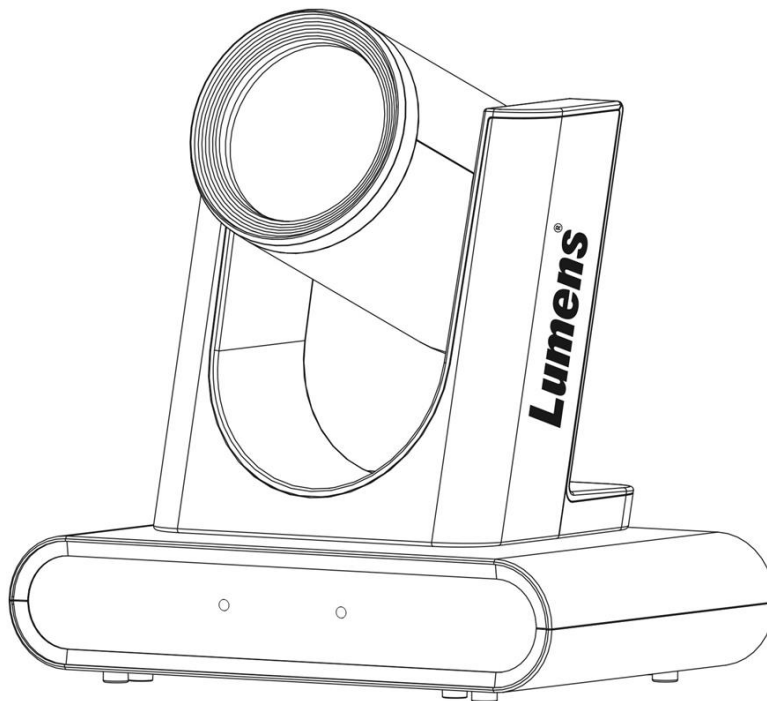


VC-B50U

PTZ Video Camera

User Manual - English



Version VVM100

[Important]

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

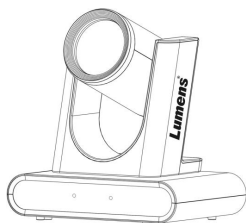
<https://www.MyLumens.com/support>

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Chapter 1 Package Contents

Camera



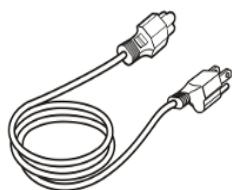
Remote Control



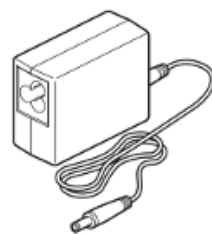
RS-232/RS-422
Connection
Instruction



Power Cord



Appearance may vary
depending on country/
region



Power Adapter

3-PIN to 2-PIN
connector



(For Japan only)

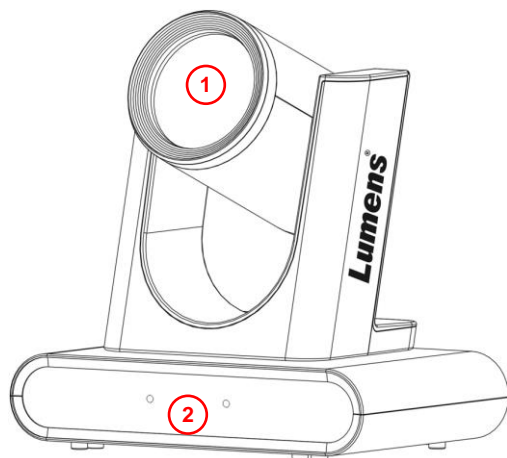
USB 3.0 cable - 2 M
(Type B to Type A)



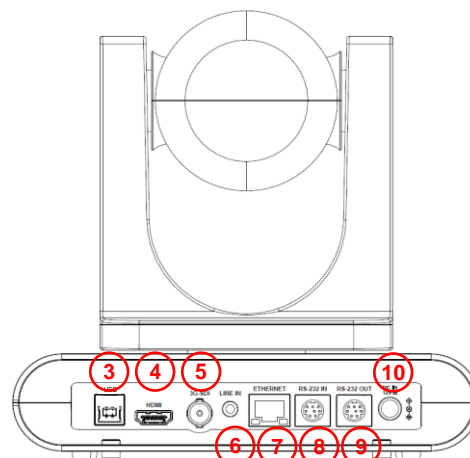
Chapter 2 Product appearance

2.1 I/O functions Introduction

Front View



Back View



NO.	Item	Function Descriptions
1.	Main camera lens	HD camera lens
2.	LED indicators	Displaying the camera status, please refer to 2.2 LED Indicator
3.	USB3.0 Port	The USB port is for connecting to the USB port of the computer and providing USB signal images
4.	HDMI output	HDMI output (Audio output supported)
5.	3G-SDI output	3G-SDI output(Audio output supported)
6.	Audio In	3.5 mm LINE IN
7.	Network port	Network cable port, supporting PoE (IEEE802.3af) power supply
8.	RS-232 input	RS-232 input port, at most 7 cameras can be connected in a serial connection
9.	RS-232 output	RS-232 output port, at most 7 cameras can be connected in a serial connection
10.	DC 12 V power Port	DC supply connecting port

2.2 Description of LED indicator

Status	Power	Standby
Startup in progress	Green	Orange
In use	Green	Off
In standby mode	Off	Orange
Privacy mode	Orange	Off

Chapter 3 Instruction for installation

3.1 Preparation before installation

Installation and connection of 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.

3.1.1 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.

3.1.2 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.

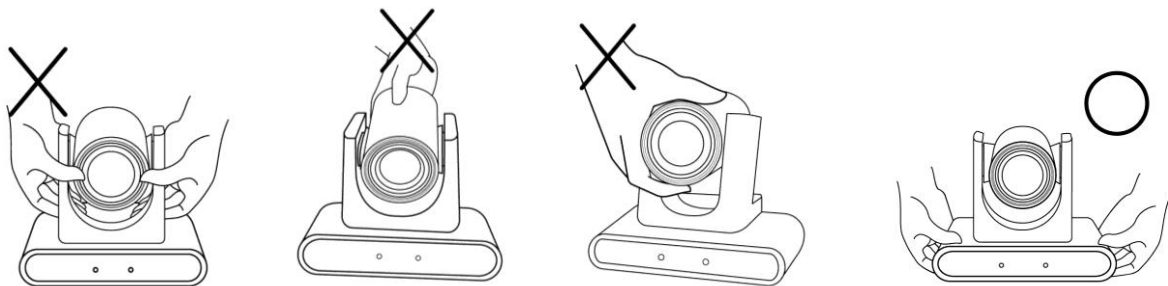
3.1.3 Please choose a proper place for installation of camera in advance. Please determine an installation place according to the following requirements

- a. Confirm the position for the object to be captured.
- b. Confirm whether the camera is set at a proper distance from other light sources.

3.2 Instruction for installation

3.2.1 I would like to install camera on the desk

- 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



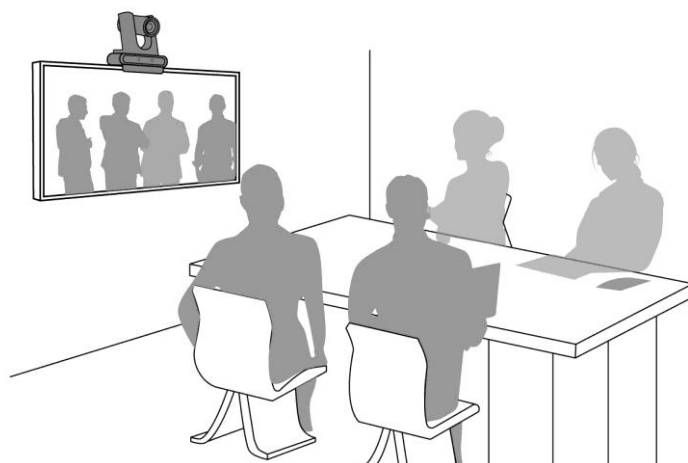
3.2.2 I would like to install the camera on the ceiling/wall/TV stand

Lumens can provide the following optional accessories. Please contact your Lumens distributor if needed for purchase

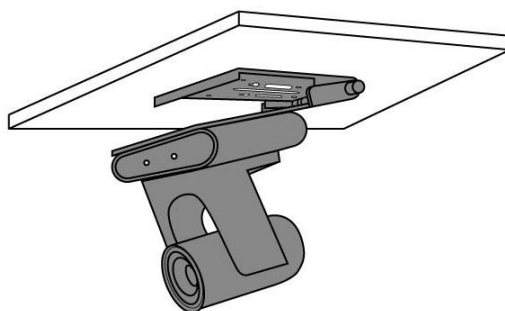
- VC-WM14 3 in 1 Folding Bracket
- VC-WM15 Ceiling Mounted Bracket

For installation of brackets, please download [VC-WM14/VC-WM15 Quick Installation Guide](#) from the Lumens website

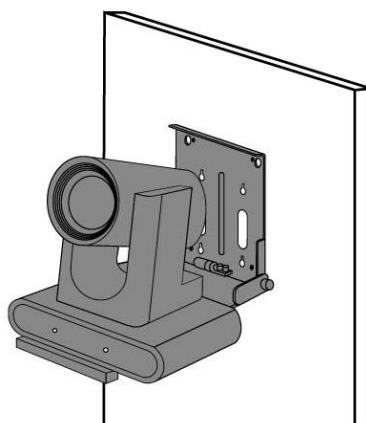
◆ Install on the TV



◆ Install on the ceiling

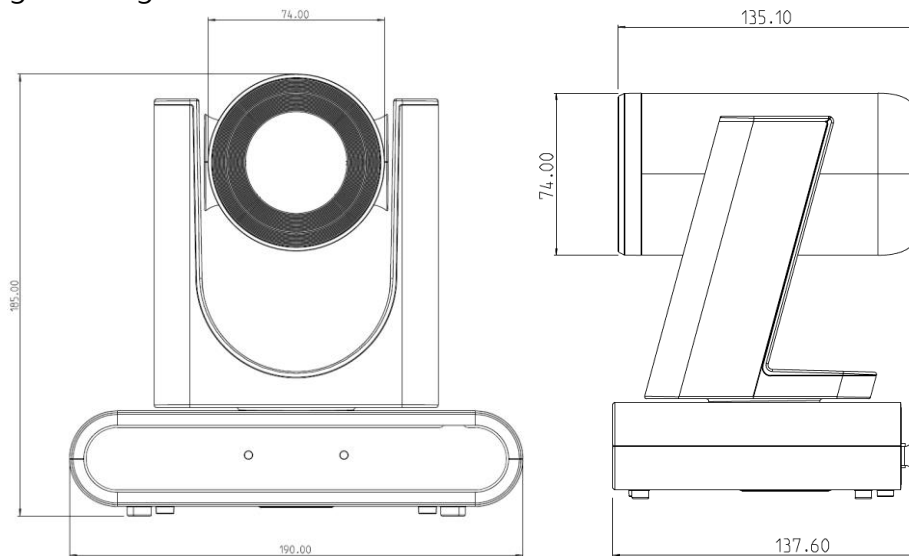


◆ Install on the wall



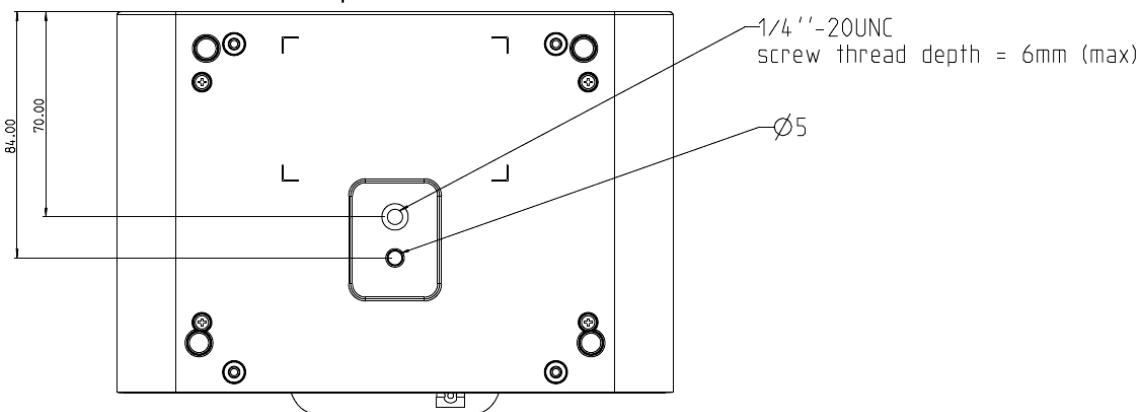
3.2.3 Camera Size

- Length x Width x Height: 190 x 138 x 185 mm
- Weight: 1.3 Kg

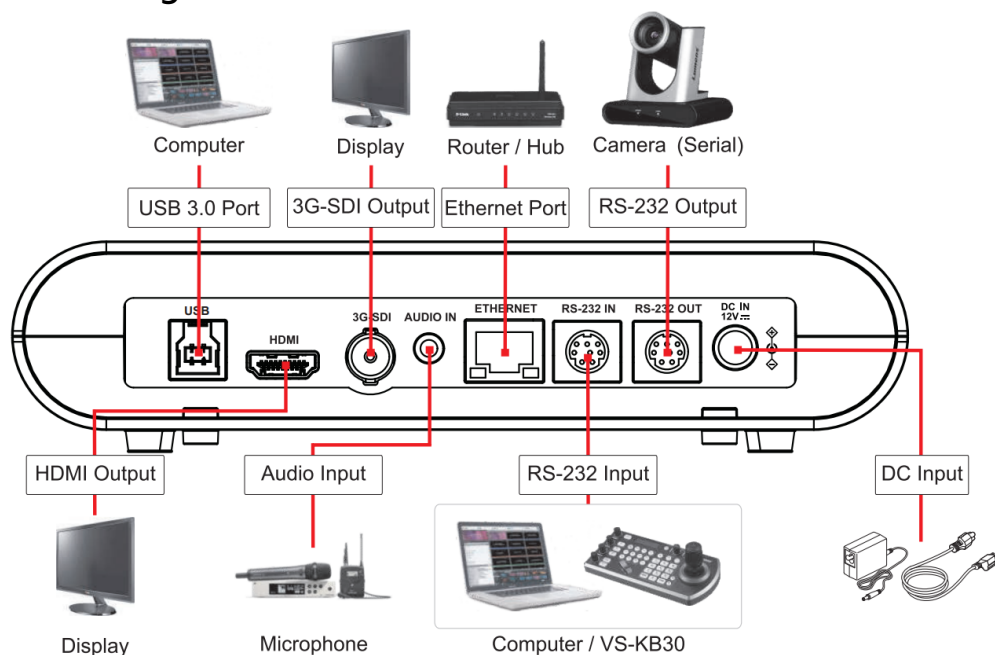


3.2.4 Dimensions of the bottom of the machine

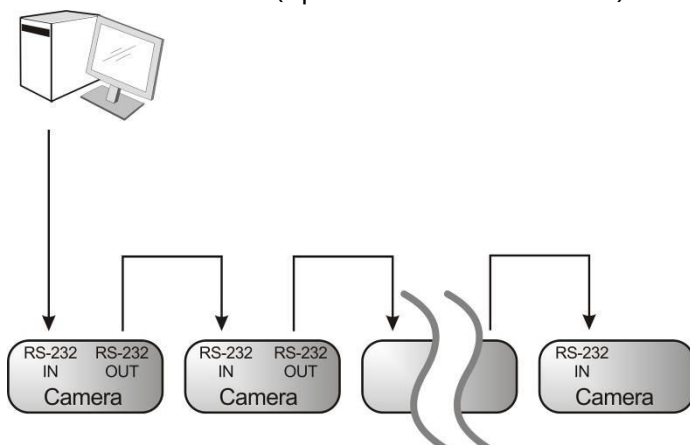
The camera can be mounted on a 1/4" -20 UNC PTZ tripod deck by using the lock holes on the bottom for the tripod



3.5 Connecting devices



3.5.1 RS-232 connection (up to 7 Lumens cameras)



■ RS-232 pins definition instructions

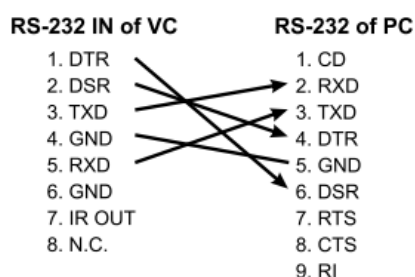
▼ RS-232 IN Pins Instructions

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

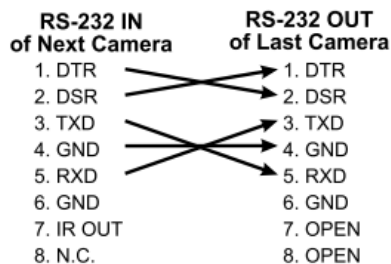
▼ RS-232 OUT Pins Instructions

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

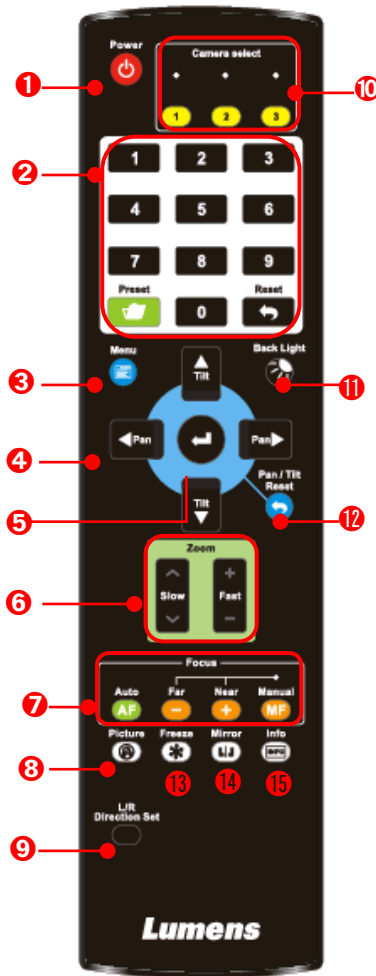


▼ RS-232 Connection Instructions



Chapter 4 Remote Control and Setting Menu

4.1 Remote Control



No.	Item	Description
1.	Power	Power Switch
2.	Preset	<ul style="list-style-type: none"> Number 0-9: Click to call the preset Preset: Appoint an ID (0-9) to save the current position data Reset: Appoint an ID (0-9) to delete the current position data
3.	Menu	Display OSD menu
4.	Pan/ Tilt	Move the lens
5.	Home-Enter	Go back to the main page / Execute
6.	Zoom	<ul style="list-style-type: none"> Fast: Adjust image size Slow: Fine-tune image size
7.	Focus	<ul style="list-style-type: none"> Auto: Auto focus Manual: Enable Manual Focus Far/ Near: Adjust the focal length in Manual
8.	Picture	Switch image effect (OFF/ Neg/ B&W)
9.	L/R Direction Set	L/R Direction / Normal
10.	Camera select	Choose camera ID 1 ~ 3
11.	Back Light	Turn on/off back light compensation
12.	Pan/ Tilt Reset	Clear the Pan/Tilt setting
13.	Freeze	Freeze the screen
14.	Mirror / Flip	Rotate the image (OFF/ Mirror/ Flip/ Mirror+Flip)
15.	Info	Status information

4.2 Setting Menu

Press [MENU] on the **remote control** to enter the setting menu; the **bold underlined** values in the following table are defaults.

1st Level Major Items	2nd Level Minor Items	3rd Level Adjustment Values	Function Descriptions
Exposure	Mode	<u>Full Auto</u> / Shutter Pri/ Iris Pri/ Manual/ White Board	Exposure mode setting
	Exposure Comp.	On/ <u>Off</u>	Turn on/off Exposure Comp.
	Exposure Comp. Level	-6~ <u>C</u> ~4	Adjustable after <i>Exposure Comp.</i> is activated
	Spot Light	On/ <u>Off</u>	Turn on/off Spot Light
	Spot Light Position	X(0~6)Y(0~4)	Adjustable after <i>Spot Light</i> is activated
	Anti-Flicker	50Hz/ 60Hz/ <u>Off</u>	Enable/ Disable Anti-Flicker
	Shutter Speed	60/30mode 50/25mode	Adjustable when the <i>Exposure mode</i> is set to <i>Shutter Pri</i> or <i>Manual</i>
		1/10000~1/25	
	Iris Level	F1.6~ <u>C</u> ~F14/ Close	Adjustable when the <i>Exposure mode</i> is set to <i>IRIS Pri</i> or <i>Manual</i>
	Gain Limit	8~ <u>30</u> dB	Max. limit value of electron gain
White Balance	Gain Level	<u>0</u> ~30dB	Adjustable when the <i>Exposure mode</i> is set to <i>Manual</i>
	WDR	<u>Off</u> / 1/ 2/ 3	WDR settings
	Mode	<u>1.Auto</u> 2.Indoor 3.Outdoor 4.One Push WB 5.ATW 6.Manual 7.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	<u>ENTER</u>	One push trigger
Picture	Manual Red	0~ <u>C</u> ~127	Adjustable when the white balance mode is set to <i>Manual</i>
	Manual Blue	0~ <u>C</u> ~127	Adjustable when the white balance mode is set to <i>Manual</i>
	2D NR	Off/ <u>1</u> / 2/ 3	2D noise reduction
	3D NR	Off/ Low/ <u>Typ</u> / Max	3D noise reduction
Image Mode	Image Mode	<u>Default</u> / Custom	The user may customize his/her desired image mode
	Brightness	0~ <u>C</u> ~15	Adjustable when the <i>Image Mode</i> is set to <i>Custom</i>

1st Level Major Items	2nd Level Minor Items	3rd Level Adjustment Values	Function Descriptions
	Hue	0~ <u>C</u> ~15	Adjustable when the <i>Image Mode</i> is set to <i>Custom</i>
	Saturation	0~ <u>C</u> ~15	Adjustable when the <i>Image Mode</i> is set to <i>Custom</i>
	Gamma	0~ <u>C</u> ~3	Adjustable when the <i>Image Mode</i> is set to <i>Custom</i>
	Sharpness	0~ <u>C</u> ~14	Adjustable when the <i>Image Mode</i> is set to <i>Custom</i>
Pan Tilt Zoom	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 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>	After it is activated, the Pan command will be reverse
	Tilt Flip	On/ <u>Off</u>	After it is activated, the Tilt command will be reverse
	Preset Speed	5/ 25/ 50/ 80/ <u>120</u> deg/sec	Set the rotation speed of the cradle head when Preset is executed
	PTZ Speed Comp	On/ <u>Off</u>	After it is activated, the Pan/Tilt moving speed will vary from the zoom position
	D-Zoom Limit	<u>x1</u> ~x12	Set the D-zoom limit
D-Effect	Mirror	<u>Off</u> / Mirror/ Flip/ Mirror+Flip	Set the mode at which the image is turned
Auto Focus	AF Sensitivity	Low/ <u>Middle</u> / High	For AF triggering speed, the higher the sensitivity is, the faster AF is triggered
	AF Frame	Center/ Full Frame/ <u>Auto</u>	AF frame setting, when <i>Center</i> 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
Ethernet	DHCP	<u>On</u> /Off	Enable/Disable the dynamic host configuration
	IP Address	<u>192.168.100.100</u>	Configurable when <i>DHCP</i> is set to <i>Off</i>
	Subnet mask	<u>255.255.255.0</u>	
	Gateway	<u>192.168.100.254</u>	

1st Level Major Items	2nd Level Minor Items	3rd Level Adjustment Values	Function Descriptions
Audio	Audio Enable	On/ <u>Off</u>	Turn on/off audio output
	Audio In	<u>Line In</u>	
	Audio Volume	0~ <u>C</u> ~10	Volume Setting
	Audio Delay	On/ <u>Off</u>	When the audio is not synchronized with the video, enable this function to set the audio delay time
	Audio Delay Time(ms)	- <u>10</u> ~-500ms	Set audio delay time
	Encode Sample Rate	<u>48 KHz(AAC)</u>	Set the encode type and sample rate
System	Prompt	On/ <u>Off</u>	Turn on/off the prompt information on the display
	IR Receive	<u>On/Off</u>	Turn on/off the infrared reception When it is Off, the remote control will not be able to control the camera. At this moment, turn off and then turn on the power to restore control of the remote control.
	IR Select	<u>1</u> / 2/ 3	Camera IR Select setting must be the same setting as the Camera Select of the remote control to control the camera
	Language	<u>English</u> / Chinese	
	Initial Position	<u>Last MEM</u> / 1st Preset	After turning on the camera, you can select the lens to be returned to <u>Last MEM</u> or <u>1st Preset</u> <Remark> <u>1st Preset</u> = Preset 0
	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
	Privacy Mode	On/Off	Enable/Cancel Privacy Mode After the function is enabled, 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	<u>VISCA</u>	Supporting VISCA protocol

1st Level Major Items	2nd Level Minor Items	3rd Level Adjustment Values	Function Descriptions
	Baud Rate	<u>9600</u> /38400	Choose the transmission speed of the control signal
	VISCA Address	<u>1~7</u>	The camera ID address can be assigned. Select 0 for automation.
	Output Mode	<u>2160p 30/25</u> 1080p 60/50/30/25 720p 60/50/	Choose the output resolution <div>Note</div> <ul style="list-style-type: none"> • SDI does not support 2160p resolution. • When the resolution is set to 2160p 30, SDI will output 1080p 30.
	Factory Reset)	On/ <u>Off</u>	Resume the factory default setting
Status			Display the current setting status

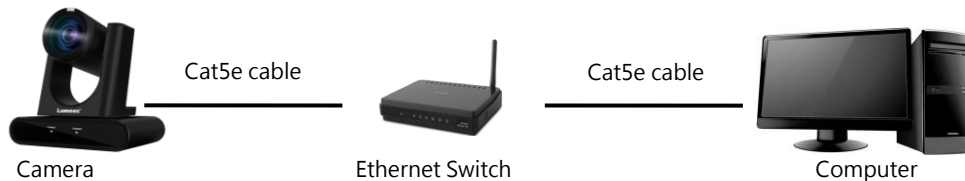
Chapter 5 Network Function Settings Description

5.1 Connecting Camera to Network

5.2.1 Connecting to Internet

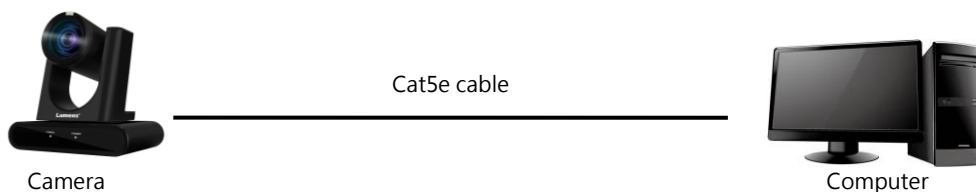
Two common connection methods are shown below

1. Connecting via switch or router

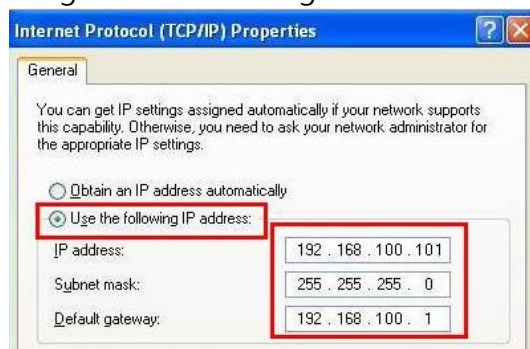


2. To connect directly through network cable, the IP address of the computer should be changed so that it is on the same network segment as the camera

E.g.: The factory-preset default IP address of the camera 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



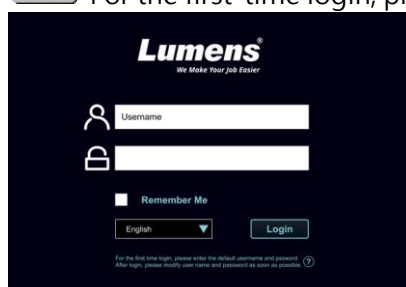
5.2.2 Using the Browser to View the Images

- 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 administrator's account and password

Note For the first-time login, please refer to [5.2.9 System - User](#) to change the default password



Lumens IP Camera	
●	Account: admin
●	Password: 9999 (Default)

5.2.3 Using RTSP Player to View the Images

Free software can be used for RTSP connection, such as VLC, Quick Time and PotPlayer
RTSP connection address formats are as follows:

- RTSP Stream 1 => rtsp://camera IP:8554/hevc
- RTSP Stream 2 => rtsp://camera IP:8556/h264

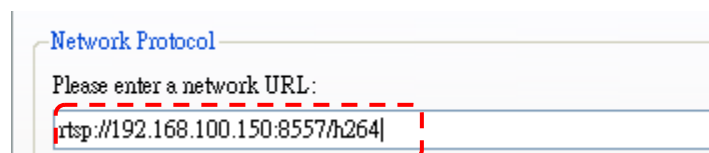
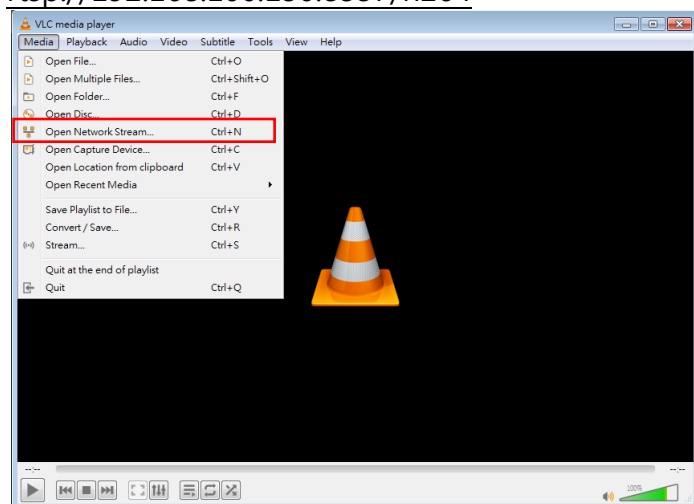
If password authentication is enabled, the RTSP connection address is as follows:

- rtsp://Username:Password@VC IP address:port/h264
- To enable password authentication function, please refer to 5.2.7 System - Network

Example:

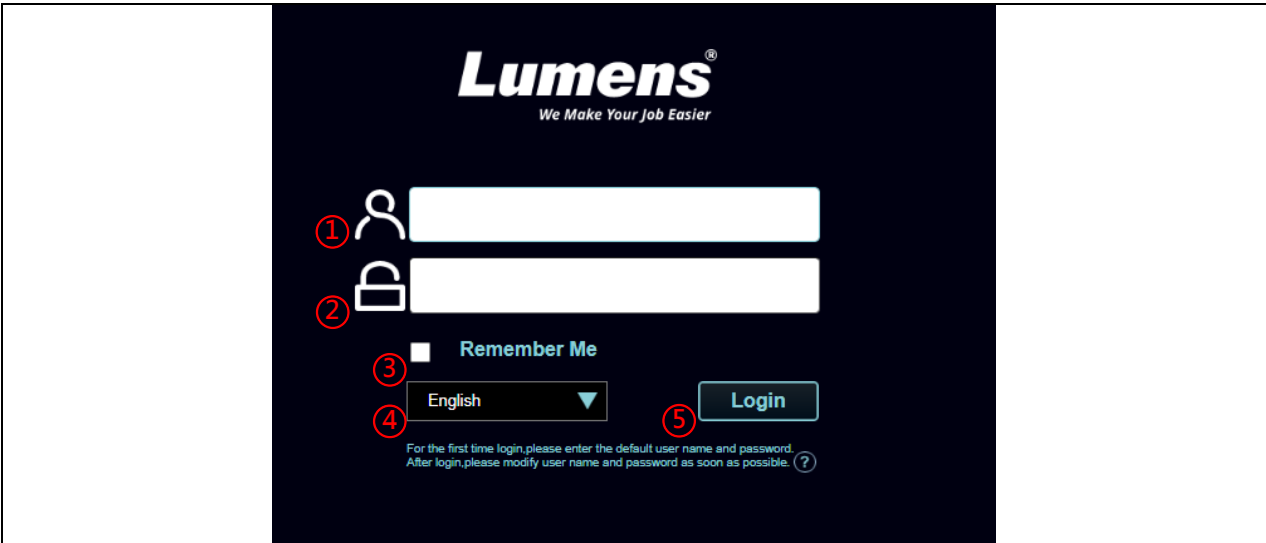
Open the VLC software, click [Open Network Streaming], and enter the URL:

rtsp://192.168.100.150:8557/h264



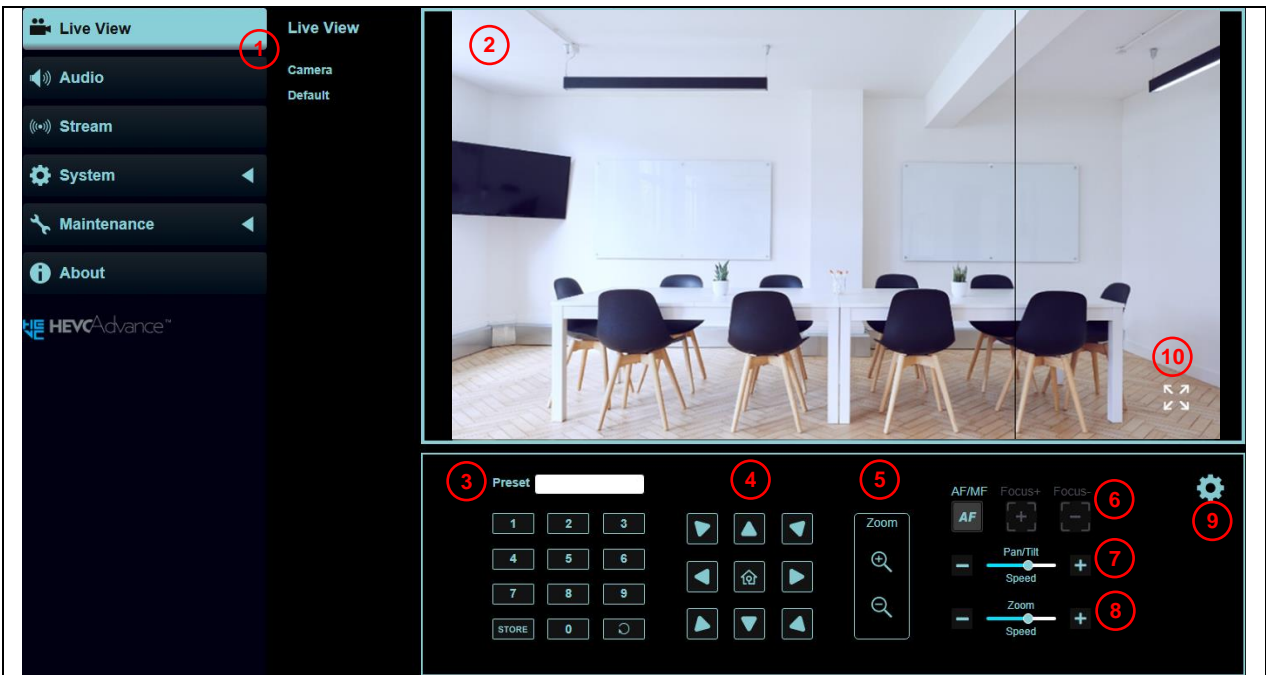
5.2 Web Function Description

5.2.1 Login Screen



No	Item	Function Descriptions
1	User Login Account	Enter user login account (default: admin)
2	User Password	Enter user password (default: 9999) Note For the first-time login, please refer to 5.2.9 System - User to change the default password
3	Remember user account and password	Save user login account and password to the browser. When you log in next time, there is no need to re-enter them
4	Language	Supporting English/Traditional Chinese/Simplified Chinese
5	Login	Log into the administrator screen on the website



5.2.2 Live Video – PTZ Control

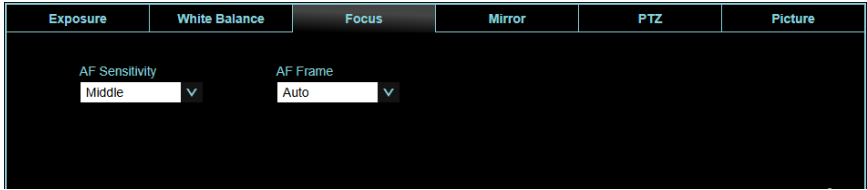
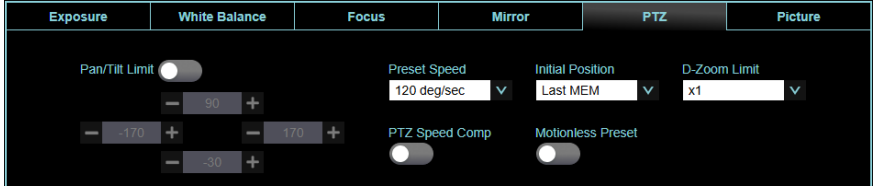
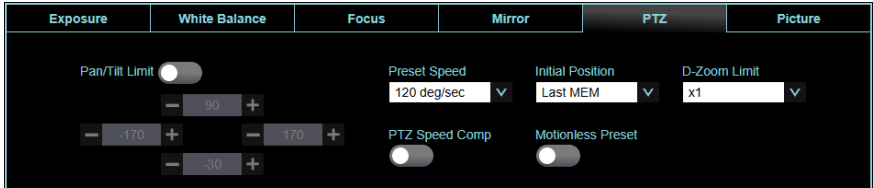
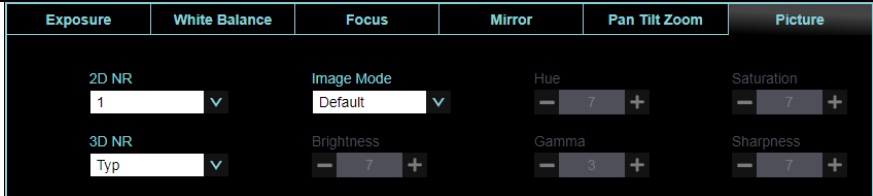


No	Item	Function Descriptions
1	Camera	Display camera ID/location

	ID/location	Please refer to <u>5.2.7 System - Output Setting</u>
2	Preview window	Display the screen currently captured by the camera
3	Preset setting	Select the number first and then select SAVE or LOAD
4	Pan/Tilt setting	Adjust the Pan/Tilt position of the camera screen
5	Zoom	Zoom In/Zoom Out ratio
6	AF/MF	Switch AF/MF
7	Pan/ Tilt Speed	Adjust the horizontal/vertical moving speed of the lens
8	Zoom speed	Adjust the zoom speed
9	Camera Setting	Please refer to <u>5.2.3 Live Video - Camera Setting</u> for related settings
10	Enlarge the preview window	Zooming in/out the preview image

5.2.3 Live Video - Camera Setting

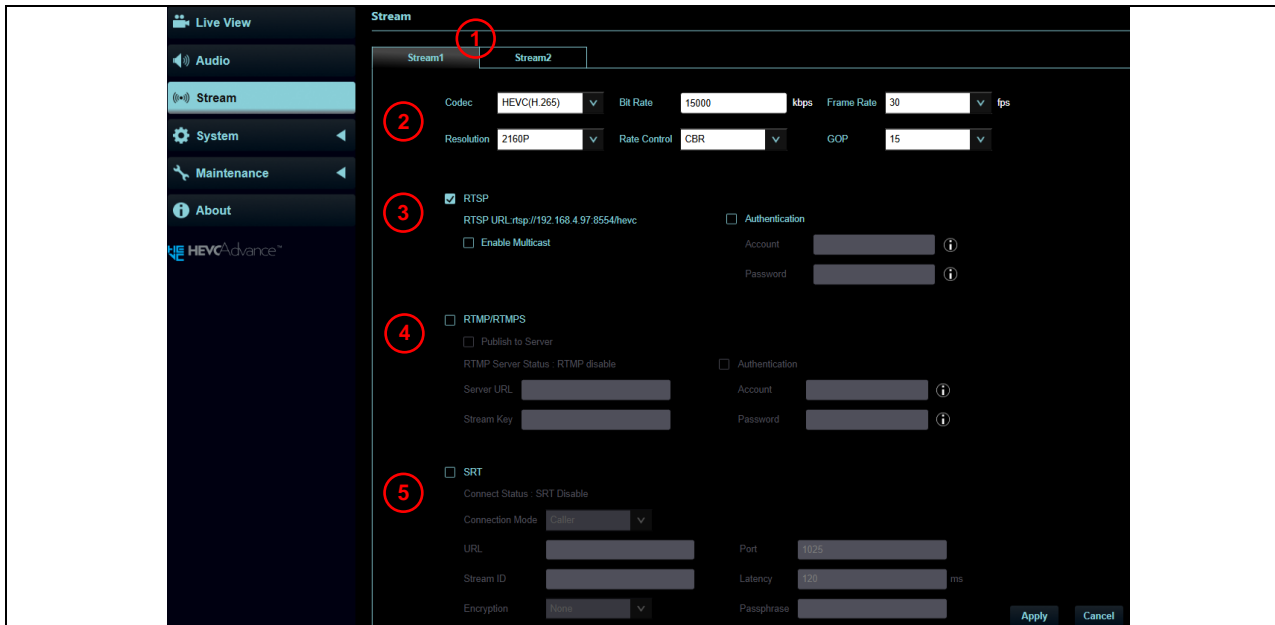
		
No	Item	Function Descriptions
1	Exposure	<ul style="list-style-type: none"> ■ Mode: Select exposure mode (Full Auto/Shutter Pri/Iris Pri/Manual/White Board) ■ Gain Limit: Adjust the gain limit (adjustable under "Manual") ■ Exposure Comp. Level: Select exposure compensation level ■ WDR: Set the level of wide dynamic range (WDR) to obtain better images ■ Iris Level: Adjust the size of aperture (adjustable only under the "Manual" or "Aperture Priority" ■ Shutter Speed: Adjust the shutter speed (adjustable only under the "Manual" or "Shutter Priority" ■ Anti-Flicker: Enable Anti-flicker function(adjustable 50Hz or 60Hz)
2	White Balance	 <ul style="list-style-type: none"> ■ Mode: Select the color temperature mode ■ Open Push WB: Single color temperature execution adjustment (adjustable only under the "One Push WB" ■ Manual Red/Blue: Manually adjust blue/red color temperature

3	Focus	 <ul style="list-style-type: none"> ■ AF Sensitivity: Set automatic focus sensitivity ■ AF Frame: Set automatic focus range
4	Mirror	 <ul style="list-style-type: none"> ■ Mirror: Set image mirroring ■ Flip: Set image flip
5	Pan Tilt Zoom(PTZ)	 <ul style="list-style-type: none"> ■ Pan/Tilt limit: Enable, and set the pan/tilt limit ■ Preset Speed: Set the rotation speed when Preset is executed ■ Initial Position: Set the camera lens to return to <u>Last MEM</u> or <u>1st Preset</u> after POWER ON <div>Note</div> <u>1st Preset</u> = Preset 0 ■ D-Zoom Limit: Set the D-Zoom Limit ■ PTZ Speed Comp: After it is activated, the Pan/Tilt moving speed will vary from the zoom position ■ Motionless Preset: When the function is enabled, the screen will Freeze when Preset is executed. Freeze will be released after Preset is completed
6.	Photo	 <ul style="list-style-type: none"> ■ 2D noise reduction: 2D noise reduction settings ■ 3D noise reduction: 3D noise reduction settings ■ Image Mode: The user may customize his/her desired image mode ■ Hue: Hue is adjustable when the image mode is set to Custom ■ Saturation: Saturation is adjustable when the image mode is set to Custom ■ Brightness: Brightness is adjustable when the image mode is set to Custom ■ Gamma: Gamma is adjustable when the image mode is set to Custom ■ Sharpness: Sharpness is adjustable when the image mode is set to Custom
7	PTZ Control	Go back to PTZ Control page

5.2.4 Audio

<div><div><div>Live View</div><div>Audio</div><div>Stream</div><div>System</div><div>Maintenance</div><div>About</div><div>HEVCAdvance™</div></div><div><div>Audio</div><div><div>1</div><div><input checked="" type="checkbox"/> Audio Enable</div></div><div>Audio In<div>Line In</div></div><div>Encode Sample Rate<div>48 KHz(AAC)</div></div><div>Audio Volume<div><div>-</div><div>6</div><div>+</div></div></div><div><div>2</div><div><input type="checkbox"/> Audio Delay</div></div><div>Audio Delay Time(-)<div>10</div>ms</div><div><div>3</div><div>Apply</div><div>Cancel</div></div></div></div>		
No	Item	Function Descriptions
1	Audio Enable	Select to enable Audio function <ul style="list-style-type: none">■ Audio In: Set Line In■ Encode sample rate: Encode type and sample rate (48KHz(AAC))■ Volume: Adjust Audio Volume
2	Audio Delay	After checking the box, set the audio delay time (10 ~ -500 ms)
3	Apply/Cancel	Apply/Cancel Audio Setting

5.2.5 Streaming



No	Item	Function Descriptions
1	Streaming 1/ Streaming 2	Supporting 2 streaming output
2	Streaming parameter setting	Please refer to 5.2.6.1 Streaming Parameter Setting for relevant settings
3	RTSP	<p>Select to enable RTSP</p> <ul style="list-style-type: none"> ■ Enable/Disable Multicast It is suggested to enable Multicast when the number of users online watching the live image simultaneously is more than 4 ■ Enable/Disable Password Authentication <ul style="list-style-type: none"> ➤ RTSP connection format can be found in 5.1.3 Using RTSP Player to View the Images ➤ The username/password is the same as the web login, please refer to 5.2.9 System - User to add/modify account information
4	RTMP/ RTMPS	<p>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</p> <ul style="list-style-type: none"> ■ To upload to YouTube for live streaming, please refer to 5.2.4 Audio to turn on the audio function
5	SRT	<ul style="list-style-type: none"> ■ Check to enable and set SRT streaming After the SRT streaming is opened, it will be connected automatically upon startup ■ The port number must be set in the range above 1024 with a maximum value of 9999 Note The following port is used by the camera. Setting of the port may not connect correctly 8554, 8555, 8557, 8080, 9090, 1935 ■ Delay time is for 20 to 8000 microseconds. The default value is 120 microseconds

5.2.5.1 Streaming parameter setting

Function		Streaming 1	Streaming 2
Encode Format		H.264/ H.265	H.264
Resolution		2160P/ 1080P/ 720P	720p / 360P
Bit rate	Range	2,000~20,000	2,000~20,000
	Default	15,000	3,000
Rate Control		CBR / VBR	
Frame Rate		Setting according to the supported resolution	
Group of Pictures		Setting according to the supported resolution	

5.2.6 System – Output Setting

No	Item	Function Descriptions
1	Camera name	<p>Change camera name here</p> <ul style="list-style-type: none"> ■ Supporting 1 - 32 characters for the camera name ■ Please mix uppercase and lowercase letters or numbers for characters. Special symbols such as "/" and "space" cannot be used <p><small>Note</small> Modifying this field will modify the Onvif device name synchronously</p>
2	Camera Location	<p>Modify the location of the camera, such as Room 1</p> <ul style="list-style-type: none"> ■ Supporting 1 -32 characters for the camera location ■ Please mix uppercase and lowercase letters or numbers for characters. Special symbols such as "/" and "space" cannot be used <p><small>Note</small> Modifying this field will modify the Onvif device location synchronously</p>
3	Resolution	<p>Set the resolution of the camera</p> <p>After switching the resolution, the camera will restart. Please refresh the browser</p>
4	HDMI format	Select YUV444/RGB
5	Privacy Mode (UVC)	<p>Enable/Cancel Privacy Mode</p> <p>After the function is enabled, 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</p>
6	Apply/Cancel	Apply/Cancel Setting

5.2.7 System – Network

Live View

Audio

Stream

System

Output

Network

Date & Time

User

Control

Maintenance

About

Network

1

DHCP

IPv4 Address

192.168.4.97

IPv4 Netmask

255.255.255.0

Gateway

192.168.4.254

DNS

192.168.1.211

MAC Address

dc:e2:ac:04:3c:06

2

HTTP Port

80

3

HTTPS Port

81

Apply

Cancel

5.2.8 System – Date & Time

Live View

Audio

Stream

System

Output

Network

Date & Time

User

Date & Time

Current Date & Time

2025-07-15 13:58:20

PC Clock

2025-07-15 13:58:21

Date & Time Format

yyyy-mm-dd hh:mm:ss

Time Setting

Synchronize with PC

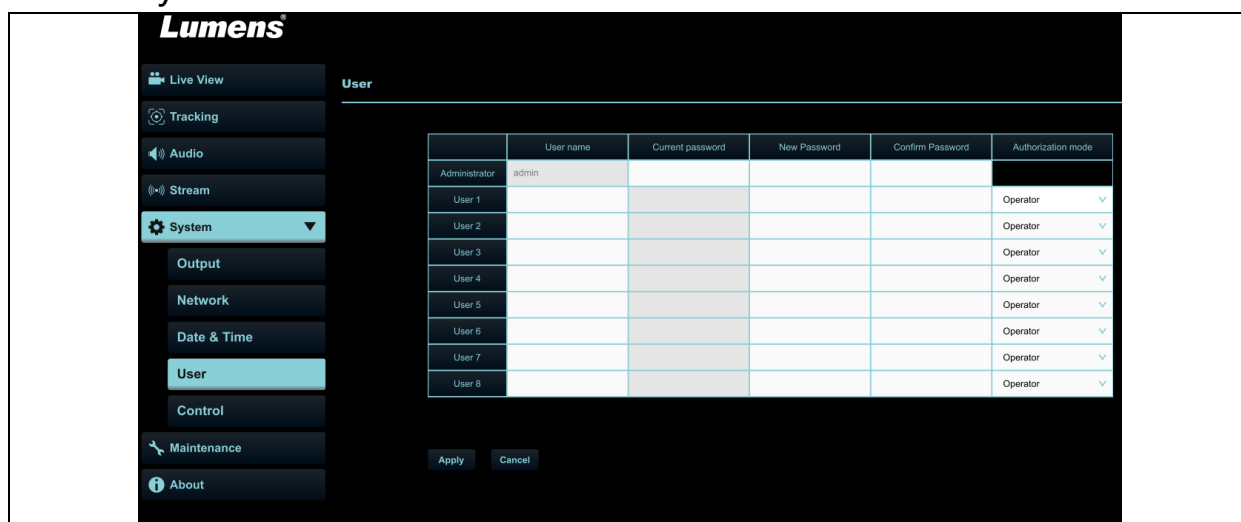
Apply

Cancel

Function Descriptions

Display the current camera/PC date and time, and set the display format and synchronization way
When Manually Set is selected for [Time Settings], Date & Time can be customized

5.2.9 System – User



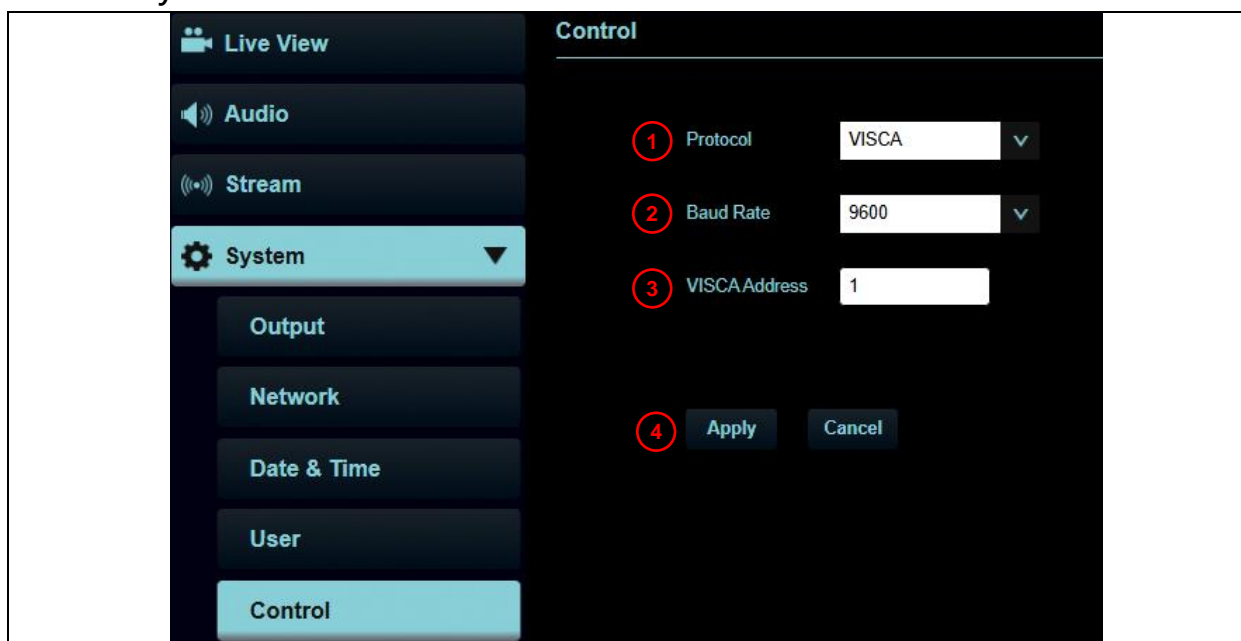
Function Descriptions

Add/Modify/Delete user account

- Supporting 4 - 32 characters for user name and password
- Please use English letters or numbers. Special symbols cannot be used.
- Authentication Mode: Set the new account management permissions

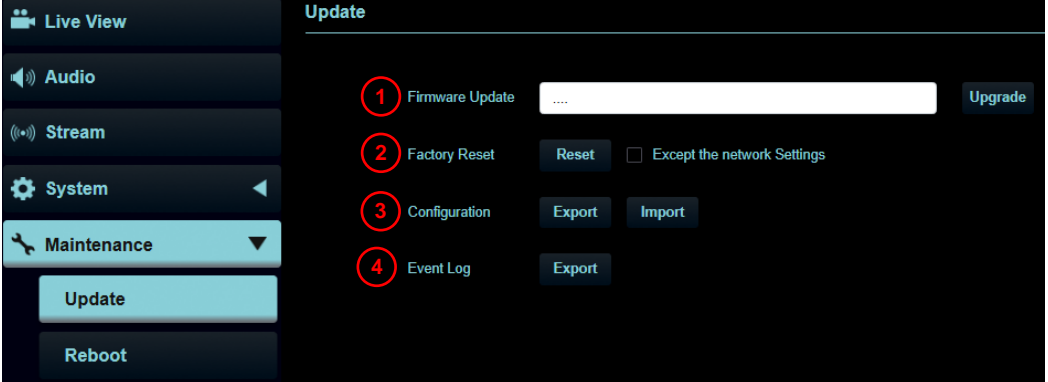
User Type	Administrator (Admin)	Operator (Operator)	Viewer (Viewer)
View images	V	V	V
Settings	V	V	X
Account management	V	X	X

5.2.10 System – Control

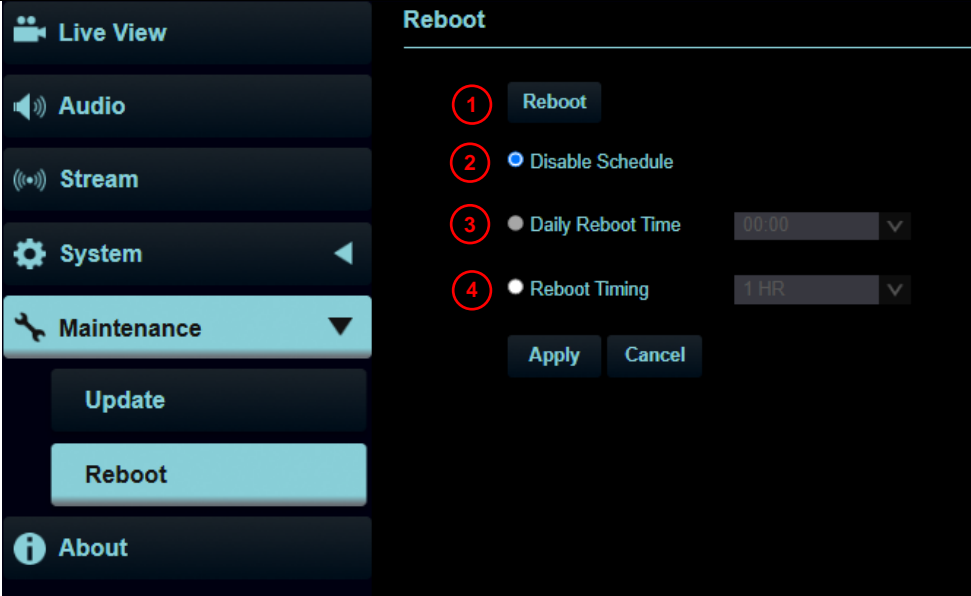


No	Item	Function Descriptions
1	Protocol	Supporting VISCA protocol
2	Baud Rate	Choose the transmission speed of the control signal as 9600/38400
3	VISCA address	The ID address 1~7 can be assigned. Select 0 for automation
4	Apply/Cancel	Apply/Cancel Setting

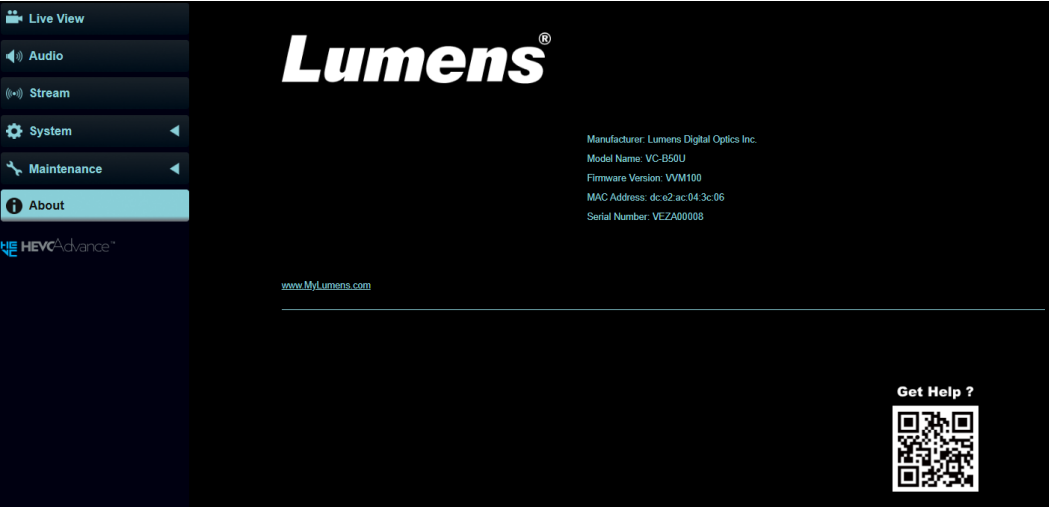
5.2.11 Maintenance - Update

		
No	Item	Function Descriptions
1	Firmware Upgrade	<p>Select the firmware file, and click [Upgrade] to update the firmware.</p> <p>Note</p> <ul style="list-style-type: none"> ■ Update takes about 2-3 minutes. ■ Please do not operate or turn off the power of the device during the update to avoid firmware update failure.
2	Factory Reset	<ul style="list-style-type: none"> ■ Reset all configurations to factory default settings ■ Except the Network Setting after reset
3	System Settings	Save setup parameters as a Profile, and users can download and upload camera setup parameters
4	Error Log	If the camera operates abnormally, please export error log and provide it to Lumens for confirmation

5.2.12 Maintenance - Reboot

		
No	Item	Function Descriptions
1	Reboot	Conduct the reboot immediately.
2	Disable Schedule	Reboot schedule will not be executed.
3	Daily Reboot Time	<p>Choose the desired exact time for the camera to reboot.</p> <p>Note Can only be configured when SNTP is on</p>
4	Reboot Timing	Choose how many hours later the camera will reboot: 1-24HR.

5.2.13 About


Function Descriptions
<p>Display the firmware version, serial number, and other related information of the camera</p> <p>For technical support, please scan the QRcode at the bottom right.</p>

Chapter 6 Troubleshooting

This chapter describes problems you may encounter while using VC-B50U. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurred, please contact your distributors 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 (IEEE802.3af) hubs
2.	There is no image output from camera	1. Check the power supply or PoE supply functions. 2. Confirm the output signals are in streaming output. 3. Confirm whether the camera resolution can be used together with the monitor equipment 4. Replace the cables and make sure they are not faulty.
3.	Camera 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 5 Network Function Setting Description for the Internet usage
6.	The ONVIF software cannot find the machine	Please make sure that [System] > [Output] > [Camera ID] / [Location] in the web page uses only English letters or numbers. The ONVIF software cannot find the machine if you use special characters and space.
7.	The camera does not save the relevant parameters (PTZ, AWB ...) after reboot	Please make sure if the Initial Position is set to Last MEM from the setting menu or web page 1. Setting Menu: System - Initial Position 2. Web page: Live View-Setting-Camera Setting - PTZ - Initial Position
8.	How to log in the portal when you forget your account password	Please contact your Lumens distributor or service center

Chapter 7 Safety Instructions

Always follow these safety instructions when setting up and using the Document 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 numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe A prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques," NMB-003 édictée par l'Industrie.

■ **EN55032 CE Warning**

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

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