout">2.5.1 Video Output Layout</a> • Cross: 4-split screen		
2	Video Output Layout	■ PBP: Picture by Picture screen ■ Crop: Screen cropping function  Choose either Cross/PBP only	
3 Seamless Switching The system is set up for single screen output, and camera switching triggered by the microphone signal.		The system is set up for single screen output, and camera switching is	



2.5.1 Video Output Layout

	Connecting with 1 camera	Connecting with 2 cameras Connecting with 3 cameras		Connecting with 4 camera	
Cross	Position 1	Position 1 Position 2	Position 1  Position 2 Facilian 3	Position 1 Position 2 Position 3 Position 4	
PBP	Position 1	Position 1 Position 2	Portrien I Position 2 Position 3	Facilian 1 Pavilian 2 Position 3 Position 4	

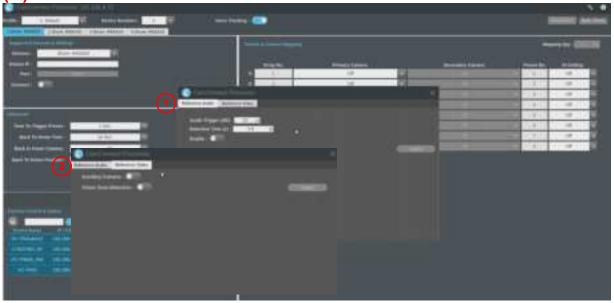
	Crop On	Crop Off
Crop		10 14 4



## 2.6 (G)Start Video Output

Click to output camera images via HDMI, UVC or HDMI+UVC.

## 2.7 (H) Extension



No	項目	功能說明
		The problem to address
		To ensure that during a conference meeting, the voice from the customer's
		side will not be detected by the ceiling microphone from our end, which
		could accidently trigger the camera.
		Connection:
		Connect all devices using the Lumens audio cable splitter.
	Reference Audio	Connect one end (with two rings) to the computer.
	(The Lumens audio	2. Connect the other end (with three rings) to the Reserve hole on the
1	cable splitter is	CamConnect Pro.
	required to enable this	3. The end with a single ring should be connected to the speaker to
	function.)	capture the audio.
		Audio Trigger(dB): Set the audio detection threshold (-100~0 dB).
		The microphone will only trigger detection when the volume exceeds the
		set threshold.
		<b>Detective Time(s)</b> : Set the duration of the detection (0~10 seconds)
		Enable: On / Off
		Apply: Click to apply the settings.
	Reference Video	The problem to address
2.		The camera may be triggered by any sound, whether it is caused by a
	(The Lumens BC200	human or just incidental noise. With the Lumens BC200 auxiliary camera,



camera is required to enable this function.)

the system will no longer be triggered by sound alone. It will also use Al face recognition to detect people on site. The camera will only be triggered when an audio source is accompanied by a human face that can be detected.

**Connection:** The Lumens BC200 auxiliary camera must be connected. The BC200 is set to be released in Q1 2025. For a more detailed introduction, please refer to the BC200 user manual at that time.

Auxiliary Camera: Enable or disable the BC200 camera.

**Vision Zone Detection**: This feature is not functional at the moment and is not for use.

Apply: Click to apply the settings.

### 2.8 (I) Disk Check

Measure the reading from the SD card to check if it is working properly.

The reading data can be provided to Lumens personnel for further inspection.



### 2.9 (J)Information



**Function Descriptions** 



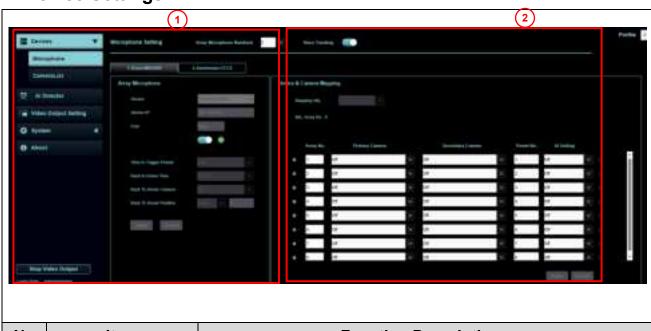
This window displays the software version information of Al-Box1. Click on latest version and do apply updates.

For technical support, please scan the QRcode on the right.



# **Chapter 3 Web Interface**

# 3.1 Device Settings

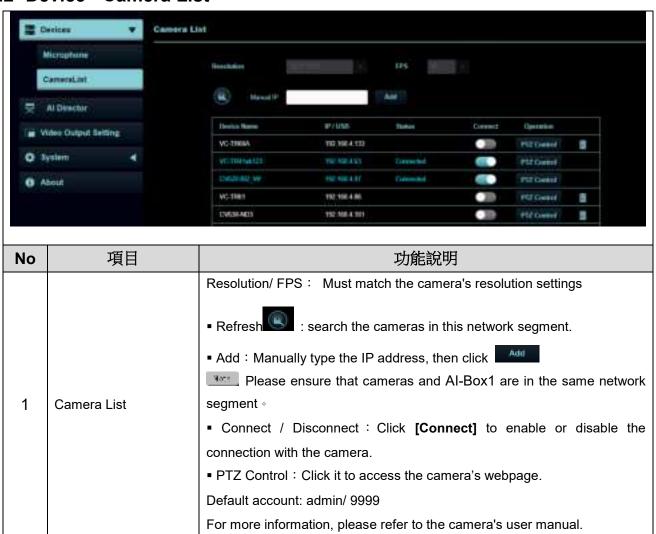


No	Item	Function Descriptions
1	Array Microphone	<ul> <li>Array Microphone Number: Select the desired number of microphones to connect</li> <li>Devices: Select a Microphone</li> <li>Device IP: Enter the IP address of the microphone</li> <li>Displays the microphone's port         <ul> <li>Shure: 2202</li> <li>Sennheiser: 45</li> <li>Sennheiser TCCM: 443</li> <li>Nureva: 8931</li> <li>Yamaha: 49280</li> <li>Audio-Technica: 17300</li> </ul> </li> <li>**Only Nureva allows customized PORT</li> <li>Connect: Enable/Disable microphone connection</li> <li>Advanced Function Settings</li> </ul>
		Audio Trigger Level > d8: 455  Time to Trigger Preset: 1 5 8ec.   Back To Home times: 10 Sec.   Back To Home Camera:   Back To Home Position: Home   Close Apply

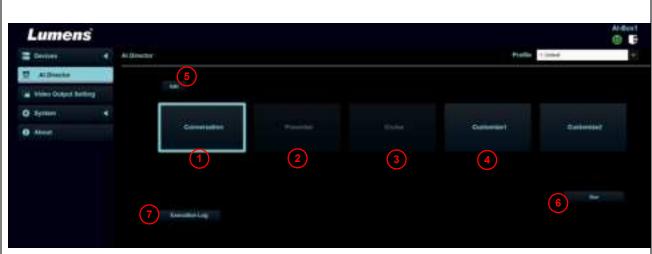


		■ Audio Trigger Level > dB: Triggered when an audio source exceeds the
		specified dB value.
		> Sennheiser:-90~0 (recommended -55)
		> Nureva:0~120 (recommended 40+)
		> Audio-Technica:0~60 (recommended 30)
		> Yamaha:0~126 (recommended 80+ for RM-CG / 70 up for RM-W)
		■ Time To Trigger Preset: Audio Reception Delay Settings
		When a second sound trigger occurs, there will be a delay in triggering camera preset based on the configured duration in seconds.
		Back To Home Time: If there is no audio input, the camera will move to its home position after the set seconds.
		■ Back To Home Position: You can select either the Home position or
		designate a preset number.
		• Voice Tracking: When enabled, the microphone can receives signals,
		and the camera would moves to preset positions when triggered. When
		setting preset positions, disable this function.
		Mapping Q'ty: Select the number of locations to be mapped. Up-to 128
		presets supported.
		Shure MXA310/ MXA910/ MXA920/ Audio-Technica no supported
		Not supported with Shure MXA310/ MXA910/ MXA920 and
		Audio-Technica microphones.
		• Indicator: a green light indicates that the microphone is detecting a sound.
	Device & Camera mapping	Array No. / Azimuth Angle:
		> Array No.: Applicable to Shure/ Audio-Technica devices
		> Azimuth Angle: Applicable to Sennheiser, Nureva, and Yamaha
		devices. The angle can be manually adjusted
2		■ Primary Camera: Select a Primary camera from the dropdown menu
		Secondary Camera: Select a desired Secondary camera from the
		dropdown menu. When a camera is triggered to a preset position, and
		another preset position for the same camera is subsequently triggered, the
		Secondary camera will be the prior one to move to instead of the primary
		camera.
		Note: This feature is available only when Seamless Switching is enabled
		■ Preset No.: Select the preset position for the camera from the dropdown
		menu
		■ Al Setting : Enable / Disable Al tracking
		> Center Stage: When the camera has been triggered to move to a
		preset position, the individual will be centered on the screen for 5
		seconds before tracking stops.
		> Continuous Tracking : The camera will continuously track the
		individual, maintaining them in the center position.

#### 3.2 Device - Camera List



#### 3.3 Al Director



No	Item	Function Descriptions
		Pre-designed scripts are available for selection, allowing customers to use
1.	Conversation Mode	templates without customization. (More templates will be available in the
		future)
2	Presenter Mode	Not available for now.



3	Cruise Mode	Not available for now.
4	Customize	Create and fully customize your own 2 unique scripts.
5	Edit	Edit the contents of the script
6	Run / Stop	Start or stop the script running.
7	Execution Log	Display the log activity of Al Director.

#### **Example of script creation**

Script Edition: Conversation Mode Example



**A.** Camera: Assign commands for connected cameras to move to a preset position or return to their home position.

#### B. Microphone:

- 1.trigger count: Set the number of triggers (1~100) required to activate the camera.
- 2. All Mic off Stream: Define the action CamConnect Pro will take when the microphone stops receiving sound. For example, change the image layout scene or send commands to cameras.

(See example below)



#### C. Layout:

- 1. Video Layout: Cross / PBP
- 2. Video Layout of camera quantity: 1x1 / 1x2 / 1x3 / 2x2
- 3. Video source to specific position



#### D. Control

- 1. Script Start:
  - a. This block must be placed at the beginning of any valid script.
  - b.Set the priority to determine which script takes precedence when multiple scripts are active.
- 2. Script End: This block must be placed at the end of any valid script
- 3. Delay time: milliseconds / seconds / minutes
  - a. Set the custom time and select the units.
  - b. This block can be used as a stopover point in a script.

#### Example:

```
Script Start (Priority: 1 )
Call CAM (VCTR61:25:U(192:168.4:109) •
Preset 1
delay (000) milliseconds
Select Video Laynet Mode | Cross |
Select Video Laynet Mode | Cross |
Video Source to Position 1 by CAM 1 | CV630:ND3(192:168.4:101) •
delay 1 minutes
Call CAM (VCTR60A_HW(192:168.4:29) •
Preset 1
Script End
```

Note: A valid script must always include both the Script Start block and Script End block.

- E. Leave: Exit the page
- F. Save: Save the settings
- G. Run: Start executing the script
- **H.** Bin: Drag unwanted blocks to the bin icon to discard them.
- I. Execution Log: Displays the activity log of the Al Director.

Script edition: Customize Mode example



#### A. Camera

1. Preset Cruise

Set how the preset positions of 2–3 cameras are triggered in sequence

Mode 1: Assign one preset position for each camera. Each camera moves to its preset position in order.



Mode 2: Assign two preset positions for each camera. Each camera move to their preset positions in order.

Configurable value: 1. Movement speed (degrees per second) for the camera when the preset position is triggered.

2. Delay time(seconds)

#### 2. Camera settings

- a. Move to a specific preset position or home position
- b. Movement speed (degrees per second) for the camera when the preset position is triggered.

#### B. Layout

- 1. Layout: Cross / PBP
- 2. Video Layout for Camera Quantity: 1x1 / 1x2 / 1x3 / 2x2
- 3. Video source to specific position

#### C. Control

- 1. Script Start:
  - a. This block must be placed at the beginning of any valid script.
  - b.Set the priority to determine which script takes precedence when multiple script are active.
- 2. Script End: This block must be placed at the end of any valid script.
- 3. Delay time: milliseconds / seconds / minutes
  - a. Set the custom time and select the units.
  - b. This block can be used as a stopover point in a script.
- 4. Reschduled in \_ seconds: Specify how many seconds will be needed before triggering the next step.
- 5. Repeat Count: How many times the scrpt will repeat
- 6. Script stop: Stops the script execution.
- 7. Loop Script: The script will repeat continuously.

#### Example:

Note: A valid script must always include both the Script Start and Script End blocks.



```
Scope Start (Priority 12)
               Call Att C Front Cope
                 Select Camera Amount: 200
                 Come Multi-23X start S-X end S-V start S-V end Cl
                 C/MA: VC-TR41-29-U/192-168-4-199)
                 Present A Start (E) Present A sent (E)
Present Septembra A - ASS degrees
Delay (E) A
CAM II - VCATRAL-29-U(19-AM-0.4-109-)(E)
                Preset II filet: [] Preset files | 2]
Preset Speed II [] [] degree:
Delay [] a
CAM C. Lindon
                 CAM C VIG-TRASSES 23/192 560 4 63/1
                 Preset C Start (1) Preset C and (2)
                 Phone Speed C (550) deglars
                 Delay Els
                Resolution in 13 occurrin
                 execution Select Cam Amount E82
                             Video Season to Position: 1. by CAM 1. LECTRAL/2948/1992/1988/4.109/20
                              World Source to Proston 2 by CAM 2 VG-TR61(192466-4.06)
                              Valor Source to Pention 1 by GAM's VS-TR41ab123(192:168.463) 19
                              When Several to Providen: 4 by CAM 4 | SMIRES
                              drilay (1020) milliceconds
                              CV630-ND3(192 168 4 101)
D. Leave: Exit the page
```

- E. Save: Save the settings
- F. Run: Start executing the script
- G. Bin: Drag unwanted blocks to the bin icon to discard them.
- H. Execution Log: Display the activity log of Al Director.

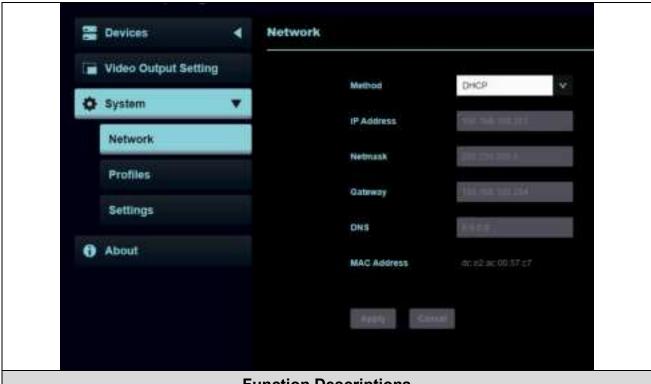
## 3.4 Video Output Settings



No	Item	Function Descriptions
1	Video Output Mode	HDMI,UVC or HDMI+UVC
2	Coomless Switching	The system is set up for single screen output, and the camera switching is
	Seamless Switching	triggered by the microphone signal.
	Layout Type	Configure the layout of the video output according to the provided reference in section <u>2.5.1 Video Output Layout</u>
		■ Cross: 4-split screen
3		■ PBP: Picture by Picture screen
		■ Crop: Screen cropping function
		Choose either Cross/PBP only
4	Source Position	Custom / Auto
		Choose how many camera images will be displayed on the screen.
5	Layout	Position: Determine which camera source will be displayed in each
		position
6	Start Video Output	Click the button to start or stop video output.



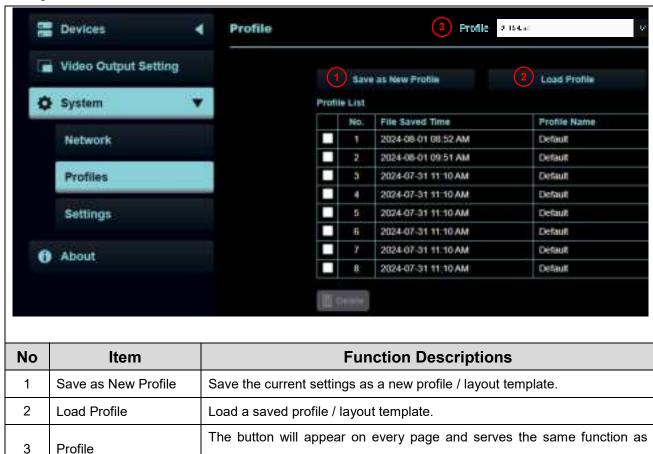
#### 3.5 System- Network



#### **Function Descriptions**

Ethernet Settings. When it is set to Static IP, settings can be modified. Once the settings are complete, click Apply.

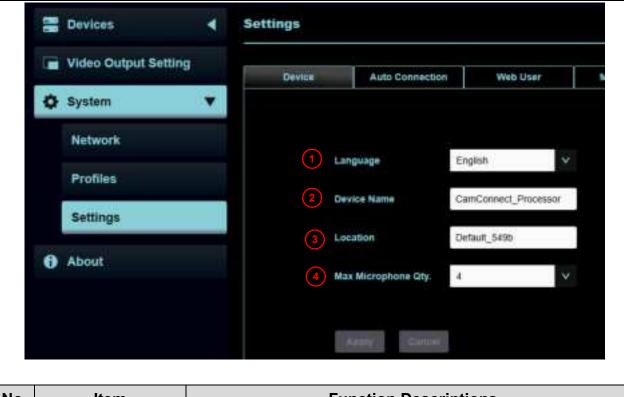
### 3.6 System- Profile



Load Profile.

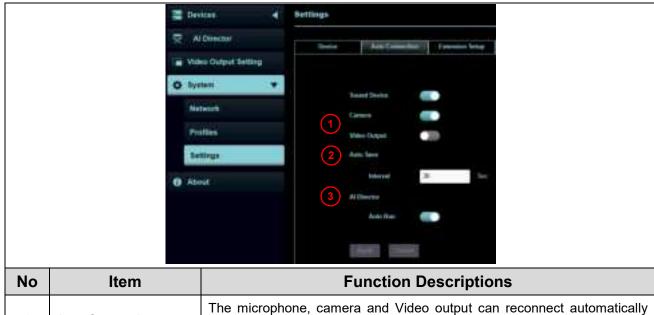


### 3.6.1 System- Settings-Device



No	Item	Function Descriptions
1	Language	English
2	Device Name	CamConnect_Processor
3	Location	Default_XXXX (The last four characters of the MAC address)
4	Max Microphone Qty.	4 / 8 / 16 / 24

### 3.6.2 System- Settings- Auto Connection



after restarting the AI Box.

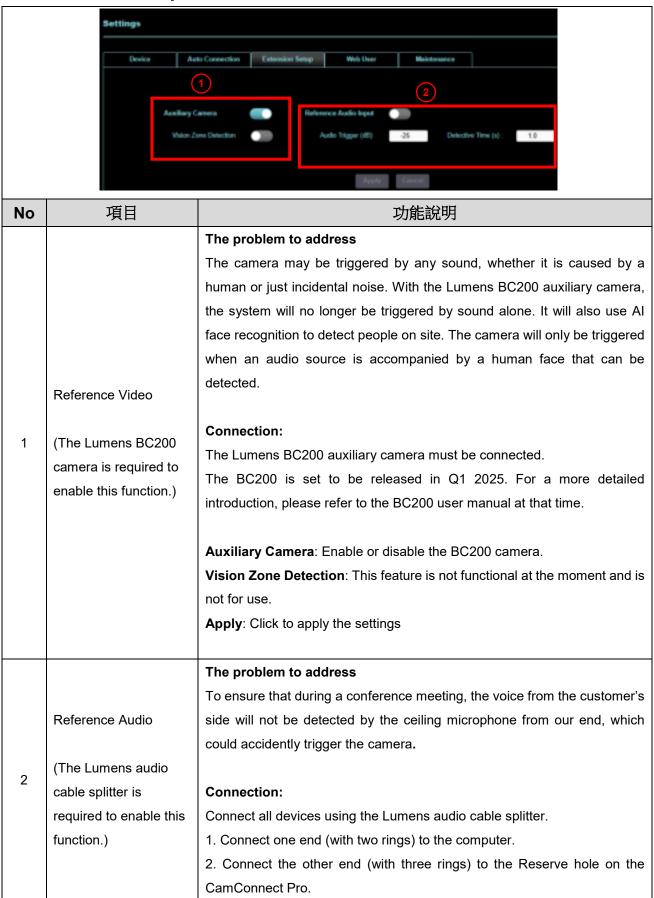


1

**Auto Connection** 

2	Auto Save	The profile can be saved automatically after a specific interval time.
3.	Auto Run	Al Director will be run automatically.

### 3.6.3 Extension Setup



3. The end with a single ring should be connected to the speaker to capture the audio.

Audio Trigger(dB): Set the audio detection threshold (-100~0 dB).

The microphone will only trigger detection when the volume exceeds the set threshold.

**Detective Time(s)**: Set the duration of the detection (0~10 seconds)

Enable: On / Off

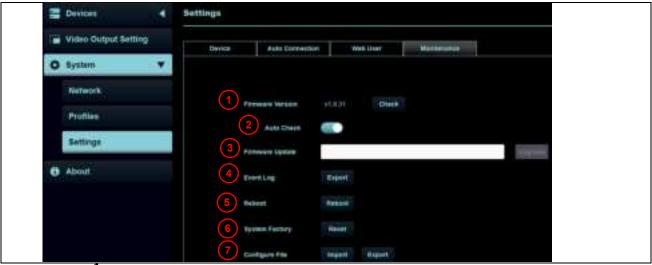
**Apply**: Click to apply the settings.

## 3.6.4 System Settings: Web User



No	Item	Function Descriptions
1	User Name	Admin
2	Current Password	The password currently set for your account.
3	New Password	Enter a new password.
4	Confirm Password	Re-enter your new password to confirm.

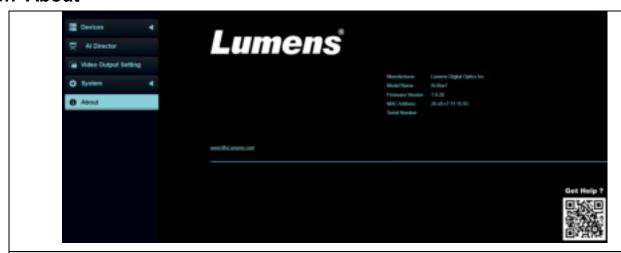
### 3.6.5 System- Settings- Maintenance





No	Item	Function Descriptions
1	Firmware Version	Displays the current firmware version of the device.
2	Auto Check	Automatically checks if new firmware is available.
3	Firmware Update	Allows you to select and update a firmware file from your computer.
4	Event Log	The log file records activity over time and can be exported.
5	Reboot	Restarts the device.
6	System Factory	Resets the device to its factory default settings.
7	Configure File	Import /Export the current configuration.

### 3.7 About



### **Function Descriptions**

This window displays the version information of Al-Box1.

For technical support, please scan the QR code at the bottom right

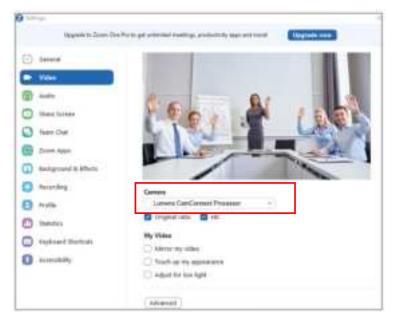


# **Chapter 4 Connect to video conferencing software**

4.1 Set the output mode of Al-Box1 to UVC or HDMI+UVC, then click the Video output button



- 4.2 Launch software (such as Skype, Zoom or Microsoft Teams)
- 4.3 Select CamConnect as the video source
  - Video Source Name: Lumens CamConnect Processor



## **Chatper 5 Microphone Settings**

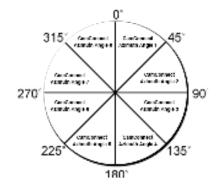
Please check the latest list of supported microphones on the Lumens website.

Below are examples. Compatibility is not limited to these microphones.

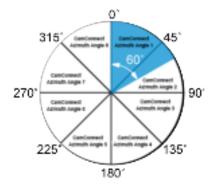
Before installing Al-Box1, third-party microphone systems may require configuration.

#### 5.1 Sennheiser

When using TCC2 with CamConnect, set and configure the channels on the Sennheiser Control Cockpit software first. By default, Sennheiser divide a space into 8 equal parts in a horizontal angle of view. They correspond to CamConnect Azimuth Angle 1 to 8.

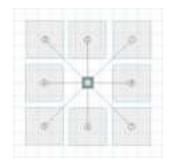


If a blocked area is enabled on the Sennheiser Control Cockpit software, the corresponding position of CamConnect will also be affected. Example: If the blocked area is set to 0° to 60°, the audio signal from 0° to 45° of CamConnect Array Azimuth 1 and 45° to 60° of Array Azimuth 2 will be ignored.



#### 5.2 Shure

Suitable for large-area positioning when Shure Designer Automatic coverage is On.



If more accurate positioning is required, disable Automatic coverage, adjust Gain value/Position manually and reduce the beamforming angle, to achieve accurate positioning.





# **Chapter 6 Troubleshooting**

This chapter describes problems you may encounter while using AI-Box1. If a problem still occurs, please contact your distributor or the service center.

NO	Problems	Solutions
1.	Unable to search camera devices	<ol> <li>Check the power supply of camera or PoE power supply is stable.</li> <li>Make sure the cameras are on the same network as the CamConnect Al-Box1.</li> <li>Replace the cables and make sure they are not faulty</li> </ol>
2.	The microphone fails to detect the position of a sound	Please confirm that the microphone device is in Connected status
3.	When using a Sennheiser microphone, there is no response at a specific angle	1.Make sure the Azimuth Angle settings in the CamConnect software include that angle position     2.Check the blocked zones in the Sennheiser Control Cockpit software. Refer to 5 Microphone Settings for details.
4.	When setting camera preset positions, the camera moves when it hears a sound from another direction.	Please refer to <u>2.1 Device Setting</u> to disable voice tracking during the camera set-up process.
5.	Unable to connect camera.	Please access the camera's web interface and go to the Network tab. Make sure Multicast is disabled. When Multicast is opened, the Al-Box1 cannot connect the camera.  RTSP  Linkle Multicast  RESP URL. ILED // 150.4.15.055 // IRESP URL. ILED // IRESP URL
6.	Cannot upgrade firmware by OTA.	Please check if you are using static IP.  Turn to DHCP and try update again.



# **Chapter7 System Message**

No	Warning message	Action
1	Microphone cannot be found. Please check Microphone connection status and try to connect again.	Ensure that the microphone's port has been typed correctly and check if the IP address is on the same network as the AI-Box.  You can also refer to the link below from for more information about the setup method with compatible ceiling microphones. <a 3?id2="5&amp;keyword=ai%20box&amp;keyword2=&amp;pageSize=10&amp;ord=&lt;/a" downloads="" en="" href="https://www.mylumens.com/en/Downloads/3?id2=5&amp;keyword=ai%20box&amp;keyword2=&amp;pageSize=10&amp;ord=" https:="" www.mylumens.com=""></a>
2	Connection Loss.	The connection between the Al-box and the microphone has been lost.  Please check if the microphone has been accidentally turned off or if there is another network issue. Refer to 3.1 Device - Microphone Setting to check the microphone's status.
3	Camera connection failure	Check if the camera's resolution and FPS have been configured correctly with the Al Box. Access the camera's webpage to confirm its network connectivity. Refer to 3.2 Device - Camera List to check resolution of Al-Box1.



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