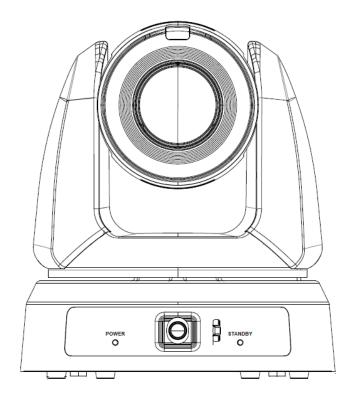
VC-TR61/ VC-TR61N

Auto Tracking Camera

User Manual - English



Version VVB100

To download the latest version of Quick Start Guide, multilingual user manual, software, or driver please visit the Lumens website:

https://www.MyLumens.com/support



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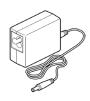
Chapter 1 Packing List

Power Adapter

Power Cord

USB 3.0 Cable-2m (Type B - Type A)

Remote Control







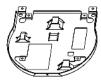


Metal Plate A

Metal Plate B

M3 Screws Silver x8/ Black x2

3 PIN-2 PIN Connector





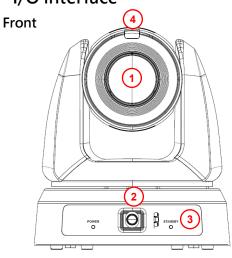


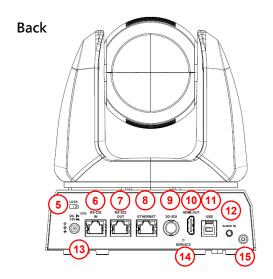


Lumens®

Chapter 2 Product Appearance

2.1 I/O interface





NO.	項目	功能說明	
1.	Main camera lens	PTZ camera lens	
		Panoramic camera lens	
2.		Note When the camera is installed at a height above 2	
۷.	Panoramic lens	meters, we recommend adjusting the tilt position.	
		Refer to 3.2.5 Tilting the Panoramic Lens	
3.	LED indicators	Displaying the status of the camera, refer to 2.2 LED	
5.		Indicator	
4.	Tally Lamp	Displays the Tally Lamp status of the camera	
5.	Lock	Safety lock slot	
6.	RS232 IN	RS-232 port, up to 7 cameras can be connected.	
7.	RS232 OUT	Pin out please refer to 3.3.2 RS-232 Pin Definition	
8.	Ethernet	Network port, with PoE+ (IEEE802.3at) support	
9.	3G-SDI	3G-SDI output (BNC 75Ω / supports SMPTE 425M)	
10.	HDMI OUT	Video output	
11.	USB3.0	Connect to the computer's USB port; delivers USB video	
12.	Audio In	3.5mm Line in	
13.	DC IN 12V	DC supply connecting port	
14.	Service	Safety lock slot	
15.	Lock	Safety lock slot	



2.2 LED Indicators

Status	Power	Standby	
Power not connected	No light	No light	
Startup in progress	Green	Orange	
(initialization)		a range	
Power on (In use)	Green	No light	
Standby	No light	Orange	
Tracking / Framing mode	Green Flickering	Green Flickering	
Privacy mode	Orange	No light	

2.3 Tally Lamp

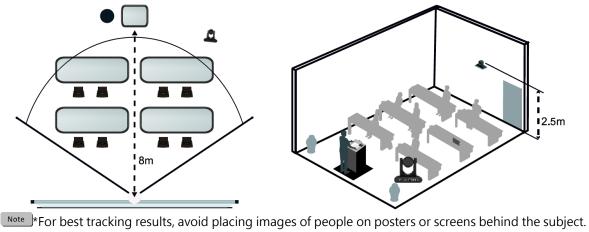
The Tally lamp function can be enabled by an RS-232 command. Please refer to the RS-232 command set document



Chapter 3 Installation Instructions

3.1 Scenario

VC-TR61/ VC-TR61N supports a tracking range of 2-18m



3.2 Installation Instructions

PTZ installation and connection requires special skills. It is important to securely install the device. Pay attention to your safety and to the safety of those around you during the installation. Ensure the safety of the installation environment. Do not install the device to an unstable ceiling or at a height that may risk injury to people below.

- 3.2.1 Please ensure installation safety, please do not mount the device on an unstable ceiling or in any location where it may fall, as this could lead to accidents.
- 3.2.2 Please check that accessories in the box are complete. Please contact the supplier for any shortage, and make sure to keep the accessories in the box.
- 3.2.3 Please choose an appropriate location for installation of camera in advance.Please determine an installation site according to the following requirements:(A) Confirm the position for the object to be captured.
 - (B) Confirm whether the camera is set at a proper distance from light sources

3.2.4 Handling Instructions

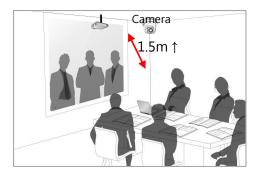
- Do not hold the camera by its pan/tilt head.
- Do not manually rotate the camera head. Improper rotation may result in damage.



 Before installation, confirm the camera orientation relative to the object to be captured.



• It is recommended that the camera should be set at a distance of more than 1.5 meters from the object to be captured. Adjust the position to achieve your required shooting angle.

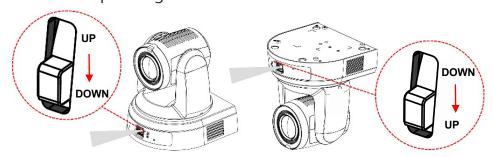


- The Camera (including metal plates) weighs approximately 2.7 kg. For ceiling mountain, use a hanger that has obtained UL security approval to prevent the unit from falling down.
- Regularly check the stability and strength of the camera installation.

3.2.5 Tilting the Panoramic Lens

The panoramic lens supports three tilt positions: Up / Normal / Down

- When the camera is installed at a height above 2 meters, it is recommended to adjust the angle of the lens.
- Upright Installation: Adjust to the [Down] position.
- Inverted Installation: Adjust to the [Up] position.
- After adjusting the tilt angle, please go to [Tracking] > [Lens Tilt Direction] and select the corresponding value in the web interface.



*For inverted installation, please enable the mirror/ flip function.

3.2.6 Installing the camera on the desk Place the camera on a flat desk to ensure normal operation.



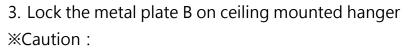
3.2.7 Mounting the camera to the ceiling

- (A) Prepare the following items:
 - Accessories in the box (metal plates A, B, M3 screw silver x 8, black x 2)
 - 4x screws for locking the ceiling mounted hanger
 - Drilling, screwdriver and ladder

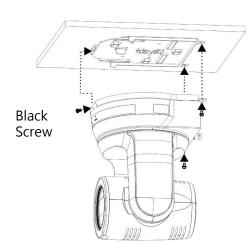


■ For dimensions of the camera and metal plate, please refer to <u>Chapter 7</u> Addendum

- (B) Installation steps
 - 1. Fix the metal plate A to the camera base with
 - 2. 4x M3 silver screws



- Please use a hanger that has obtained UL security approval.
- Please ensure space for cable access.
- 4. Combine metal plate A and metal plate B
 - (1) Push metal plate A up to the ceiling and then to the right to latch onto metal plate B
 - (2) Then secure with 2x M3 silver screws and 1x M3 black screw



3.2.1 How to remove

- 1. Remove the connecting cables from the camera
- 2. Loosen the three screws that fix the metal plates A and B and push to the left to remove the camera

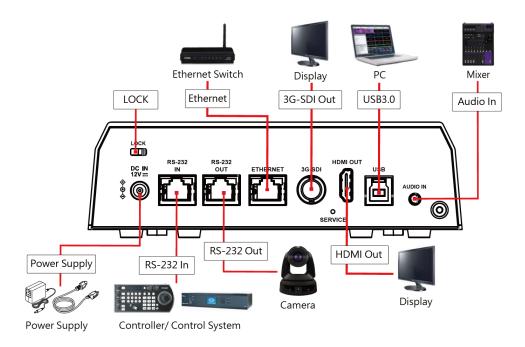


3. Remove the three screws



3.3 Connection

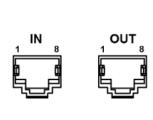
3.3.1 Connecting devices



Note Ethernet port supports PoE+ (IEEE802.3at)

3.3.2 RS-232 Pin Definition

Note Daisy Chain for up to 7 connected cameras

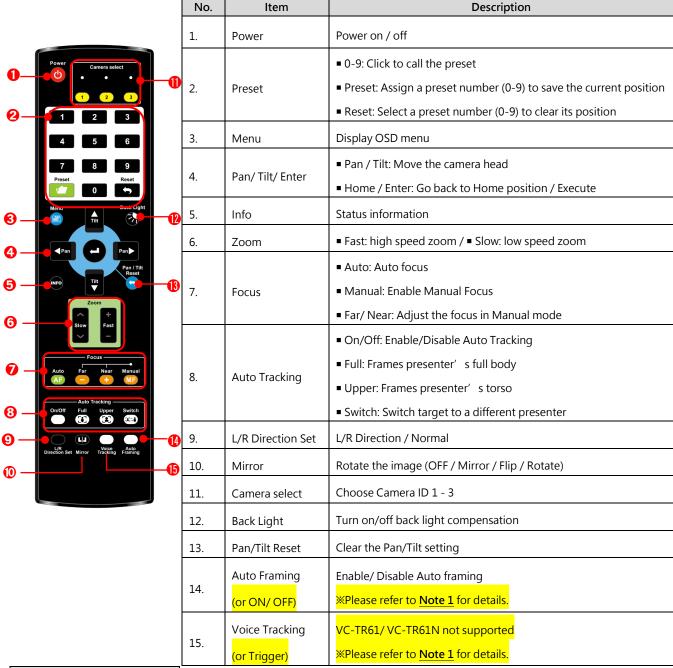


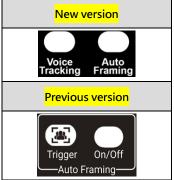
Pin No.	IN	OUT
1	NA	NA
2	NA	NA
3	GND	GND
4	TX	RX
5	RX	TX
6	DTR	DSR
7	NA	NA
8	NA	NA



Chapter 4 Remote Control and Setting Menu

4.1 Remote control





XNote 1: The labeling of buttons #14/#15 may vary depending on the remote control version.

Please refer to the image on the left for details.

(The labeling differs, but the functions are the same.)

#14 Auto Framing = Auto Framing On/Off

#15 [Voice Tracking] or [Trigger]:

- When used with a camera that supports voice tracking: on/ off the voice tracking function.
- When used with a camera that does not support voice tracking:
 - Single-lens: Auto framing will reset to wide angle and reframe automatically.
 - Dual-lens: No corresponding action.

**Dual-lens cameras feature a built-in wide-angle lens for improved framing, eliminating the need for manual calibration.



4.2 Setting Menu

Press [MENU] on the remote control to call the on-screen menu. Default is indicated in bold.

Layer 1	Layer 2	Layer 3	Description
	Mode	Full Auto/ Shutter Priority/ Iris Priority/ Manual/ White Board	Exposure mode setting
	Exposure Comp	On/ Off	Turn on/off Exposure Compensation
	Exposure Comp. Level	-6- <u>C-</u> 4	Adjustable after Exposure Comp. s activated
	Spot Light	On/ Off	Turn on/ off Spot Light
	Spot Light Position	X(0-6)Y(0-4)	Adjustable after Spot Light is activated
Exposure	Gain Limit	8- <u>30</u> dB	Max. limit value of electron gain
	WDR	Off/ 1/ 2/ 3	WDR settings
	Anti-Flicker	50Hz/ 60Hz/ <u>Off</u>	Activate the anti-flicker function to eliminate flicker from lighting.
	Shutter Speed	1/10000-1/25	Adjustable when the Exposure mode is set to Shutter Priority or Manual
	Iris Level	F1.8- <u>C</u> -F11/ Off	Adjustable when the Exposure mode is set to IRIS Priority or Manual
	Gain Level	<u>0</u> ~45dB	Adjustable when the Exposure mode is set to Manual
White Balance	Mode	1.Auto 2.Indoor 3.Outdoor 4.One Push WB 5.ATW 6.Manual 7.Sodium Lamp	Select the color temperature 1. 4000k - 7000k 2. 3200k 3. 5800k 4. 1700k - 10000k 5. 1700k - 10000k 6. Manual 7. 2800k
	One Push Trigger	ENTER	One push trigger
	Manual Red	0- <u>C</u> -128	Adjustable when the white balance mode is set to Manual
	Manual Blue	0- <u>C</u> -128	Adjustable when the white balance mode is set to Manual



Layer 1	Layer 2	Layer 3	Description
Tracking	Туре	Auto Tracking/ Auto Framing	
	3D NR	Off / Low/ <u>Typ</u> / Max	3D noise reduction
	Image Mode	Default/ Custom	Users can customize the selected image mode
	Gamma	0- <u>C</u> -3	Adjustable when Image Mode set to Custom
Picture	Brightness	0- <u>C</u> -25	Adjustable when Image Mode set to Custom
	Contrast	0- <u>C</u> -25	Adjustable when Image Mode set to Custom
	Saturation	0- <u>C</u> -25	Adjustable when Image Mode set to Custom
	Sharpness	0- <u>C</u> -11	
	Pan/Tilt Limit	On/ Off	On/ Off Set angle limit
	Pan Right Limit	0- <u>170</u>	Limit the panning angle (right side)
	Pan Left Limit	<u>-170</u> -0	Limit the panning angle (left side)
	Tilt UP Limit	0- <u>90</u>	Limit the tilt angle (up)
	Tilt Down Limit	<u>-30</u> -0	Limit the tilt angle (down)
	Pan Flip	On/ Off	Reverses the Pan direction
	Tilt Flip	On/ Off	Reverses the Tilt direction
Pan Tilt Zoom	Preset Speed	5/ 25/ 50/ 80/ <u>120</u> deg/sec	Set the robotic and zoom speed of the camera
	PTZ Speed Comp	On/ Off	Enable the zoom speed independent from the robotic speed
	D-Zoom Mode	On/ Off	Set the digital zoom limit
	Limit	<u>2x</u> -8x	Digital zoom not supported with: 4K resolution 1080P/ 720P, Stream/ UVC outputs
D-Effect	Mirror	Off/ Mirror/ Flip/	Activate image rotation and/or
Auto Focus	AF Sensitivity	Mirror+Flip Low/ <u>Middle</u> / High	mirroring Changes the sensitivity of the
			auto-focus



Layer 1	Layer 2	Layer 3	Description
	AF Frame	Center Area/ All Area	Changes the focusing zone to the selected mode Central area: focusing will be performed based on the center Full Frame: focusing will be calculated based on the full screen
	Zoom tracking	On/ Off	Focus mode during lens zooming (It can be set to Manual Focus (MF) mode)
	PTZ Assist	On/ <u>Off</u>	Available when Focus is in Manual Mode Note PTZ Assist is triggered only when the camera has moved in any axis. It will not dynamically respond to changes in the scene.
	DHCP	On/ Off	Enable/Disable dynamic host configuration
Ethernet	IP Address	192.168.100.100	
	Subnet mask	255.255.255.0	Configurable when DHCP is set to Off
	Gateway	192.168.100.254	. 011
	Audio In	Line In	3.5m Line In
	Audio Enable	On/ Off	Turn on/off audio output
	Audio Volume	0- <u>C</u> -10	Volume Setting
Audio	Audio Delay	On/ Off	When the audio is not synchronized with the video, enable this function to set an audio delay time
	Audio Delay Time(ms)	<u>-10</u> ~-500ms	Set audio delay time
	Encode Sample Rate	48 (AAC)	Set the encode type and sample rate
	Prompt	On/ Off	Turn on/off the prompt information on the display
System	IR Receive	On/ Off	Turn On/off the infrared reception. When off, the remote control will not be able to control the camera. Re-start the camera to re-activate.



Layer 1	Layer 2	Layer 3	Description
	IR Select	<u>1</u> / 2/ 3	Pair the remote controller with the camera.
	Tally Lamp	On/ Off	Enables the camera's tally lamp.
	Tally CMMD Mode	Normal/ <u>Link</u>	Set whether the tally lamp is linked with RS232 commands. Normal (Not linked): The tally lamp and mode are set separately. When the tally lamp is on but the default mode is off, an additional command is required to set the indicator light mode When the tally lamp is off, setting the mode will not trigger the indicator light Link: When the tally lamp is on, the default mode is a red light When the tally lamp is off, setting the mode will turn on the tally lamp.
	Tracking Led Status	On/ <u>Off</u>	When enabled, LED on the front panel will flash green while the camera is tracking.
	Language	English/ 繁中/ 简中	-
	Initial Position	Last MEM/ 1st Preset	After turning on the camera, you can select the lens to be returned to <u>Last MEM</u> or 1st Preset Note 1st Preset = Preset 0
	Motionless Preset	On/ Off	The image will freeze when Preset is executed. Freeze will be released after the Preset move is completed
	Privacy Mode	On/ Off	When the camera is turned off via the remote control or software, the lens will automatically turn to the bottom right to ensure the user's privacy
	Protocol	VISCA	Supports VISCA protocol



Layer 1	Layer 2	Layer 3	Description
	Baud Rate	9600 /38400	Transmission speed of the control signal
	VISCA Address	0.7	The camera ID address can be
	Visertriadiess	<u>0</u> -7	manually assigned.
		2160P 59.94/50/29.97/25	
	Output Mode	1080p 59.94/50/29.97/25	Set the output resolution
	Output Mode	720p 59.94/50/29.97/25	Set the output resolution
		1080i 59.94/50	
	Factory Reset	On/ Off	Engage factory default settings
Status			Display the current settings
			information



Chapter 5 Network setting and Web interface

5.1 Connecting Camera to Network

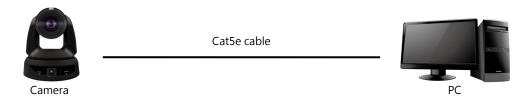
5.1.1 Connection

Two common connection methods are shown below

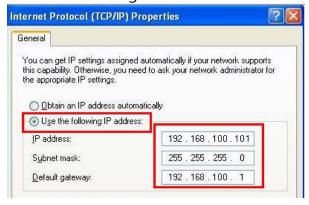
1. Connect via switch or router



- 2. Connect directly via an Ethernet cable. The computer's IP address must match the network segment used by the camera.
 - E.g. The camera's default IP address is 192.168.100.100. The computer's IP address should be set to the same segment, such as 192.168.100.101.

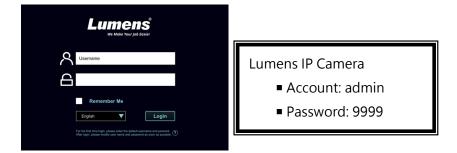


■ Modify the PC's network settings



- 5.1.2 Use a Browser to view Images
 - Open the browser, and enter the IP address of the camera in the address bar E.g.: http://192.168.100.100 (default IP address)
 - Enter the Username and Password
 - Note Please refer to 5.2.12 System-User to change the default password.





5.1.3 Use an RTSP Player to View Live Images

Free software can be used for RTSP connection, such as VLC, Quick Time or PotPlayer.

RTSP connection address formats are as follows:

- RTSP Stream 1 =>rtsp://camera IP:8554/hevc rtsp://camera IP:8557/h264
- RTSP Stream 2 => rtsp://camera IP:8556/h264
- Panoramic Camera Output => rtsp://camera IP:8553/h264

If password authentication is enabled, the RTSP connection address is as follows:

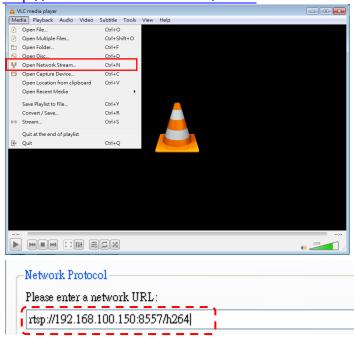
- rtsp://Username:Password@VC IP address:8557/stream1(or stream2)
- To enable password authentication function, please refer to 5.2.10

System-Network

Example:

Open the VLC software, click [Open Network Streaming], and enter the URL:

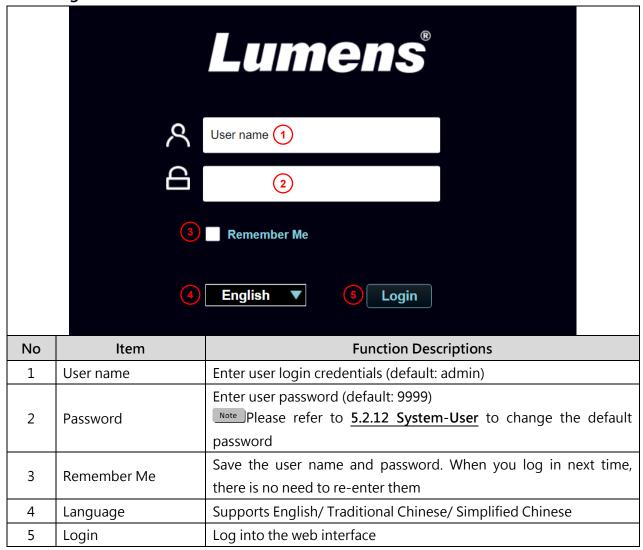
rtsp://192.168.100.150:8557/h264





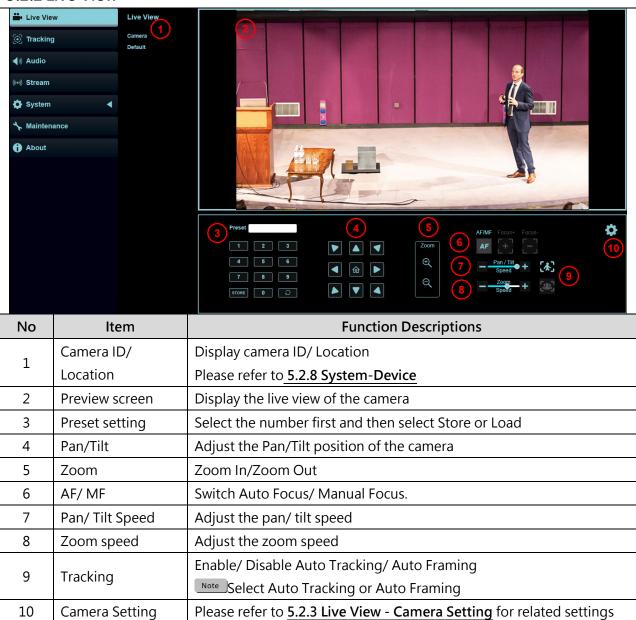
5.2 Web interface functions

5.2.1 Login



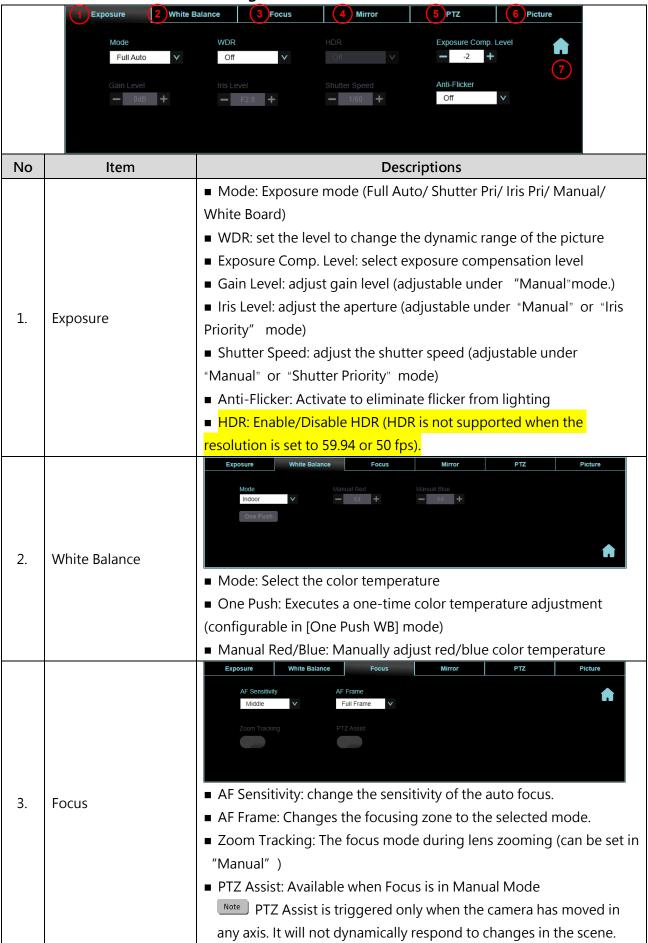


5.2.2 Live View

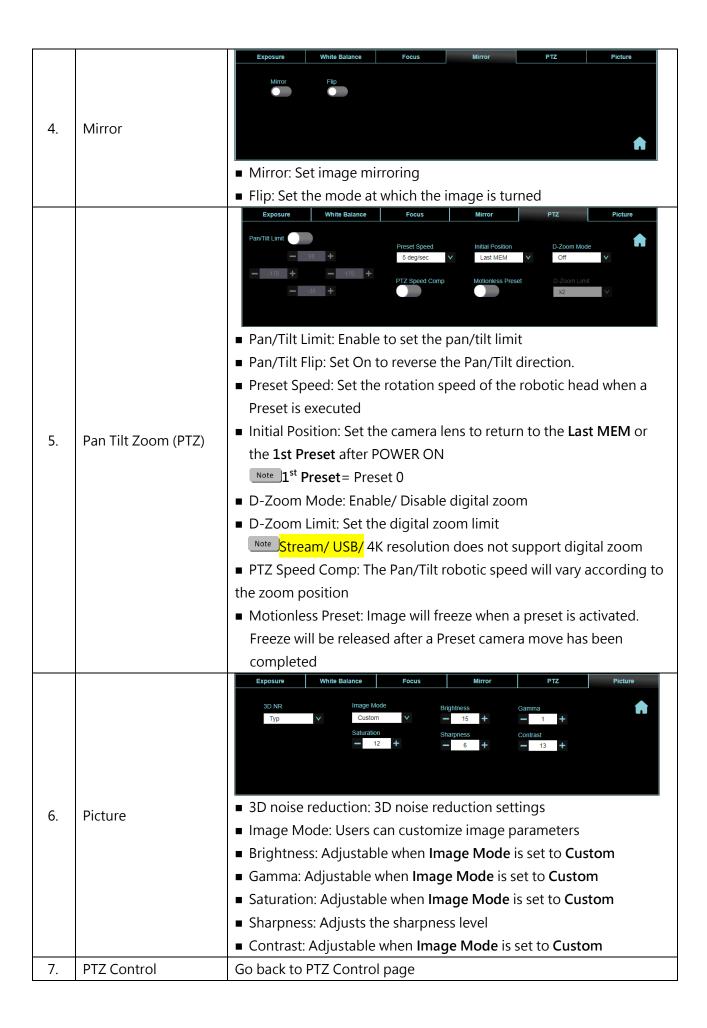




5.2.3 Live View - Camera Setting

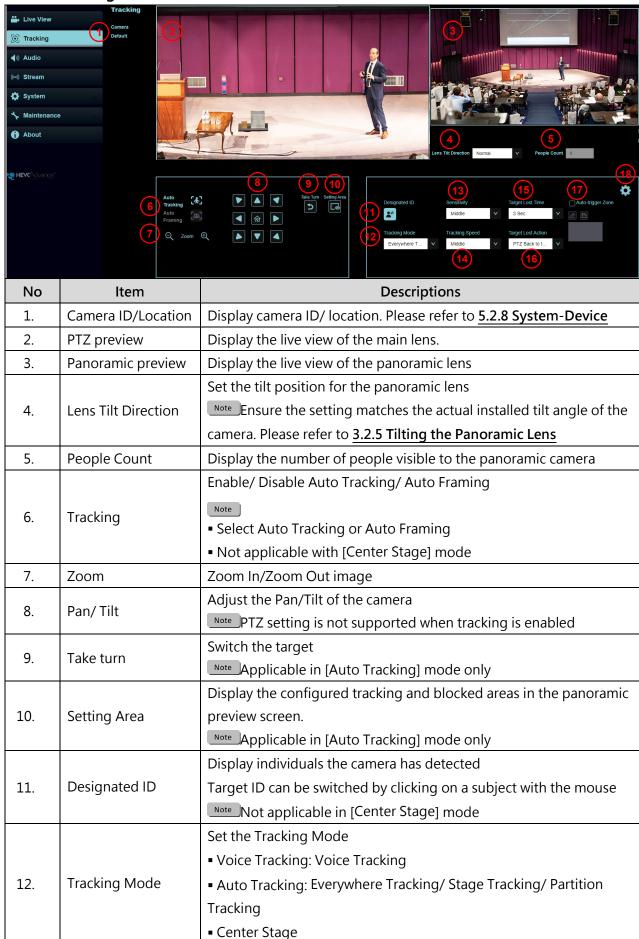








5.2.4 Tracking





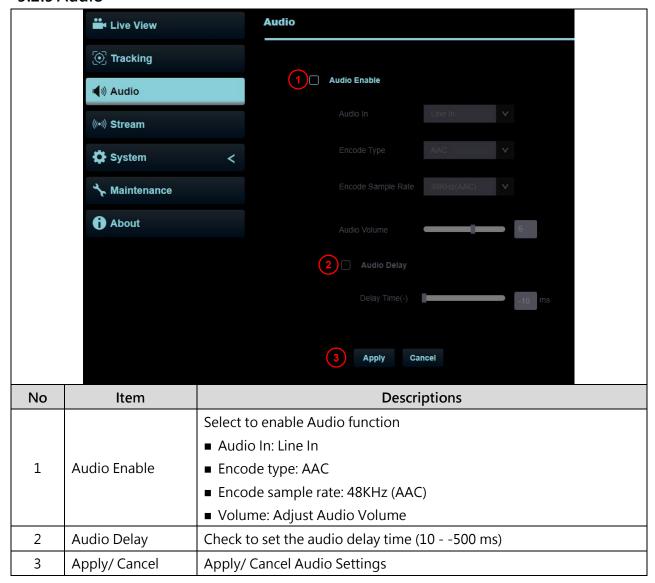
		■ Auto Framing: Auto Framing/ Partition Framing
13.	Sensitivity	Set tracking sensitivity
14.	Tracking Speed	Set tracking speed
15.	Target Lost Time	Set a delay to take action after a tracking target is lost
16.	Target Lost Action	Set the action after a tracking target is lost
17.	Auto-trigger zone	After a person enters the area for 3 seconds, tracking/ framing will be triggered Note [Tracking Mode] > [Center Stage] is not supported. Enabling Auto Tracking/ Auto Framing will disable the [Auto-trigger zone] function Stopping Auto Tracking/ Auto Framing will reactivate the [Auto-trigger zone] function
18.	Tracking Mode Setting	Advanced settings for tracking
18.1	Everywhere tracking	Body Size Full Head Position Middle Body Size: Set Full/ Half Body Head Position: Set the head position of the person in the screen Block Area: Click the left mouse button to draw a frame on the panoramic view to set a blocked area Tracking Zone: Click the left mouse button to draw a frame on the panoramic view to set a designated tracking area
18.2	Stage Tracking	 Stage Tracking Block Area Stage Zone



Set Partition Tracking. Up to 4 zones can be set When a person enters the specific zone, the camera switches to the partition. Tracking will not be performed within the zone. Outside the zone, everywhere tracking will be active. Partition Tracking Partition Edit РЗ P4 18.3 Partition Tracking Done Head Position: Set the head position of the person on the screen Block Area: Click into the Edit mode, frame by holding the left mouse button and set the blocked area Block Area: Click the left mouse button to draw a frame on the panoramic view to set a blocked area Partition Edit: Edit and save partition positions Auto Framing Block Area 18.4 **Auto Framing** Done Block Area: Click to enter the Edit mode. Frame by holding the left mouse button and set the block area Partition Framing Partition Edit 🗷 Block Area P2 Р3 Р4 18.5 **Partition Framing** Done Block Area: Click the left mouse button to draw a frame on the panoramic view to set a block area Partition Edit: Edit and save partition positions



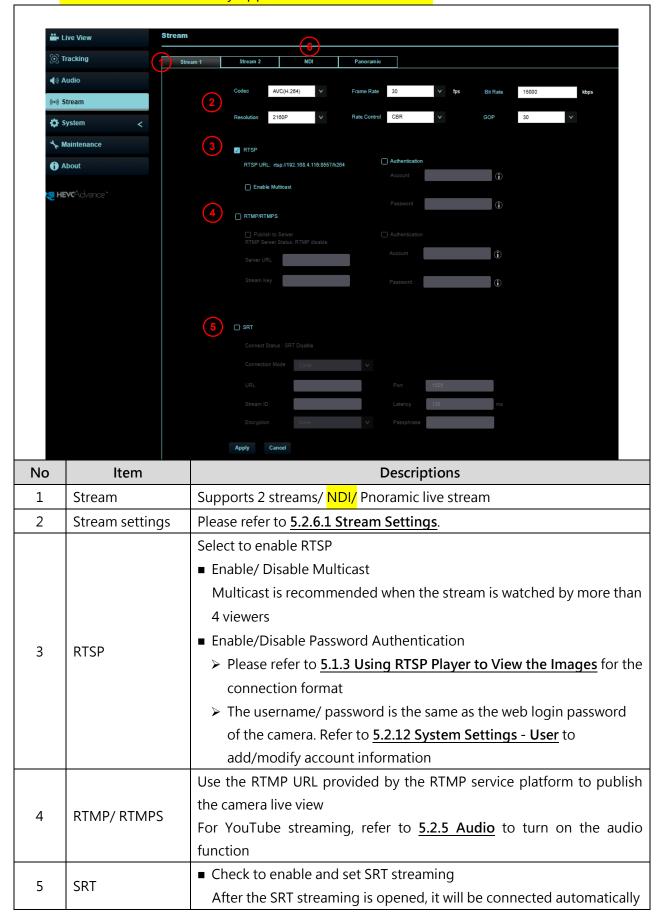
5.2.5 Audio





5.2.6 Stream

NDI function is only applicable to the VC-TR61N.



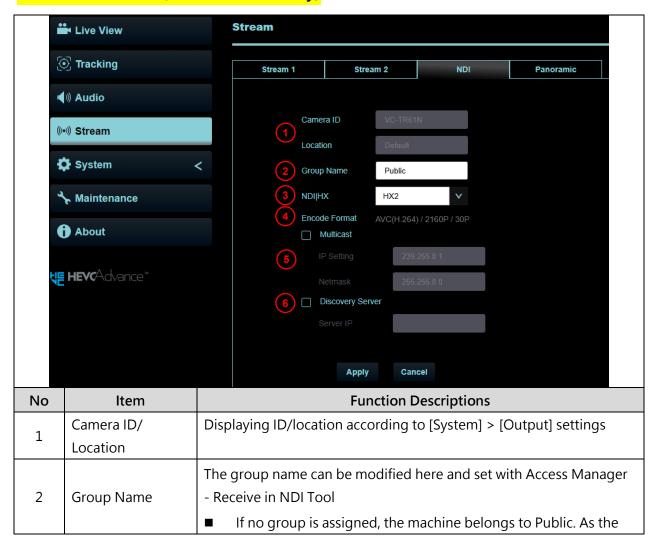


		upon camera startup	
■ The port number must be set in t		■ The port number must be set in the range above 1024 with a	
		maximum value of 65535	
		Note The following ports are used by the camera. Setting the ports	
	may result in connection issues.		
	8554, 8556, 8557, 8080, 9090, 1935		
		■ Latency can be set between 20-8000 microseconds. (Default is 120	
		microseconds	
6	<mark>NDI</mark>	The NDI function is only applicable to the VC-TR61N.	

5.2.6.1 Streaming settings

Fu	nction	Stream 1	Stream 2
Encod	de Format	HEVC/ H.264	H.264
Res	solution	4K/ 1080p/ 720p	720p
D:1	Bit rate	2,000-20,000	2,000-20,000
Bit rate	Default	7,000	3,000
Rate	Control	CBR / VBR	
Frame Rate/	Group of Pictures	Setting according to the supported resolution	

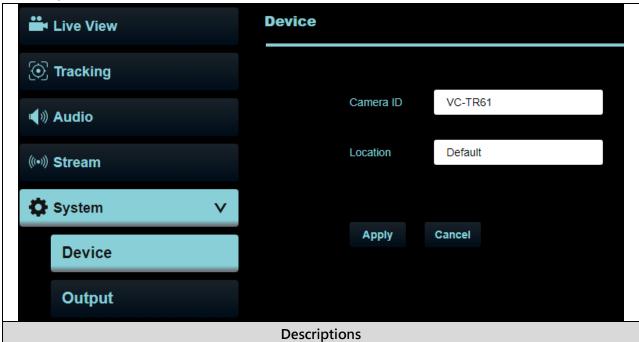
5.2.7 Stream – NDI (For VC-TR61N only)





		_
		default of Access Manager includes Public, Studio Monitor can
		discover this machine.
		■ If a group is assigned, but this group is not added into Access
		Manager, Studio Monitor cannot discover this machine.
		■ If a group is assigned and this group is added into Access
		Manager, Studio Monitor can discover this machine.
		The name can contain commas (,) to distinguish different groups
		Example: "default, 123, abc" means this machine belongs to three groups
		at the same time (default/ 123/ abc)
3	NDI HX	HX2/ HX3 is supported
4	Multicast	Multicast Settings.
		It is recommended to enable this feature when there are more than 4
		viewers online simultaneous
5	Discovery Server	Check to enter the Server IP address
6	Apply	After the setting has been modified, click this button to apply the
		settings

5.2.8 System - Device



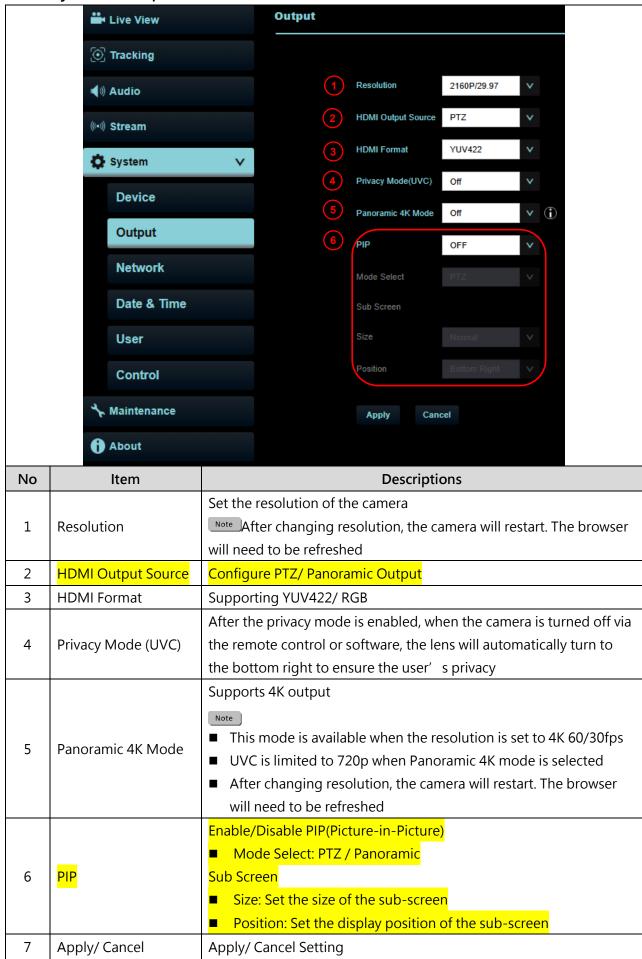
Edit camera ID/ Location

- Camera ID: Supports 1 32 characters
- Location: Supports 1 30 characters
- Supports English, Chinese and numbers. Special symbols such as "/" and "space" cannot be used

Note Modifying this field will also update the ONVIF device name/location.



5.2.9 System - Output

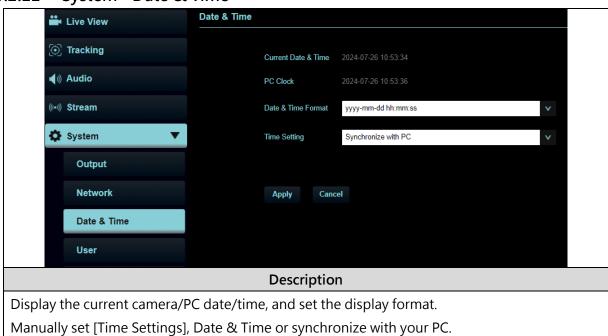




5.2.10 System - Network

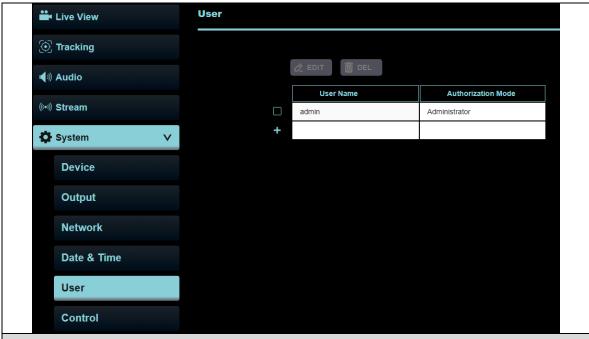


5.2.11 System - Date & Time





5.2.12 System - User



Description

Add/Modify/Delete user account

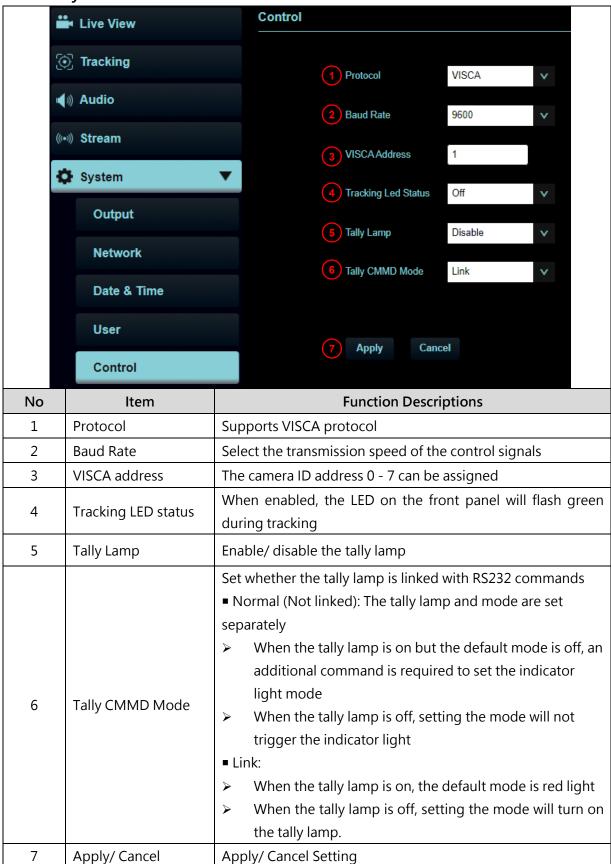
- User name and password supports 4 32 characters
- Use uppercase, lowercase letters or numbers. Special symbols cannot be used
- Account permissions:

Admin	Operator	Viewer
٧	V	V
٧	V	Х
V	Х	Х
	Admin V V V	Admin Operator V V V V V X

Performing a factory reset will clear all user data.

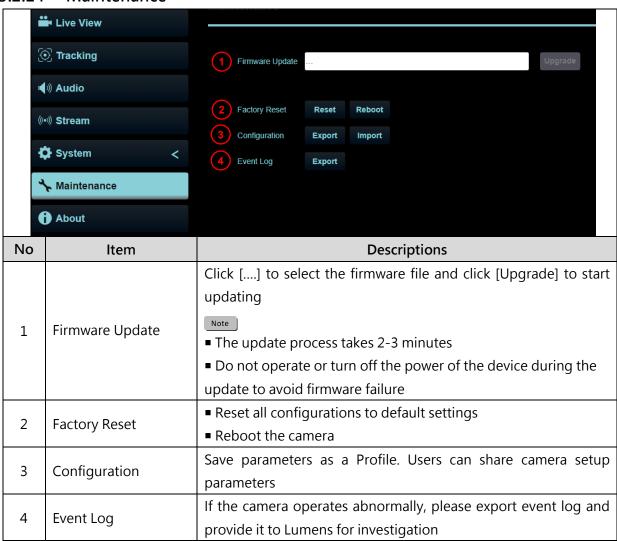


5.2.13 System - Control





5.2.14 Maintenance



5.2.15 About



Display the firmware version, serial number, and other related information. For technical support, please scan the QR code at the bottom right.

Chapter 6 Troubleshooting

This chapter describes problems you may encounter while using VC camera. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurs, please contact your local distributor or Lumens.

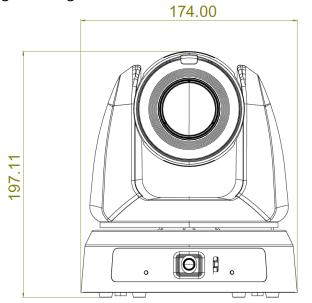
No.	Problems	Solutions
		1. Make sure you have plugged in the power cord
1.	No power to the device	2. When using a PoE connection, ensure that the power supply
		supports PoE+ (IEEE802.3at)
		1. Check the power supply or PoE supply functions
		2. Confirm whether the camera resolution can be used with the
2.	There is no image output	connected display
	from camera	 If the camera is set to 4K resolution, output, confirm the
		display supports 4K output
		3. Replace the cable and make sure it's not faulty
3.	Camera image is severely	Use 60/50 fps rather than 25/30 fps signals
	delayed	
_		1. Confirm the connection is correct (RS-232 In/ Out)
4.	RS-232 cannot be controlled	2. Please make sure the Baud rate setting is the same as the control device
		Please make sure that [System] > [Device] > [Camera ID]/
5.	ONVIF software cannot	[Location] in the web page uses only English letters or
	discover the camera	numbers. The ONVIF software cannot find the camera if you
		use special symbols or space
	The camera does not save	Please make sure if the [Initial Position] is set to [Last MEM]
6.		from the setting menu or web page
6.	relevant parameters (PTZ,	OSD Menu: [System] > [Initial Position]
	AWB) after reboot	■ Web page: [Live View] > [Setting] > [PTZ] > [Initial Position]
7.	How to log into the webpage	Please contact your local distributor or Lumens technical
	if you have forgotten the	support
	password	Support
8.	Admin password when	Please contact your local distributor or Lumens technical
ō.	deleting the User Account	support

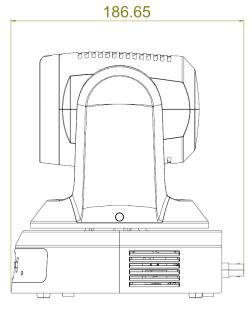


Chapter 7 Addendum

7.2 Camera Size

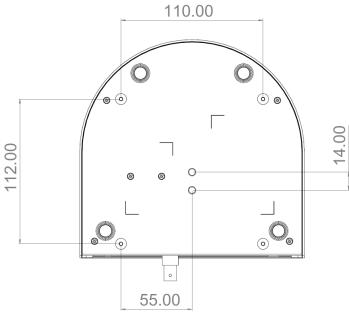
- Length x Width x Height: 174 x 186.65x 197.11mm
- Weight: 2.2Kg





7.3 Dimensions of the base

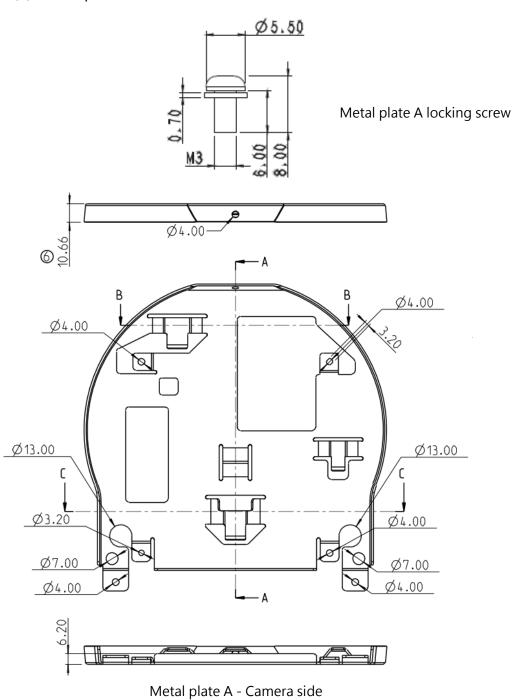
The camera can be mounted on a 1/4" -20 UNC PTZ tripod head by using the locking holes on the bottom.



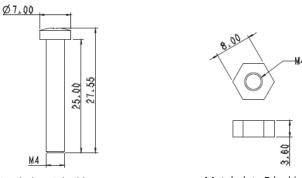
7.4 Metal Plate diagram



(1) Metal plate A - camera side

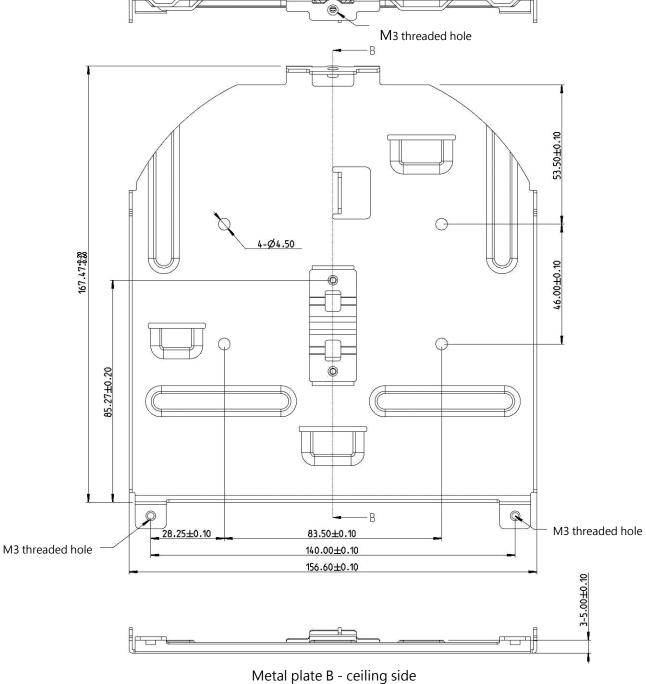


(2) Metal plate B - ceiling side



Metal plate B locking screw

Metal plate B locking bolt



Chapter 8 Safety Instructions

Always follow these safety instructions when setting up and using PTZ Video Camera:

1 Operation

- 1.1 Please use the product in the recommended operating environment, away from water or source of heat
- 1.2 Do not place the product on a tilted position or unstable trolley, stand or table.
- 1.3 Please clean the dust on the power plug prior to usage. Do not insert the product's power plug into a multiplug to prevent sparks or a fire.
- 1.4 Do not block the slots and openings in the case of the product. They provide ventilation and prevent the product from overheating.
- 1.5 Do not open or remove covers, otherwise it may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
- 1.6 Unplug the product from the wall outlet and refer servicing to licensed service personnel when the following situations happen:
 - If the power cords are damaged or frayed.
 - If liquid is spilled into the product or the product has been exposed to rain or water.

2 Installation

2.1 For security considerations, please make sure the standard hanging rack you bought is in line with UL or CE safety approbations and installed by technician personnel approved by agents.

3 Storage

- 3.1 Do not place the product where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- 3.2 Unplug the product during thunderstorms or if it is not going to be used for an extended period.
- 3.3 Do not place the product or accessories on top of vibrating equipment or heated objects.

4 Cleaning

4.1 Disconnect all the cables prior to cleaning and wipe the surface with a dry cloth. Do not use alcohol or volatile solvents for cleaning.

■ Precautions



This symbol indicates that this equipment may contain dangerous voltage which could cause electric shock. Do not remove the cover (or back). No user-serviceable parts inside. Refer servicing to licensed service personnel.



WARNING

This symbol indicates that there are important operating and maintenance instructions in this User Manual with this unit.

Battery Warning (for products or accessories with batteries)

General Safety Warnings:

- Do not heat or dispose of the battery in fire, as it may explode or leak.
- Avoid short-circuiting: Do not connect the positive and negative terminals directly or use metallic objects to connect them.
- Do not disassemble, crush, puncture, or modify the battery.
- Do not immerse the battery in water or any other liquids.

Usage and Storage Warnings:

- Do not store the battery in high-temperature environments (above 60°C) or in areas with high humidity.
- Keep away from direct sunlight and heat sources.
- If not in use for a long period, remove the battery and store it in a cool, dry place.

Disposal and Recycling Warnings:

- Do not dispose of the battery in household waste; follow local regulations for proper disposal and recycling.
- If leakage occurs, avoid contact with the leaked substance and clean the affected area immediately.

Child Safety Warnings:

- This product contains a button battery. Ingestion of a button battery can cause severe internal burns within 2 hours and may result in death.
- If a battery is swallowed or if internal battery material is contacted, seek medical attention immediately.
- Store batteries (whether new or used) in a place that is out of reach of children.
- If the battery compartment does not close securely, stop using the product and keep it away from children.

■ FCC Warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules.



These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

Notice:

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IC Warning

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

Cet appareil numerique respecte les limites de bruits radioelectriques applicables aux appareils numeriques de Classe A prescrites dans la norme sur le material brouilleur: "Appareils Numeriques," NMB-003 edictee par l'Industrie.

■ EN55032 CE Warning

Operation of this equipment in a residential environment could cause radio interference.



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