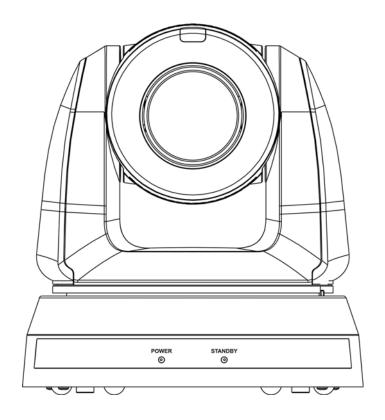
VC-A61P HD camera (PTZ Video Camera)

User Manual - English



[Important]

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

https://www.MyLumens.com/support



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Chapter 1 Safety Instructions

Always follow these safety instructions when using the product:

1 Operation

- 1.1 Please use the product in the recommended operating environment.
- 1.2 Do not place the product in tilted position.
- 1.3 Do not place the product on an unstable trolley, stand or table.
- 1.4 Do not use this product near water or source of heat.
- 1.5 Use attachments only as recommended.
- 1.6 Use the type of power source indicated on the product. If you are not sure of the type of power available, consult your distributor or local electricity company for advice.
- 1.7 Always take the following precautions when handling the plug. Failure to do so may result in sparks or fire:
 - Ensure the plug is free of dust before inserting it into a socket.
 - Ensure that the plug is inserted into the socket securely.
- 1.8 Do not overload wall sockets, extension cords or multi-way plug boards to avoid potential risks.
- 1.9 Do not block the slots and openings in the case of the product. They provide ventilation and prevent the product from overheating.
- 1.10 Except as specifically instructed in this User Manual, do not open or remove covers, otherwise it may expose you to electric shock and other hazards. Refer all servicing to licensed service personnel.
- 1.11 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 Never push objects of any kind through cabinet slots. Never allow liquid of any kind to spill into the product.
- 3.3 Unplug this product during thunderstorms or if it is not going to be used for an extended period.
- 3.4 Do not place this product or accessories on top of vibrating equipment or heated objects.

4 Cleaning

4.1 Unplug all the cables before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.

5 Remote control (if the accessories are equipped with remote control)

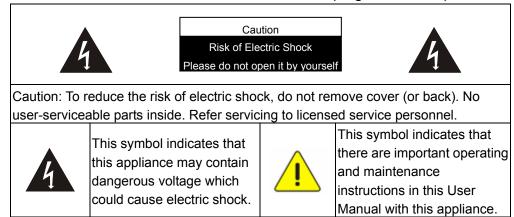
5.1 Using an incorrect battery type in the remote control may result in breakdown. Follow local instructions on how to dispose of used batteries.



■ Precautions

Warning: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

If the HD camera will not be used for an extended time, unplug it from the power socket.



■ FCC Warning

This HD Camera has been tested and found to comply with the limits for a Class A digital device, pursuant to Article 15-J of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

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 Radiation) Warning

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

Chapter 2 Package Contents

VC-A61P

Instruction for installation

Remote Control



Quick Installation Guide

Lumens

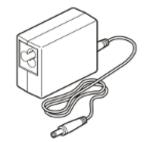
Power Cord

Power Adapter

RS-422 Connector



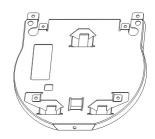
Appearance may vary depending on country/region

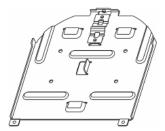


Metal Plate A

Metal Plate B

M3 Screws



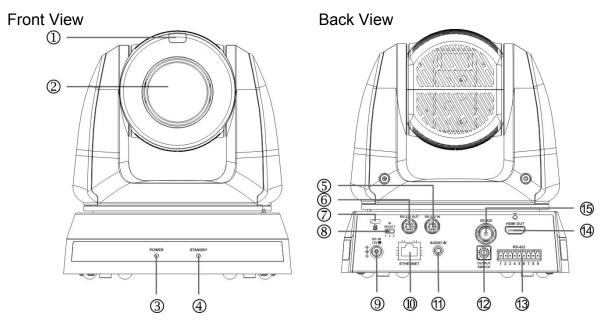




Silver x8 / Black x2

Chapter 3 Function Introduction

3.1 I/O functions Introduction



NO.	Item	Function Descriptions
1.	Tally indicator light	Display the tally light status of the camera
2.	Camera lens	30x HD camera lens
3.	Power LED indicator	Display the status of the camera
4.	Standby LED indicator	Display the status of the camera
5.	RS-232 input	RS-232 input port, at most 7 cameras can be connected in a serial connection
6.	RS-232 output	RS-232 output port, at most 7 cameras can be connected in a serial connection
7.	Kensington lock hole	Lock hole of safety lock
8.	IR SELECT	The remote control ID setting is only controlled after corresponding to the Camera Select on the remote control
9.	DC 12 V power Port	DC power supply connecting port
10.	Ethernet port	Network cable port supports routers or hubs of PoE+ (IEEE 802.3at) with power supply
11.	Audio input	Support Line In/Mic In
12.	OUTPUT Switch	Adjust the resolution setting. The default is 1080p/59.94
13.	RS-422 Port	RS-422 connecting port, at most 7 cameras can be connected in a serial connection
14.	HDMI output	HDMI output (Audio output supported)
15.	3G-SDI output	3G-SDI output(Audio output supported)



3.2 Description of LED indicator

Status	Power	Standby
Startup in progress (initialization)	Green light	Orange light
In use	Green light	No indicator
In standby mode	No indicator	Orange light

3.3 Tally Indicator Light Function Description

3.3.1 The tally indicator light function may be enabled through the control of RS-232 command. The setting method is as follows:

Tally Mode: 8x 01 7E 01 0A 01 0p FF

p = 0: OFF

p = 4: Red light (half-brightness)

p = 5: Red light (full-brightness)

p = 6: Green light (full-brightness)

p = 7: Orange light (full-brightness)



Chapter 4 Instruction for installation

4.1 Preparation before installation

Installation and connection of VC-A61P HD camera requires special skills. To install by yourself, please follow necessary steps, ensure steady and tight installation of the device, and pay attention to your safety to avoid any accident.

- 4.1.1 Ensure the safety of the installation environment. Please do not install the device on unstable ceiling or in a place where the device is in danger of falling to avoid any accident.
- 4.1.2 Please check whether accessories in the box are complete or not. Please contact the supplier for any shortage, and make sure to keep the accessories in the box intact.
- 4.1.3 Please choose a proper place for installation of camera in advance. Please determine an installation place according to the following requirements
 - 4.1.1.1 Confirm the position for the object to be captured.
 - 4.1.1.2 Confirm whether the camera is set at a proper distance from other light sources.

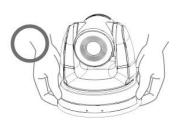
4.2 Instruction for installation

- 4.2.1 I would like to install camera on the desk
 - 4.2.1.1 Precautions for installation
 - ◆ Please install the machine on a flat desk
 - ◆ Do not grab the camera head by hand when handling the device
 - ◆ Do not rotate the camera head by hand, improper rotation may result in breakdown of the camera









4.2.1.2 Installation steps

- 1. Please adjust DIP switch at first prior to installation
- <Remark> Please refer to <u>Chapter 7 DIP Switch Setting</u> for the relevant descriptions on DIP switch.
- Place the camera on a flat desk directly to ensure the normal vertical and horizontal operation of the machine





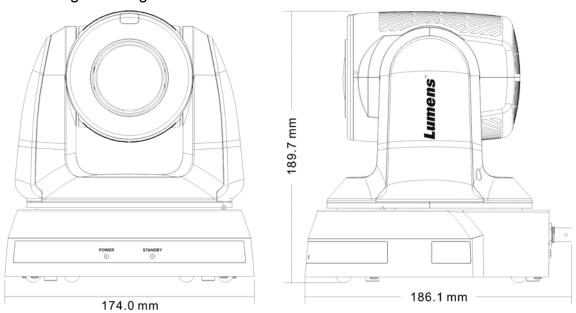
4.2.2 I would like to install the camera on the ceiling

- 4.2.2.1 Prepare for the parts and equipment required during the installation
 - 1. Accessories in the box (metal plates A, B, M3 screw silver x 8, black x 2)
 - 2. Screw for locking on ceiling mounted hanger x 4
 - 3. Drilling machine, screw driver, ladder

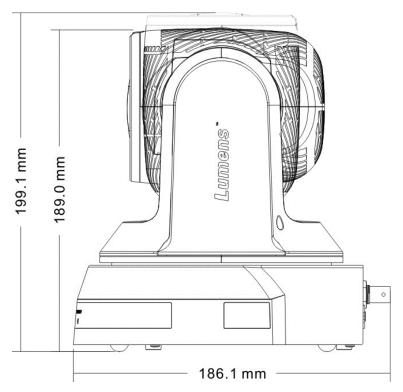
4.2.2.2 Camera Size

L x W x H : 174 x 186.1 x 189.7 mm

Weight: 2.0 Kg



4.2.2.3 Max. rotation dimension of camera

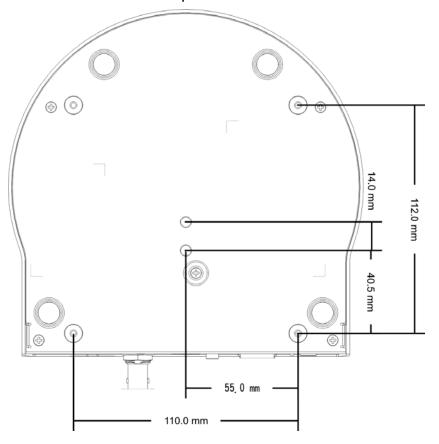




4.2.2.4 Size Diagram

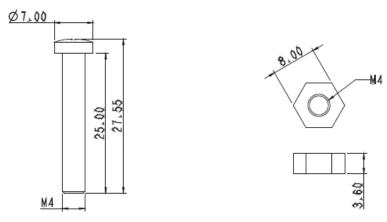
1. Bottom of machine

The camera can be mounted on a 1/4", -20 UNC PTZ tripod deck by using the lock holes on the bottom for the tripod



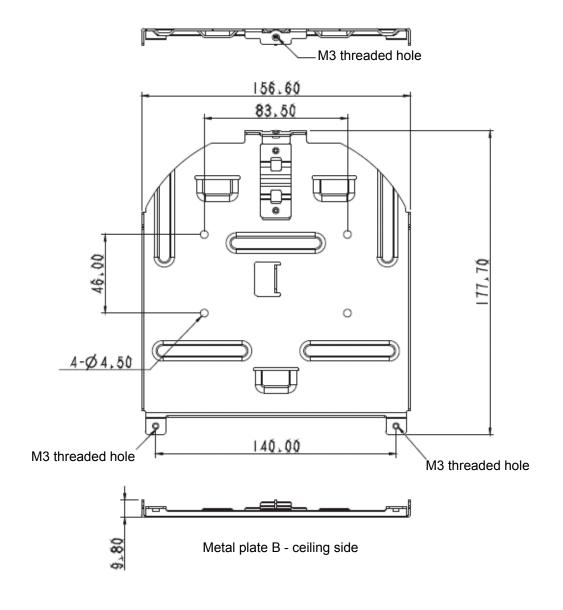
2. Metal Plate size diagram

■ Metal plate B - ceiling side

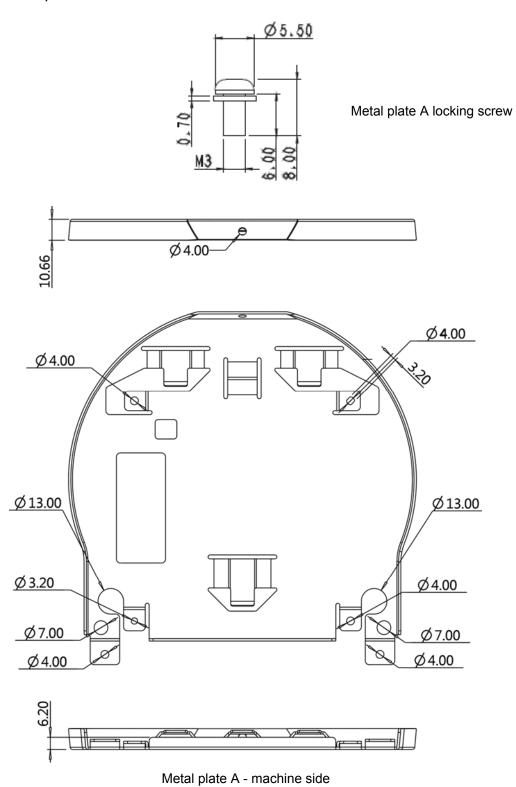


Metal plate B locking screw

Metal plate B locking bolt



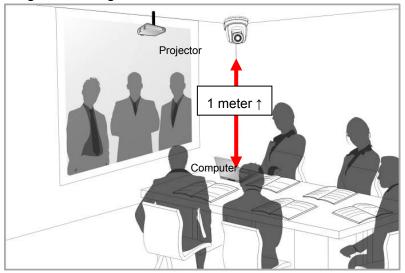
■ Metal plate A - machine side



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4.2.2.5 Precautions for installation

- 1. Before installation, please confirm the orientation of the machine relative to the object to be captured
- 2. It is recommended that the machine should be set at a distance of more than 1 meter away from the object to be captured. Please adjust for a best distance according to the magnification of the lens



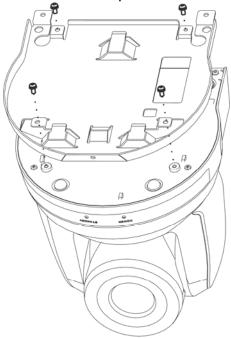
- 3. The machine (including metal plates) is weighed at about 2.5 kg. If it is to be installed on the ceiling, please use the hanger that has obtained UL security approval to prevent the machine from falling down.
- 4. Please check whether the camera is installed securely on a regular basis

4.2.2.6 Installation steps

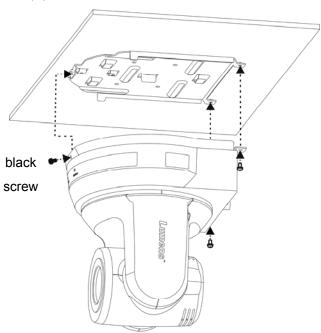
1. Please adjust resolution on DIP switch at first

<Remark> Please refer to <u>Chapter 7 DIP Switch Setting</u> for the relevant descriptions on DIP switch

2. Fix the metal plate A on the machine base with 4 M3 silver screws

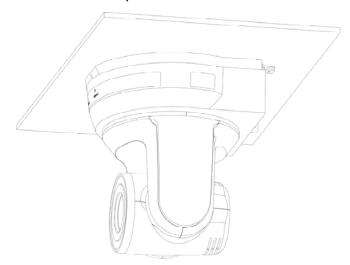


- 3. Lock the metal plate B on ceiling mounted hanger
- Caution: (1) Please use the hanger that has obtained UL security approval
 - (2) Please reserve the hole for the connecting wires of the camera
- 4. Combine the metal plate A and the metal plate B
 - (1) Push the metal plate A up to the ceiling and then to the right to latch the metal plate B
 - (2) And then secure with 2 M3 silver screws and 1 M3 black screw



4.2.2.7 How to remove

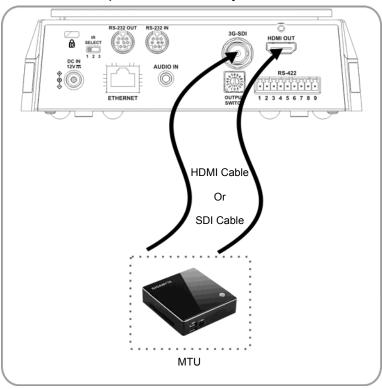
- 1. Remove the connecting wires from the camera
- 2. Uninstall the camera together with the ceiling, loosen the three screws that fix the metal plates A and B and push to the left to remove the machine



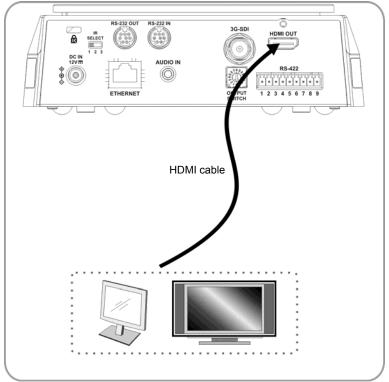
3. Then remove the screws on the hanger and the machine

4.3 Connecting devices

4.3.1 Connecting to PC (video conference)
SDI supports the audio output of 48 KHz only



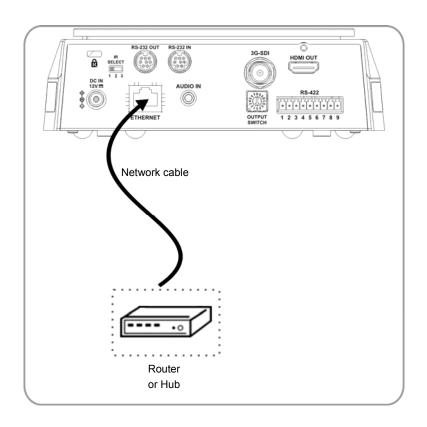
4.3.2 Connecting to an HDTV/computer monitor (HDMI)



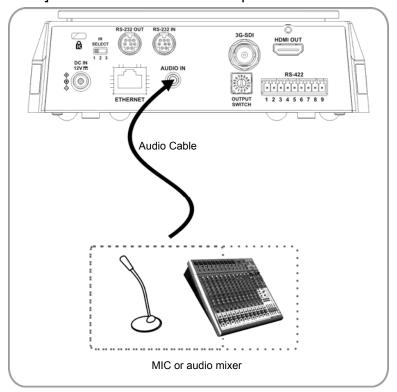


4.3.3 Connecting to Internet

For details of web page connection setting and description, please refer to Chapter 6
Network Function Settings Description



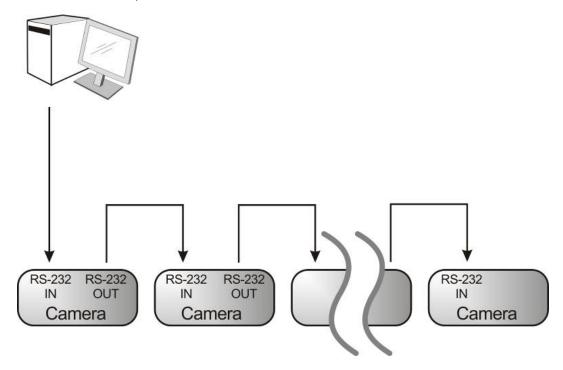
4.3.4 Connecting AUDIO IN Set the [Audio In] in the OSD to reflect the input device





4.3.5 Connecting RS-232

With RS-232 in/out, at most 7 Lumens cameras can be connected.



■ RS-232 pins definition instructions

▼ RS-232 IN Pins Instructions



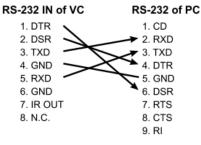
NO	Pins	Signals
1	DTR	Data Transmission Reade
2	DSR	Data Set Reade
3	TXD	Transmit Data
4	GND	Ground
5	RXD	Receive Data
6	GND	Ground
7	IR OUT	IR Commander Signal
8	N.C.	No Connection

▼ RS-232 OUT Pins Instructions

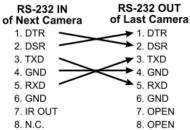


	NO	Pins	Signals
	1	DTR	Data Transmission Reade
\	2	DSR	Data Set Reade
	3	TXD	Transmit Data
/	4	GND	Ground
	5	RXD	Receive Data
	6	GND	Ground
	7	OPEN	Reserved
	8	OPEN	Reserved

▼ RS-232 Connection Instructions



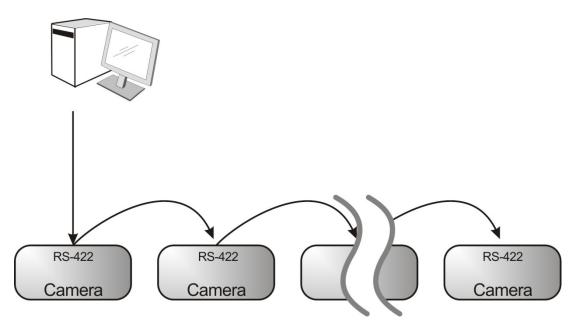
▼ RS-232 Connection Instructions



4.3.6 Connecting RS-422

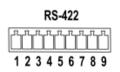
With RS-422, at most 7 Lumens cameras can be connected.

<Note> When RS-422 connection is being used, do not use RS-232 connection.



■ RS-422 pins definition instructions

▼ RS-422 Pins Instructions

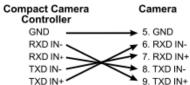


Pin NO.	Function
1	RXD OUT-
2	RXD OUT+
3	TXD OUT-
4	TXD OUT+
5	GND
6	RXD IN-
7	RXD IN+
8	TXD IN-
9	TXD IN+

▼ RS-422 Connection Instructions

-Applicable to

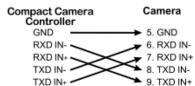
Lumens Compact Camera Controller

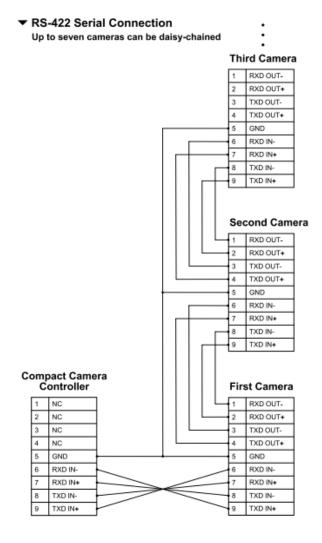


▼ RS-422 Connection Instructions

Applicable to

SONY Compact Camera Controller

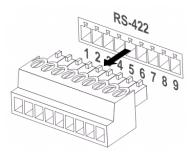




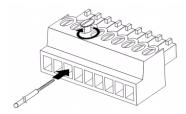


■ RS-422 connection instructions

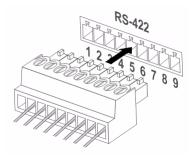
1. Hold the two sides of RS-422 connector and pull out in the direction shown by the arrow in the figure below



2. Peel off a section of copper wire (AWG Nos. 28 to 18) and insert it into the connector hole; then use flat screw driver to fix it



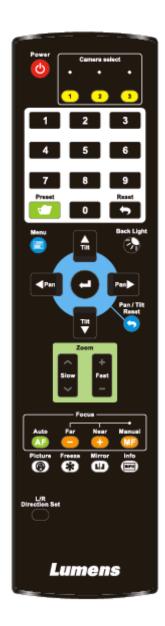
3. Insert the wired RS-422 connector back to the Camera. Now the connection is completed



Chapter 5 Remote Control and Setting Menu

5.1 Functions of remote control

<Remark> The below functions are listed alphabetically.



Item	Description
≺,≻,∧, ∀	Move the lens
Back Light	Turn on/off back light compensation
Camera select	Choose Camera ID 1 ~ 3
Focus- Manual / Far/Near	Turn on manual focus to adjust the focal length
Focus-Auto	Auto Focus
Freeze	Freeze the screen
Home-Enter	Go back to the main page / Execute
Info	Status information
L/R Direction Set	L/R Direction / Normal
Menu	Display OSD menu
Mirror	Rotate the image (OFF / Mirror / Flip / Rotate)
Pan/Tilt Reset	Clear the Pan / Tilt setting
Picture	Switch image effect (OFF / Neg / B&W)
Power	Power Switch
Preset	Appoint an ID (0 ~ 9) to save the current position data
Reset	Appoint an ID (0 ~ 9) to delete the current position data
Zoom-Fast	Adjust image size
Zoom-Slow	Fine-tune image size



5.2 Setting Menu

<Remark> Press [Menu] on the remote control to enter the setting menu; the bold underlined values in the following table are defaults.

Exposure	1st Level	2nd Level	3rd L		
Mode 2. Shutter Pri 3. Iris Pri 4. Manual Exposure Comp. On / Off AE Level	Major Items	Minor Items	Adjustment Values		Function Descriptions
Exposure Comp. Level -5 ~ € ~ 5		Mode	 Full Auto Shutter Pri Iris Pri 		Exposure mode setting
Exposure Comp. Level -5 ~ C ~ 5 after Exposure Comp. is activated		_	On / Off		AE Level
Spot Light Position X (0 ~ 6) Y (0 ~ 4) The value can be adjusted after Spot Light is activated	Exposure		-5 ~ C ~ 5		after <i>Exposure Comp.</i> is
Position X (0 ~ 6) Y (0 ~ 4) after Spot Light is activated		Spot Light	On / Off		
mode mode 1/10000 1/10000 1/5000 1/5000 1/3000 1/3000 1/2500 1/2500 1/2500 1/1000 1/1			X (0 ~ 6) Y	′ (0 ~ 4)	The value can be adjusted after Spot Light is activated
1/350 1/300 1/250 1/215 1/180 1/150 1/120 1/120			mode 1/10000 1/5000 1/3000 1/2500 1/2000 1/1500 1/1000 1/725 1/500 1/350 1/250 1/180	mode 1/10000 1/5000 1/3000 1/2500 1/1750 1/1250 1/1000 1/600 1/425 1/300 1/215 1/150	Adjustable when the Exposure mode is set to



 	1/90	1/75	
	<u>1/60</u>	<u>1/50</u>	
	1/30	1/25	
	1/15	1/12	
	1/8	1/6	
	1/4	1/3	
	1/2	1/2	
	1/1	1/1	
	1. F1.6		
	2. F2		
	3. F2.2		
	4. F2.7		
	5. F3.2		
	6. F3.8		
	7. F4.5		Adjustable when the
Iris Pri	8. F5.4		Adjustable when the
IIIS FII	9. F6.3		Exposure mode is set to Iris Pri
	10.F7.8		FII
	11.F9		
	12.F11		
	13.F13		
	14.F16		
	15.F18		
	16. Close		



		1 0 4B		
		1. <u>0 dB</u>		
		2. 3 dB		
		3. 6 dB 4. 9 dB		
		5. 12 dB		
		6. 15 dB		
	Manual Gain	7. 18 dB		Adjustable when the
		8. 21 dB		Exposure mode is set to
		9. 24 dB		Manual
		10.27 dB		
		11.30 dB		
		12.33 dB		
		13.36 dB		
		14.39 dB		
		15.42 dB		
		16.45 dB	50/05	
	Manual Speed	60/30	50/25	
		mode	mode	
		1/10000	1/10000	
		1/5000	1/5000	
		1/3000	1/3000	
		1/2500	1/2500	
		1/2000	1/1750	
		1/1500	1/1250	
l		1/1000	1/1000	
		1/725	1/600	Manually set the shutter
		1/500	1/425	
		1/350	1/300	
		1/250	1/215	
		1/180	1/150	
		1/120	1/120	
		1/100	1/100	
		1/90	1/75	
		<u>1/60</u>	<u>1/50</u>	
		1/30	1/25	
•		1/15	1/12	



		1/8	1/6	
		1/4	1/3	
		1/2	1/2	
		1/1	1/1	
		1. F1.6		
		2. F2		
		3. F2.2		
		4. F2.7		
		5. F3.2		
		6. F3.8		
		7. F4.5		
		8. F5.4		
	Manual Iris	9. F6.3		Manually set the iris
		10.F7.8		
		11.F9		
		12.F11		
	13.F13			
	14.F16			
		15.F18		
		16. Close		
		1. 9 dB		
		2. 12 dB		
		3. 15 dB		
		4. 18 dB		
Gain Limit	5. 21 dB			
	6. 24 dB		Mar Park all a distant	
	7. 27 dB		Max. limit value of electron	
	8. 30 dB		gain	
		9. 33 dB		
		10.36 dB		
		11.39 dB		
		12.42 dB		
		13.45 dB		



			Ţ
	Iris Limit	1. F3.2 2. F3.8 3. F4.5 4. F5.4 5. F6.3 6. F7.8 7. F9 8. F11	Max. limit value of iris
	WDR	1. <u>Off</u> 2. 1 3. 2 4. 3	
White Balance	Mode	 Auto Indoor Outdoor One Push WB ATW Manual Sodium Lamp 	Select the color temperature mode 1. 4000k ~ 7000k 2. 3200k 3. 5800k 4. 1700k ~ 10000k 5. 1700k ~ 10000k 6. Custom 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 <i>Manual</i>
Picture	Picture effect	 Off Neg B & W 	
	Sharpness	0 ~ <u>A</u> ~ 14	
	2D NR	1. Off 2. <u>1</u> 3. 2 4. 3	



	3D NR	 Off Low <u>Typ</u> Max 	
	Image Mode	1. <u>Default</u> 2. Custom	The user may customize his/her desired image mode
	Image Mode Load	<u>ENTER</u>	Adjustable when the <i>Image mode</i> is set to <i>Custom</i> . After selected, the corresponding <i>Image mode</i> parameters will be read and applied to <i>Custom</i>
	Brightness	0 ~ <u>A</u> ~ 15	Adjustable when the <i>Image</i> mode is set to <i>Custom</i>
	Hue	0 ~ <u>A</u> ~ 15	Adjustable when the <i>Image mode</i> is set to <i>Custom</i>
	Saturation	0 ~ <u>A</u> ~ 15	Adjustable when the <i>Image mode</i> is set to <i>Custom</i>
	Gamma	0 ~ <u>A</u> ~ 3	Adjustable when the <i>Image</i> mode is set to <i>Custom</i>
	Pan/Tilt Limit	On / <u>Off</u>	Turn on/off the angle limit setting
	Pan Right Limit	0 ~ <u>170</u>	Limit the right angle
Pan Tilt Zoom	Pan Left Limit	<u>-170</u> ~ 0	Limit the left angle
	Tilt UP Limit	0 ~ <u>90</u>	Limit the upward angle
	Tilt Down Limit	<u>-30</u> ~ 0	Limit the downward angle
	Pan Flip	On / <u>Off</u>	Activate the reverse Pan command
	Tilt Flip	On / <u>Off</u>	Activate the reverse Tilt command



		1	1
		1. 5 deg/sec	
		2. 25 deg/sec	
		3. 50 deg/sec	
	Proset Speed	4. 80 deg/sec	Set the rotation speed of the cradle head when Preset is
	Preset Speed	5. 120 deg/sec	executed
		6. <u>160 deg/sec</u>	
		7. 200 deg/sec	
		8. 300 deg/sec	
	PTZ Speed		Set the Pan/Tilt moving
	Comp	On / <u>Off</u>	speed to vary from the zoom
	Comp		position
		1. <u>Off</u>	
D-Effect	Mirror	2. Mirror	Set the mode at which the
D-Lifect		3. Flip	image is turned
		4. Mirror + Flip	
	AF Sensitivity	1. Low	For AF triggering speed, the
		2. Middle	higher the speed is, the
		3. High	faster AF is triggered
Auto Focus	AF Frame	1. Center 2. Full Frame 3. <u>Auto</u>	AF frame setting, when central area was set as AF frame, focusing will be on the center of the screen. When Full Frame was set as AF frame, focusing will be calculated based on the full screen
	PTZ Assist	On / Off	Turn on the auto focus function in Manual
Ethernet	DHCP	<u>On</u> / Off	Enable/Disable DHCP setting using left and right arrow keys and press [ENTER] to apply setting.
	IP Address	<u>192.168.100.100</u>	Press [ENTER] to be in modify mode; select the item to be modified using the up and down keys, and modify the value using the left and right keys or the numeric keys.



	Subnet Mask	<u>255.255.255.0</u>	Press [ENTER] to be in modify mode; select the item to be modified using the up and down keys, and modify the value using the left and right keys or the numeric keys.
	Gateway	<u>192.168.100.254</u>	Press [ENTER] to be in modify mode; select the item to be modified using the up and down keys, and modify the value using the left and right keys or the numeric keys.
	Audio In	<u>Line In</u> /Mic In	Set Audio In
	Audio Enable	On / <u>Off</u>	Turn on/off audio output
	Audio Volume	0 ~ <u>A</u> ~ 10	Volume Setting
Audio	Encode Sample Rate	1.48 KHz (AAC) 2.44.1 KHz (AAC) 3.16 KHz (G.711) 4.8 KHz (G.711)	Set the encode type and sample rate SDI supports the audio output of 48 KHz only
	Prompt	On / Off	Turn on/off the prompt information on the display
	IR Receive	<u>On</u> / Off	
	Tally Lamp	Enable / Disable	
	Language	English / Chinese	
System	Initial Position	<u>Last MEM</u> / 1st Preset	Set the camera lens to return to the last operated position or the first preset position after POWER ON
	Control Device	Encoder / Controller	Control Device setting, Controller: for joystick Encoder: for tracking system



	Motionless Preset	On / <u>Off</u>	When the function is enabled, the screen will Freeze when Preset is executed. Freeze will be released after Preset is completed.
	Control Port	RS-232 /RS-422	Choose whether the control interface used is RS-232 or RS-422
	Protocol	VISCA/Pelco D	
	Baud Rate	9600 /38400	Choose the transmission speed of the control signal
	VISCA Address	<u>0</u> ~ 7	
	Pelco D Address	<u>1</u> ~ 255	The Protocol set to Pelco D allows the camera ID address to be assigned
	Output Mode	1. 3840 x 2160/29.97p 2. 3840 x 2160/25p 3. 1080p/59.94 4. 1080p/50 5. 1080p/29.97 6. 1080p/25 7. 720p/59.94 8. 720p/50 9. 720p/29.97 10. 720p/25	Choose the output resolution
	Factory Reset	On / <u>Off</u>	Resume the factory default setting
Status			Display the current setting status



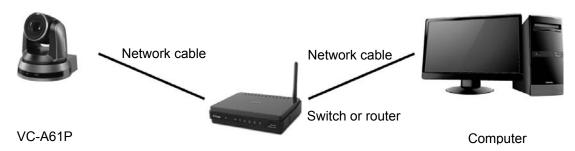
Chapter 6 Network Function Settings Description

6.1 Connecting Camera to Network

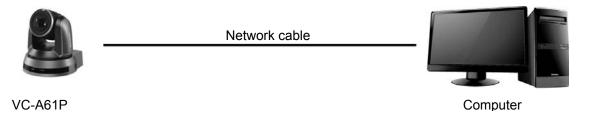
6.1.1 Connecting to Internet

Two common connection methods are shown below

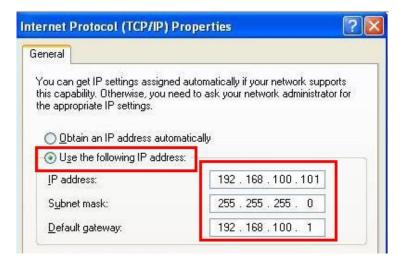
1. Connecting via switch or router



2. To connect directly through network cable, the IP address of the computer should be changed so that it is on the same network segment as the camera e.g.: The factory-preset default IP address of VC-A61P is 192.168.100.100. The computer IP address must be set with the same network segment, such as 192.168.100.101, so that the computer can be connected correctly with the camera



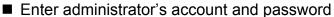
Change network settings

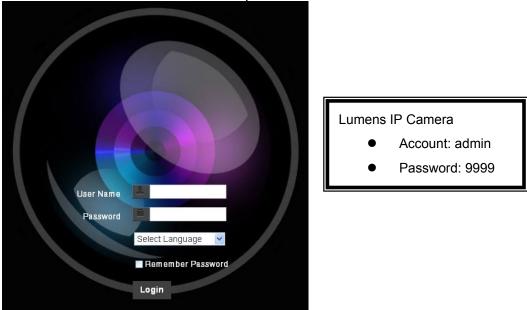




6.1.2 Using the Browser to View the Images

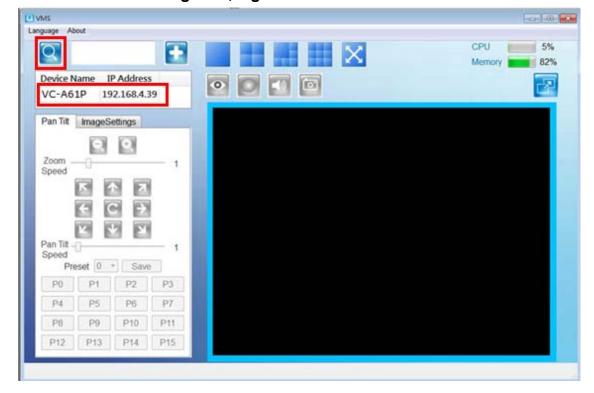
■ Open the browser, and enter the URL of VC-A61P in the IP address bar e.g.: http://192.168.100.100 (default IP address)





6.1.3 Using Lumens VMS Software to View the Images

- Open *LUMENS VMS* software
- Search for the camera: Press [automatically search for the device] button to locate the VC-A61P camera
- Click VC-A61P in the list and start operation after connecting to network
- <Note> When using automatic search, the camera and computer must be in the same network segment, e.g.: 192.168.4.X





6.1.4 Using RTSP Player to View the Images

In addition to the browser and VMS, other free softwares also can be used for RTSP connection, such as VLC, Quick Time and PotPlayer

RTSP connection address formats are as follows:

- RTSP Main Streaming => rtsp://camera IP:8554/hevc
- RTSP Sub1 Streaming => rtsp://camera IP:8557/h264
- RTSP Sub2 Streaming => rtsp://camera IP:8556/h264

Example: Open VLC software and enter URL: https://192.168.100.150:8557/h264

```
Network Protocol

Please enter a network URL:

rtsp://192.168.100.150:8557/h264|
```



6.2 Web Page Function Description 6.2.1 Login Screen



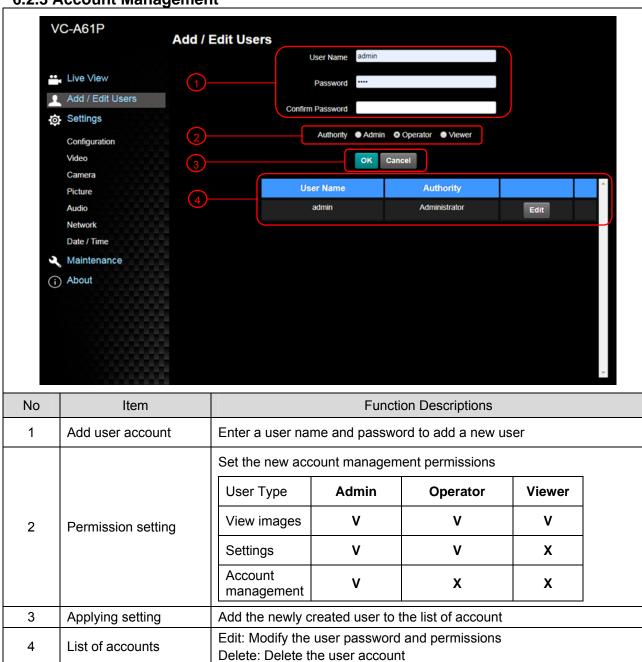
No	Item	Function Descriptions
1	Username	Enter user account (default: admin)
2	Password	Enter user password (default: 9999)
3	Language selection	Currently, the system supports English, Traditional Chinese and Simplified Chinese
4	Remember password	Save user account name and password to the browser. When you log in next time, there is no need to re-enter them
5	Login	Log into the administrator screen on the website







6.2.3 Account Management





6.2.4 Setting-System Setting



After the setting has been modified, select this button to apply the

the browser

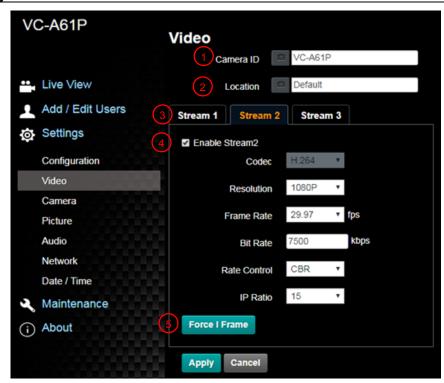
setting



2

Apply

6.2.5 Setting - Video



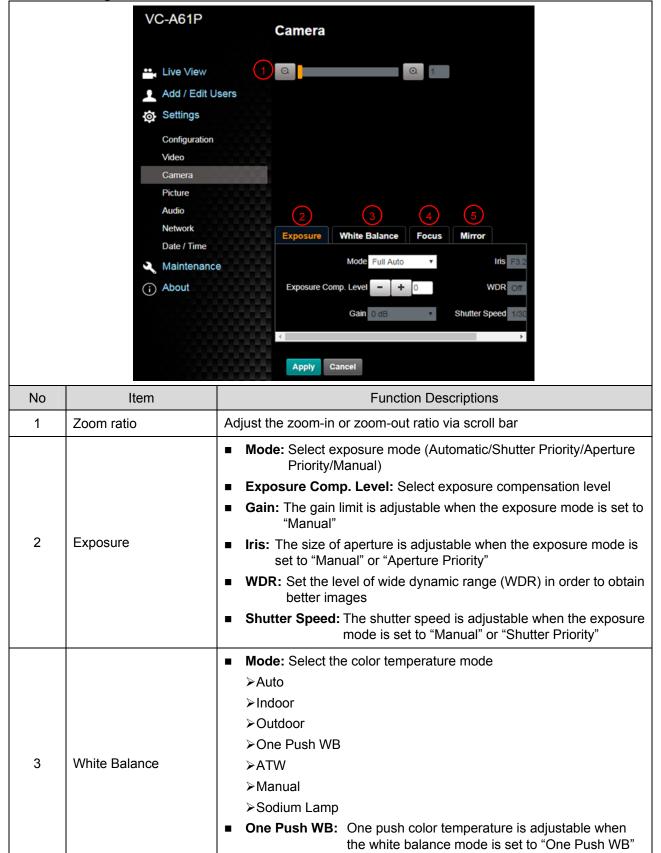
No	Item	Function Descriptions	
1	Camera name	Modify the camera name ■ Camera names are limited to 1 - 12 characters ■ Please use a camera name by mixing uppercase and lowercase letters or numbers. Do not use "/" and "space" or special symbols	
2	Camera Location	Modify the location of the camera, such as Meeting Room 1 ■ Camera location is limited to 1 - 12 characters ■ Please use a camera name by mixing uppercase and lowercase letters or numbers. Do not use "/" and "space" or special symbols	
3	Streaming 1/ Streaming 2/ Streaming 3	VC-A61P supports 3 streaming outputs. Please refer to <u>6.2.5.1</u> <u>Streaming Parameter Setting</u> for relevant settings	
4	Open Streaming	Confirm whether or not the streaming function is opened	
5	Force I Frame	Check this item to insert IDR frame into specified series flow and apply its setting. User's setting will be reserved and displayed in GUI interface	

6.2.5.1 Streaming parameter setting

Function		Streaming 1	Streaming 2	Streaming 3
Encode Format		H.265	H.2	264
Resolut	ion	4K /1080P / 720P	1080P/720P	640 x 360
Frame Rate		Setting a	ccording to the supported	resolution
	Range	2,000 ~ 20,000	2,000 ~ 20,000	512 ~ 5,000
Bit Rate (kbps)	Factory Default	7,000	7,000	1,000
Rate Control			CBR/VBR	



6.2.6 Setting - Camera

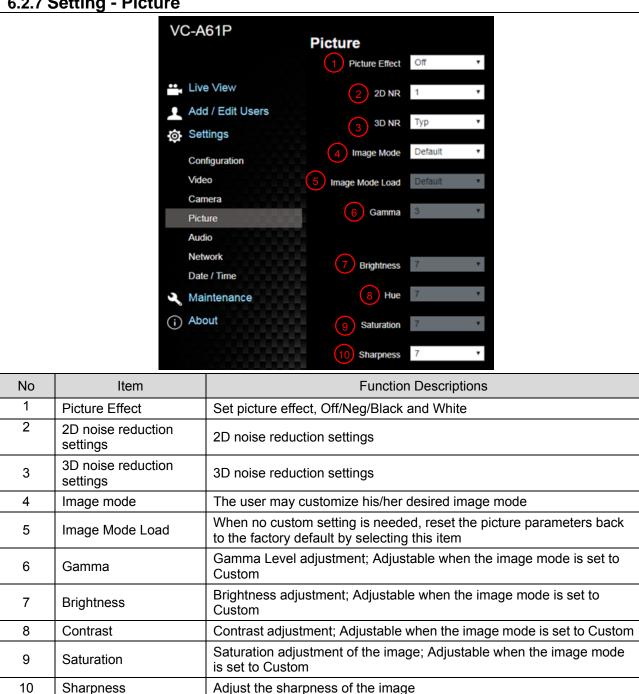


Manual Red/Blue: Manually adjust blue/red color temperature



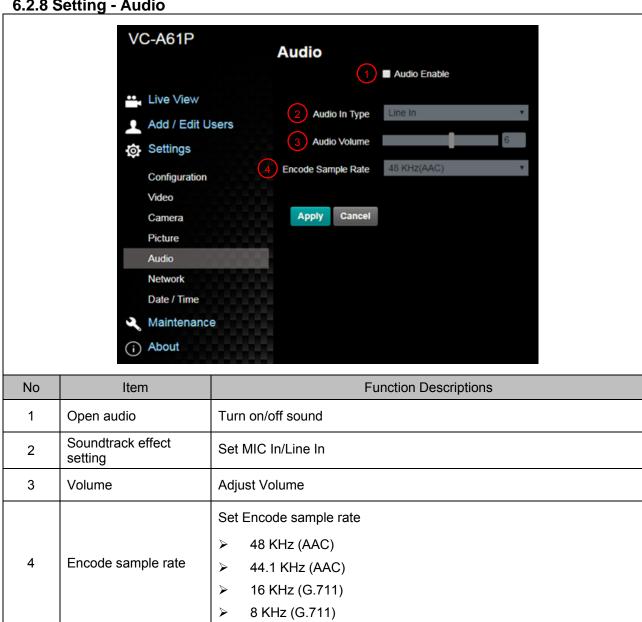
		■ Mode: Select manual/automatic focus	
4	Focus	■ Focus Range: The focusing range is adjustable when the focus mode is set to "Manual"	
		■ AF Sensitivity: Set automatic focus sensitivity	
		■ AF Frame: Set automatic focus range	
5	Mirror	■ Mirror: Set automatic flip mode	

6.2.7 Setting - Picture

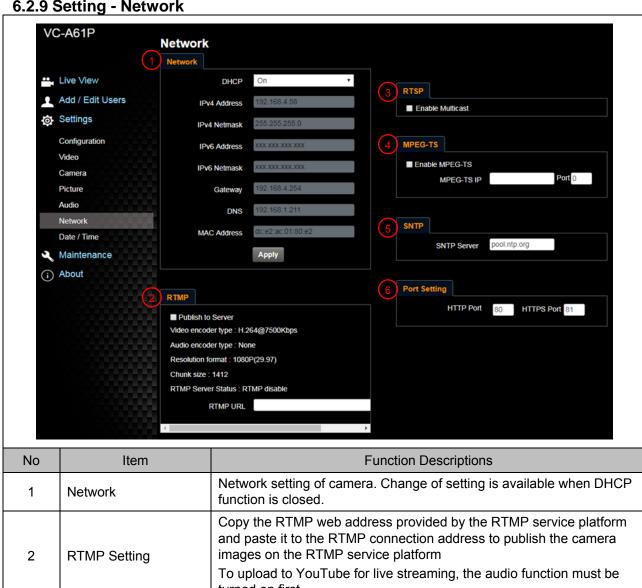




6.2.8 Setting - Audio

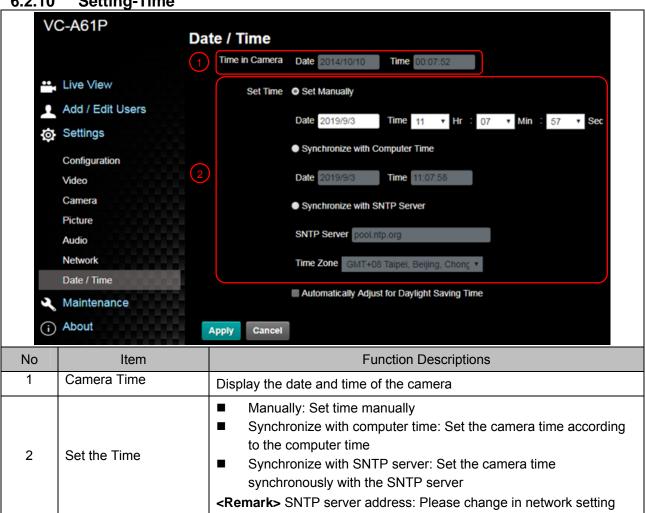


6.2.9 Setting - Network

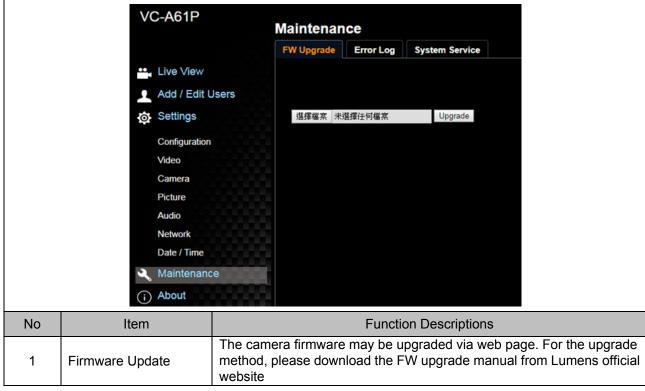


No	Item	Function Descriptions	
1	Network	Network setting of camera. Change of setting is available when DHCP function is closed.	
2	RTMP Setting	Copy the RTMP web address provided by the RTMP service platform and paste it to the RTMP connection address to publish the camera images on the RTMP service platform	
		To upload to YouTube for live streaming, the audio function must be turned on first	
3	RTSP Setting	Enable/Disable Multicast. It is suggested to enable Multicast when the number of users online watching the live image simultaneously is more than 4	
		Set MPEG-TS format	
4	MPEG-TS Setting	<remark> The following port has been used by the camera. Setting of the port may not connect correctly</remark>	
		8554, 8556, 8557, 8080, 80, 81, 9090, 23	
5	SNTP Setting	Set SNTP Server IP	
		Set HTTP port. The default Port value is 80	
6	Port Setting	<remark> Change of setting is available only when DHCP function of camera is closed</remark>	

6.2.10 **Setting-Time**

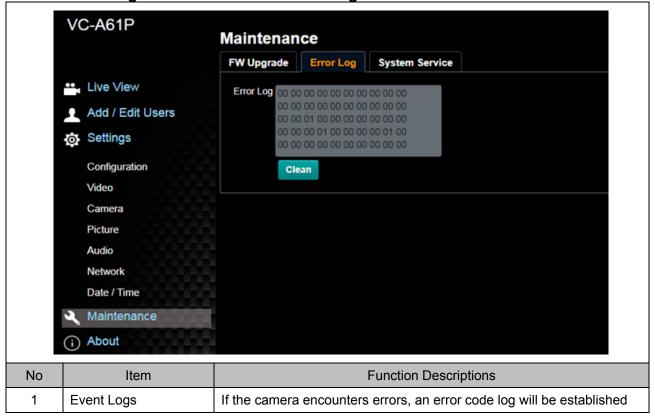


6.2.11 **Setting - Maintenance - Upgrading Firmware**

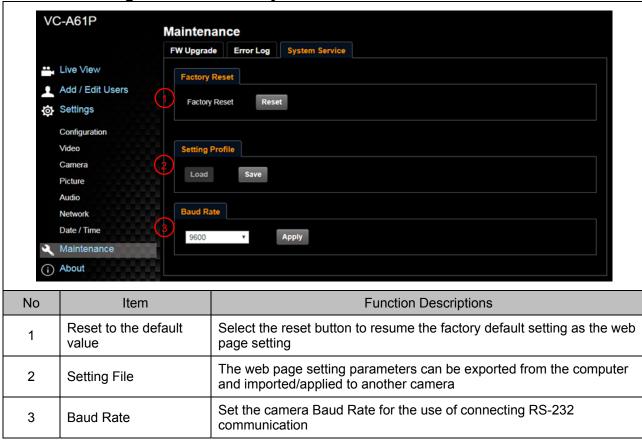




6.2.12 Setting - Maintenance - Incident Log

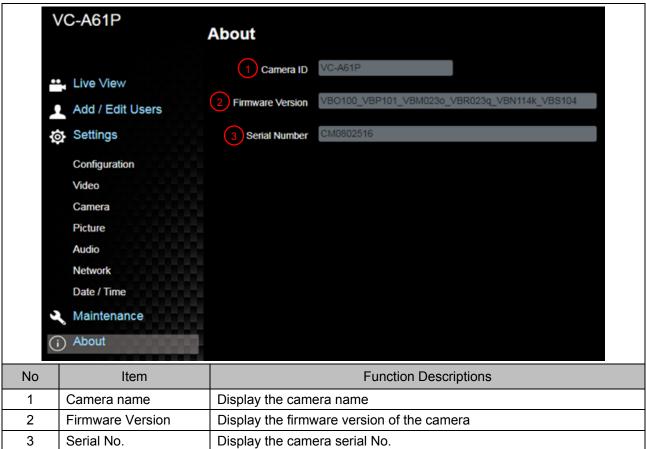


6.2.13 Setting - Maintenance - System Service





6.2.14 About



Chapter 7 DIP Switch Setting

7.1 DIP SWITCH

7.1.1 OUTPUT Switch

To switch via the OSD/ RS-232 Command is also available based on the last executed action



ID	Resolution	Frame Rate	
0	2040 2460	29.97	
1	3840 x 2160	25	
2		59.94	
3	4000 4000	50	
4	1920 x 1080	29.97	
5		25	
6		59.94	
7	4000 700	50	
8	1280 x 720	29.97	
9		25	
Α			
В			
С	Reserved	Decembed	
D		Reserved	
Е			
F			

7.1.2 IR SELECT



ID	Setting
1	
2	
3	

Chapter 8 Troubleshooting

This chapter describes problems you may encounter while using VC-A61P. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurred, please contact your distributor or the service center.

No.	Problems	Solutions
1.	Boot without power signal	1. Make sure you have plugged in the power cord. 2. When using a PoE connection, ensure that the power supply supports POE+ (IEEE 802.3at) hubs
2.	There is no image output from VC-A61P	 Check the power supply or PoE supply functions. Confirm the output signals are in streaming output. Confirm whether the camera resolution can be used together with the monitor equipment If 4k output, confirm the monitor equipment supports 4K output Replace the cables and make sure they are not faulty.
3.	VC-A61P image is severely delayed	Please use 1080p or 720p 60/50 fps rather than 25/30 fps signals.
4.	RS-232 cannot be controlled	1.Confirm the connection is correct (RS-232 In/ Out) 2.Please make sure the Baud rate setting is the same as the control equipment
5.	Whether the Internet can be used for operation	Please refer to Chapter 6 Network Function Description for the Internet usage

