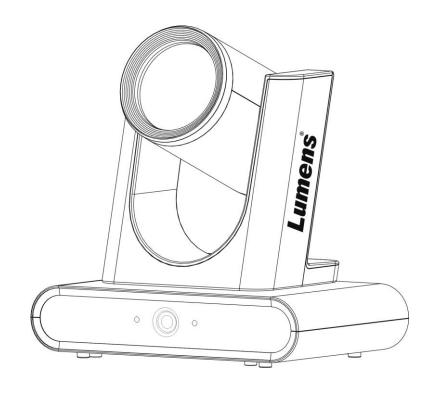
## VC-TR40

## **Auto Tracking Camera**

(PTZ Video Camera)

## **User Manual - English**



Version VXA100

### [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



## **Table of Contents**

Chapter 1 Package Contents	2
Chapter 2 Product appearance	3
2.1 I/O functions Introduction	3
2.2 Description of LED indicator	3
Chapter 3 Instruction for installation	4
3.2 Preparation before installation	4
3.3 Instruction for installation	4
3.4 Connecting devices	7
Chapter 4 Remote Control and Setting Menu	9
4.1 Remote Control	9
4.2 Setting Menu	10
Chapter 5 Network Function Settings Description	13
5.1 onnecting Camera to Network	13
5.2 Web Page Menu Function Description	15
Chapter 6 Troubleshooting	31
Chapter 7 Safety Instructions	32
Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information	33
Copyright Information	34



## **Chapter 1** Package Contents

Camera

Quick Installation Guide RS-232/RS-422 Connection Instruction





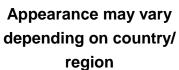


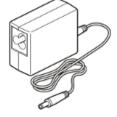
**Power Cord** 

**Power Adapter** 

3-PIN to 2-PIN connector









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

HDMI cable - 1.5 M

**Remote Control** 

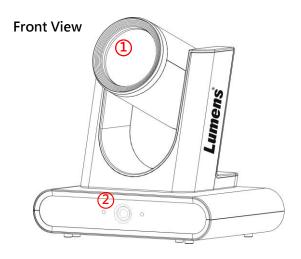


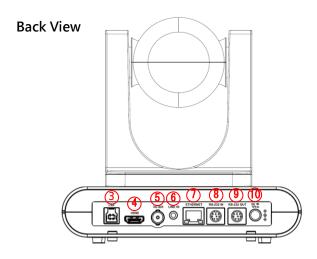




## **Chapter 2** Product appearance

## 2.1 I/O functions Introduction





NO.	Item	Function Descriptions
1.	Main camera lens	18X HD camera lens
2.	Panoramic lens	Panoramic camera lens
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	Orange light	Green light
In use	Green light	No indicator
In standby mode	No indicator	Orange light
Tracking / Framing mode	Flickering green light	Flickering green light

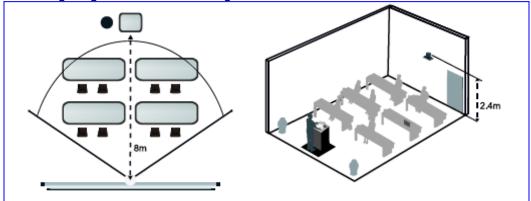


### **Chapter 3** Instruction for installation

#### 3.1.1 Scenario

3.1.2 Applicable distance range of VC-TR40: 2 - 15 m, best tracking target distance recommended: 8 m

3.1.3 Mounting height: 2 - 3 m, best height recommended: 2.4 m



<Note> For maintaining the best tracking results, please avoid images of people on posters, screens, monitors, TVs in the background

#### 3.2 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.

- **3.2.1** 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.
- **3.2.2** 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.
- **3.2.3** Please choose a proper place for installation of camera in advance. Please determine an installation place according to the following requirements
- 3.2.3.1 Confirm the position for the object to be captured.
- 3.2.3.2 Confirm whether the camera is set at a proper distance from other light sources.

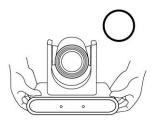
#### 3.3 Instruction for installation

- 3.3.1 I would like to install camera on the desk
- 3.3.1.1 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









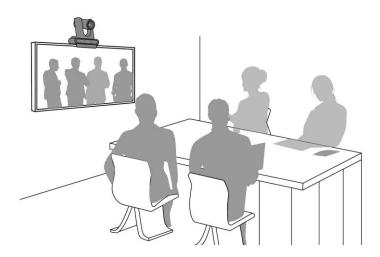


#### 3.3.2 I would like to install the camera on the ceiling/wall/TV stand

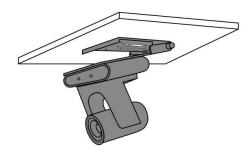
Lumens can provide the following optional accessories. Please contact your Lumens distributer if needed for purchase

- VC-WM14 3 in 1 Folding Bracket
- VC-WM15 Ceiling Mounted Bracket
   For installation of brackets, please download <u>VC-WM14/VC-WM15 Quick Installation Guide</u> from the Lumens website

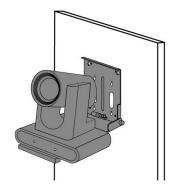
#### ♦ Install on the TV



#### ♦ Install on the ceiling

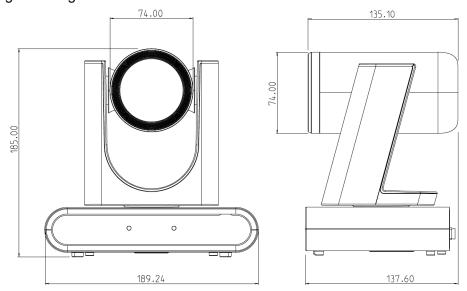


#### ♦ Install on the wall



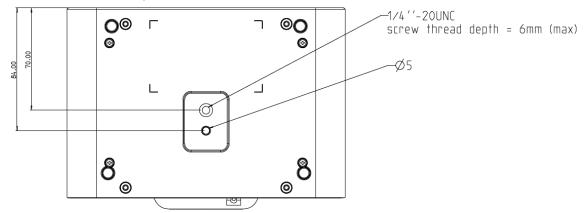
#### 3.3.3 Camera Size

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



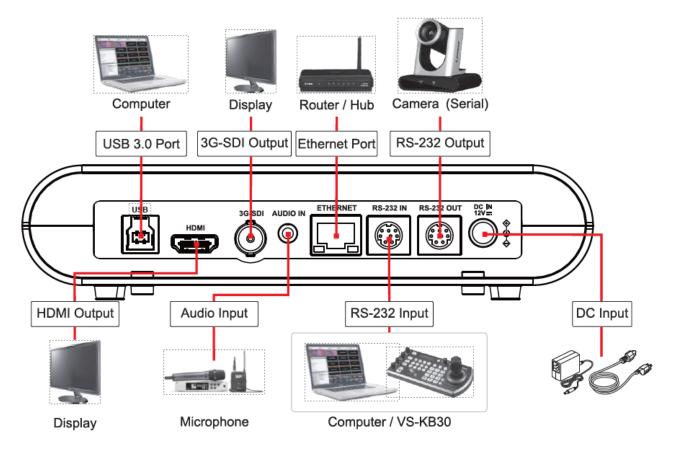
#### 3.3.4 Dimensions of the bottom of the machine

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



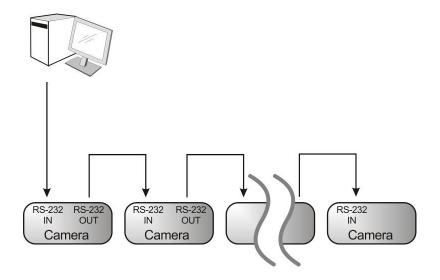


### 3.4 Connecting devices



<Remark> Network cable port, supporting PoE (IEEE802.3af) power supply

#### **3.4.1** 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 Connection Instructions**

RS-232 IN of VC	RS-232 of PC
1. DTR 🔪	1. CD
2. DSR 🔌	→ 2. RXD
3. TXD	3. TXD
4. GND 💙	4. DTR
5. RXD	5. GND
6. GND	* 6. DSR
7. IR OUT	7. RTS
8. N.C.	8. CTS
	9. RI

#### **▼ 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 IN of Next Camera	RS-232 OUT of Last Camera
1. DTR -	1. DTR
2. DSR -	2. DSR
3. TXD	3. TXD
4. GND	← 4. GND  — 4. GND
5. RXD	5. RXD
6. GND	6. GND
7. IR OUT	7. OPEN
8. N.C.	8. OPEN



## **Chapter 4** Remote Control and Setting Menu

#### 4.1 Remote Control 編號 項目 說明 **Power Switch** 1. Power ■ Numeric Keys 0 - 9: Click to call the preset ■ Preset: Appoint an ID (0 ~ 9) to save the current position data 2. Preset ■ Reset: Appoint an ID (0 ~ 9) to delete the current position data 3. Display OSD menu Menu ■ Pan/Tilt: Move the lens ■ Home-Enter: Go back to the main page / Pan/Tilt/Enter 4. **Execute** Status information 5. Info ■ Fast: Adjust image size 6. Zoom ■ Slow: Fine-tune image size ■ Auto: Auto focus ■ Manual: Enable Manual Focus 7. Focus ■ Far/Near: Adjust the focal length in Manual ■ On/Off: Enable/Disable Auto Tracking 1 ■ Full: Full body tracking 8. **Auto Tracking** ■ Upper: Half body tracking ■ Switch: Switch tracking object L/R Direction / Normal 9. L/R Direction Set 10. Mirror Rotate the image (OFF / Mirror / Flip / Rotate) Choose Camera ID 1 ~ 3 11. Camera select Turn on/off back light compensation 12. Back Light Clear the Pan/Tilt setting 13. Pan/Tilt Reset ■ On/Off: Enable/Disable auto framing 14. Auto Framing ■ Trigger: Manual framing correction



## 4.2 Setting Menu

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

1st Level	2nd Level	3rd	Level	Function Decembring
Major Items	Minor Items	Adjustme	ent Values	Function Descriptions
-	Mode	Full Auto/ Sh		Exposure mode setting
	Exposure Comp.	On/ <b>Off</b>	Villo Board	Turn on/off Exposure Comp.
	Exposure Comp. Level	-6~ <b>C</b> ~4		Adjustable after <i>Exposure Comp.</i> is activated
	Spot Light	On/ <u>Off</u>		Turn on/off Spot Light
Exposure	Spot Light Position	X(0~6)Y(0~4)		Adjustable after <b>Spot Light</b> is activated
	Shutter Speed	60/30mode	50/25mode	Adjustable when the <i>Exposure mode</i> is set to <i>Shutter Pri</i> or <i>Manual</i>
	Iris Level	1/10000~1/25 F1.6~ <b>C</b> ~F14/		Adjustable when the <i>Exposure mode</i> is set to <i>IRIS Pri</i> or <i>Manual</i>
	Gain Limit	8~ <b>30</b> dB		Max. limit value of electron gain
	Gain Level	<u>o</u> ~30dB		Adjustable when the <i>Exposure mode</i> is set to <i>Manual</i>
	WDR	Off/ 1/ 2/ 3		WDR settings
White Balance	Mode	1.Auto 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	ENTER	· <del>-</del>	One push trigger
	Manual Red	0~ <u>C</u> ~127		Adjustable when the white balance mode is set to <i>Manual</i>
	Manual Blue	0~ <u><b>C</b></u> ~127		Adjustable when the white balance mode is set to <i>Manual</i>
Tracking	Туре	Auto Tracking Framing	<b>g</b> / Auto	
	2D NR	Off/ <u>1</u> / 2/ 3		2D noise reduction
	3D NR	Off/ Low/ Typ/	/ Max	3D noise reduction
	Image Mode	Default/ Custo	om	The user may customize his/her desired image mode
	Brightness	0~ <u><b>A</b></u> ~15		Adjustable when the <i>Image Mode</i> is set to <i>Custom</i>
Picture	Hue	0~ <u>A</u> ~15		Adjustable when the <i>Image Mode</i> is set to <i>Custom</i>
	Saturation	0~ <u><b>A</b></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 Mode</i> is set to <i>Custom</i>
	Sharpness	0~ <u><b>A</b></u> ~14		Adjustable when the <i>Image Mode</i> is set to <i>Custom</i>
Pan Tilt	Pan/Tilt Limit	On/ <u>Off</u>		Turn on/off the angle limit setting  Limit the right angle
	Pan Right Limit	0~ <b>170</b>		Limit the right dright

1st Level	2nd Level	3rd Level	_ ,, _ ,,
Major Items	Minor Items	Adjustment Values	Function Descriptions
Zoom	Pan Left Limit	<b>-170</b> ~0	Limit the left angle
Tilt UP Limit		0~ <b>90</b>	Limit the upward angle
	Tilt Down Limit	<b>-30</b> ~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/ <b>120</b> 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><b>x1</b></u> ~x12	Set the D-zoom limit
D-Effect	Mirror	Off/ Mirror/ Flip/ Mirror+Flip	Set the mode at which the image is turned
	AF Sensitivity	Low/ Middle/ High	For AF triggering speed, the higher the sensitivity is, the faster AF is triggered
Auto Focus	AF Frame	Center/ Full Frame/ Auto	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
	DHCP	On/Off	Enable/Disable the dynamic host configuration
Ethornot	IP Address	192.168.100.100	
Ethernet	Subnet mask	<u>255.255.255.0</u>	Configurable when <b>DHCP</b> is set to <b>Off</b>
	Gateway	192.168.100.254	
	Audio Enable	On/ <u>Off</u>	Turn on/off audio output
	Audio In	Line In/ Mic In	
	Audio Volume	0~ <u><b>A</b></u> ~10	Volume Setting
Audio	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	48 KHz(AAC)	Set the encode type and sample rate
	Prompt	On/ <u>Off</u>	Turn on/off the prompt information on the display
System	IR Receive	<u>On</u> /Off	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



1st Level	2nd Level	3rd Level	Function Descriptions	
Major Items	Minor Items	Adjustment Values	·	
	Language	<u>English</u>		
	Initial Position	Last MEM/ 1st Preset	After turning on the camera, you can select the lens to be returned to <u>Last</u> <u>MEM</u> or 1st Preset <remark> 1st Preset = Preset 0</remark>	
	Motionless Preset	On/ <u>Off</u>	When the function is enabled, the screen will Freeze when <i>Preset</i> is executed. Freeze will be released after <i>Preset</i> is completed	
	Privacy Mode	On/ <b>Off</b>	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	VISCA	Supporting VISCA protocol	
	Baud Rate	<u><b>9600</b></u> /38400	Choose the transmission speed of the control signal	
	VISCA Address	1~7	The camera ID address can be assigned. Select 0 for automation.	
	Output Mode	1080p 60/50/30/25 720p 60/50/	Choose the output resolution	
	Factory Reset)	On/ <u>Off</u>	Resume the factory default setting	
Status	_	_	Display the current setting status	



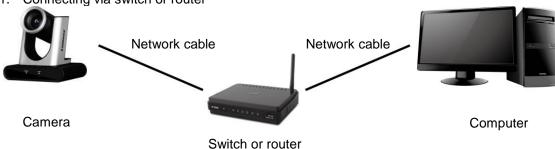
## **Chapter 5** Network Function Settings Description

#### **5.1 Connecting Camera to Network**

#### 5.1.1 Connecting to Internet

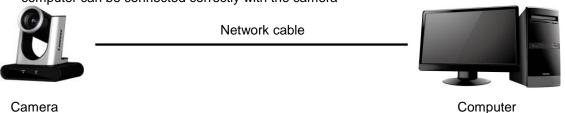
Two common connection methods are shown below

1. Connecting via switch or router

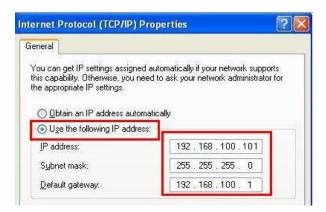


2. To connect directly through network cable, the IP address of the computer should be changed so that it is on the same network segment as the camera

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

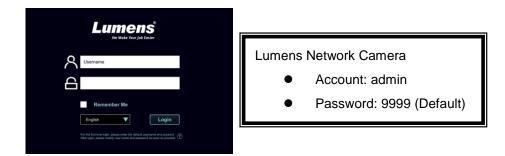


#### 5.1.2 Using the Browser to View the Images

- Open the browser, and enter the IP address of the camera in the address bar E.g.: <a href="http://192.168.100.100">http://192.168.100.100</a> (default IP address)
- Enter administrator's account and password

<Remark> For the first-time login, please refer to <u>5.2.10System Settings - User</u> to change the default password





#### 5.1.3 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:

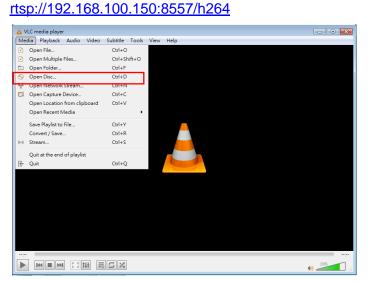
- RTSP Sub1 Streaming => rtsp://camera IP:8557/h264
- RTSP Sub2 Streaming => rtsp://camera IP:8556/h264

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 <u>5.2.8 System Setting Network</u>

#### **Example:**

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







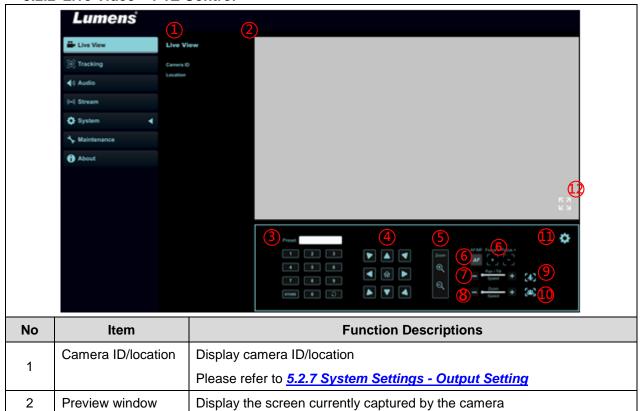
### 5.2 Web Page Menu Function Description

### 5.2.1 Login Screen



No	Item	Function Descriptions	
1	User Login Account	Enter user login account (default: admin)	
		Enter user password (default: 9999)	
2	User Password	<remark> For the first-time login, please refer to <u>5.2.10 System</u></remark>	
		Settings - User to change the default password	
Remember user Save user login account and password to the browser. Wh		Save user login account and password to the browser. When you log in	
3	account and password	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	

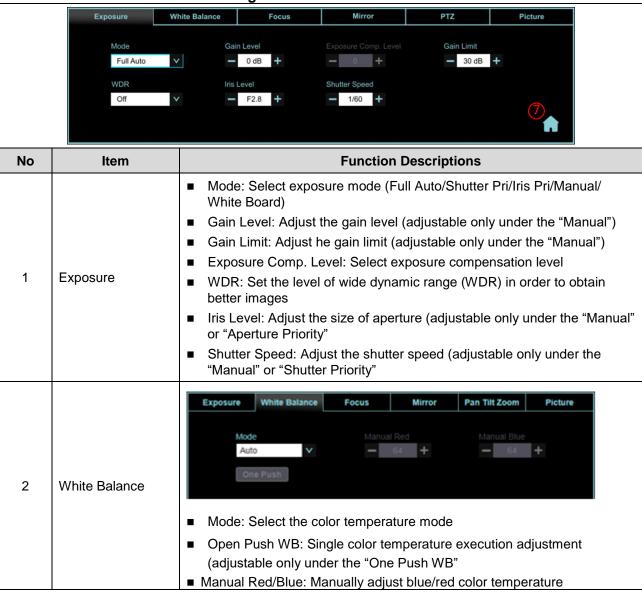
#### 5.2.2 Live Video - PTZ Control



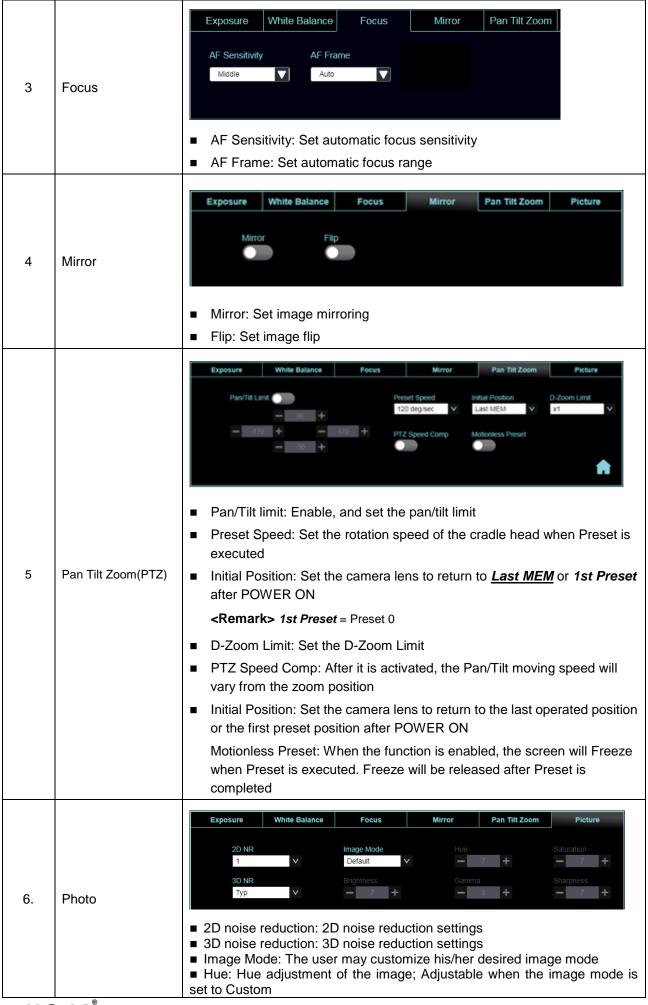


3	Preset setting	Select the number first and then select SAVE or LOAD
4	Pan/Tilt setting	Adjust the Pan/Tilt position of the camera screen
5	Zoom	Zoom In/Zoom Out ratio
6	AF/MF	Switch AF/MF
7	Pan/ Tilt Speed	Adjust the horizontal/vertical moving speed of the lens
8	Zoom speed	Adjust the zoom speed
9	Auto Tracking	Enable/Disable Auto Tracking
10	Auto Framing	Enable/Disable Auto Framing
11	Camera Setting	Please refer to <u>5.2.3 Live Video - Camera Setting</u> for related settings
10	Enlarge the preview	Zeeming in/out the previous image
12 window		Zooming in/out the preview image

#### 5.2.3 Live Video - Camera Setting



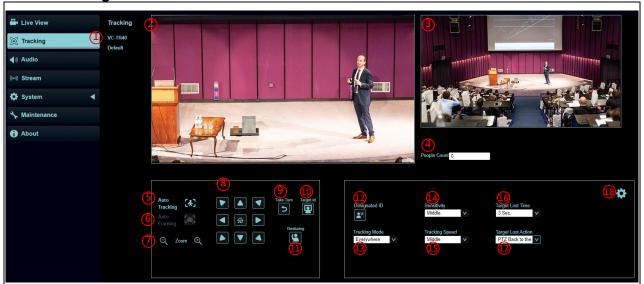




		<ul> <li>Saturation: Saturation adjustment of the image; Adjustable when the image mode is set to Custom</li> <li>Brightness: Brightness adjustment of the image; Adjustable when the image mode is set to Custom</li> <li>Gamma: Gamma Level adjustment; Adjustable when the image mode is set to Custom</li> <li>Sharpness: Sharpness adjustment of the image; Adjustable when the image mode is set to Custom</li> </ul>
7	PTZ Control	Go back to PTZ Control page

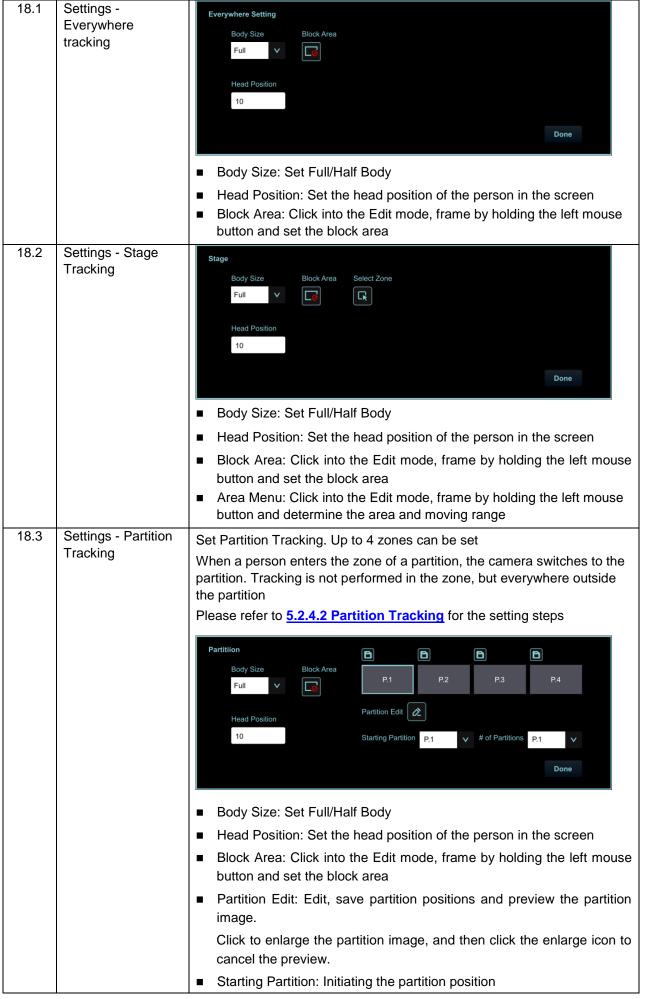


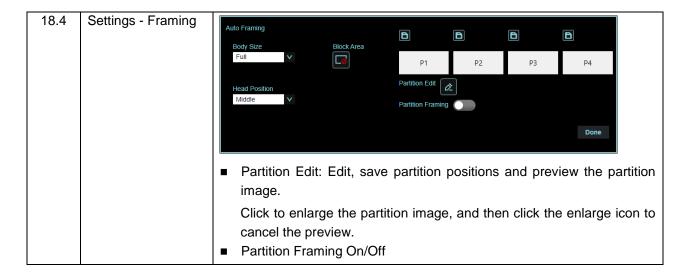
#### 5.2.4 Tracking



No	Item	Function Descriptions	
4	Camera ID/location	Please refer to <u>5.2.7 System Settings - Output Setting</u> to display	
1		camera ID/location	
	Preview main	Display the screen currently captured by the main camera lens	
2	window	<remark> Left-click the detected person in the screen to switch the</remark>	
		tracking object. The tracking object is depicted with a green bounding box	
Panoramic preview window Display the screen currently captured by the panoramic lens		Display the screen currently captured by the panoramic lens	
4	People Count	Display the number of people in the screen automatically calculated by the	
		system	
5	Auto Tracking	Start/Stop Auto Tracking	
5	Auto Tracking	<pre><remark> Auto Tracking / Auto Framing (Select one only)</remark></pre>	
6	Auto Framina	Start/Stop Auto Framing  Start/Stop Auto Framing	
0	Auto Framing	The camera will automatically detect the locations of people, and	
		automatically adjust the zoom to the most appropriate size to	
		accommodate all the participants according to change of the number of	
		, , ,	
	people in conference <b>Remark&gt;</b> Auto Tracking / Auto Framing (Select one only)		
7	Zoom ratio	Zoom In/Zoom Out ratio	
8	Pan/Tilt setting	Adjust the Pan/Tilt position of the camera screen	
	1 driving	Remark> When Auto Tracking / Auto Framing is enabled, PTZ settings	
		are not supported	
9	• • • • • • • • • • • • • • • • • • • •		
		pressed	
10	Target Id	Display Target Id	
11			
		Press it again to turn off the function	
12	Designated ID	Press it to activate this function. You can switch the ID by clicking the	
	J	targeted frame with the mouse. Press it again to turn off the function	
13	Tracking Mode	Set the Tracking Mode (Everywhere Tracking/Stage Tracking/Partition	
Tracking/Framing)			
14	Sensitivity	Set tracking sensitivity	
15	Tracking Speed	Set tracking speed	
16	Target Lost Time	Set a delay for taking action after a tracking object is lost	
17	Target Lost Action	Set the action after a tracking object is lost	
18	People Count	VC-TR40 supports 4 kinds of tracking mode	





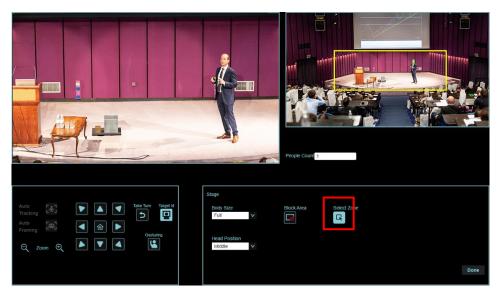


#### 5.2.4.1 Stage

1. Select [Stage] for Tracking Mode, and click to access the settings



2. Select Select Zone to enter Edit mode, and click the left mouse button to frame it (yellow frame) in the panoramic preview window, determine the area and moving range. After framing, use the mouse to click the frame line to move or delete it.





3. Select to click the left mouse button to frame it (red frame) in the panoramic preview window, and set the block area



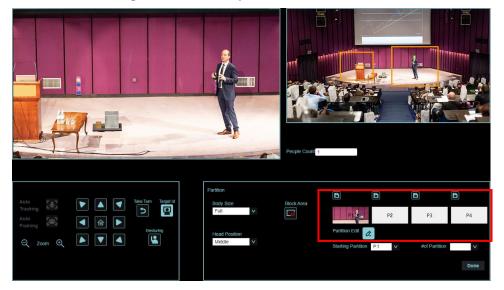
- 4. After framing, click Done for setting
- 5. Click to enable the Stage feature

#### 5.2.4.2 Partition

1. Select [Partition] for Tracking Mode, and click to access the settings

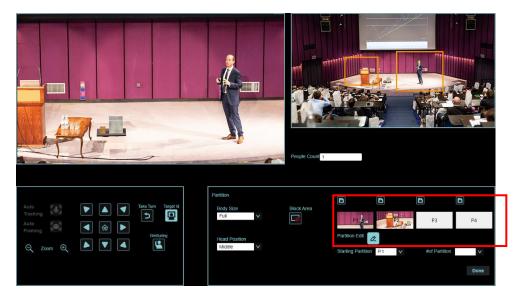


2. Click to enable the Partition edit, click the left mouse button to frame it (orange frame) in the panoramic preview window, determine the area and click to save. The partition icon below will be changed to the saved position

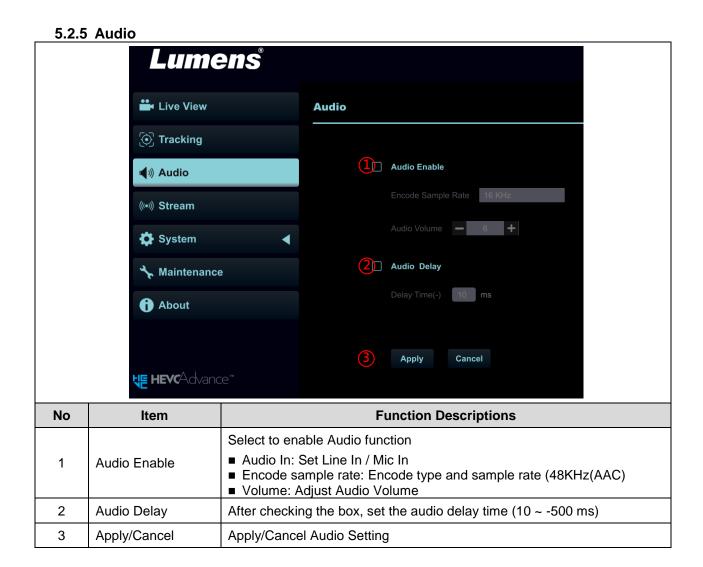


3. If you need to set other partitions, please continue framing, and then click to save

<Remark> Overlapping partition positions may cause abnormal tracking behavior

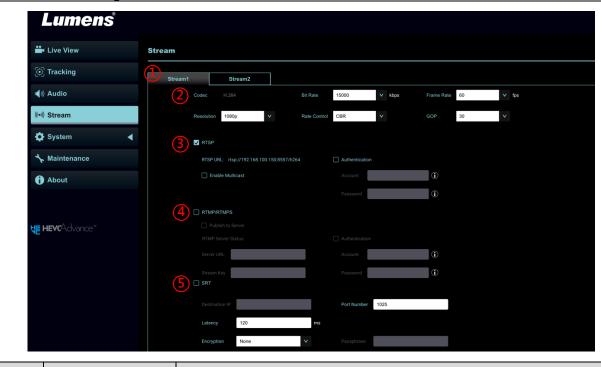


6. Click to enable the Partition feature





#### 5.2.6 Streaming



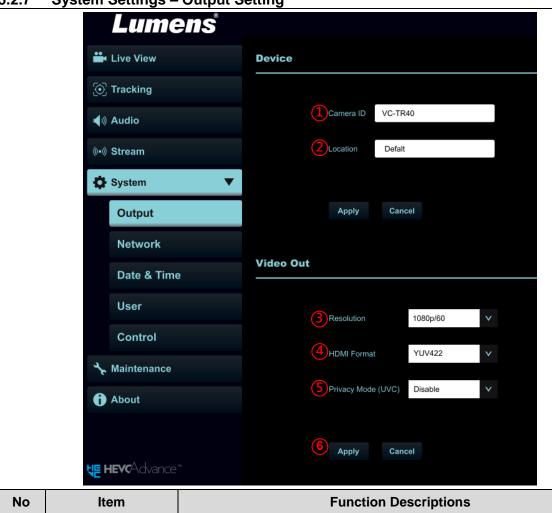
No	Item	Function Descriptions	
	Streaming 1/		
1	Streaming 2	Supporting 2-way streaming output	
2	Streaming parameter setting	Please refer to <u>5.2.6.1 Streaming Parameter Setting</u> for relevant settings	
		Select to enable RTSP	
		■ Enable/Disable Multicast	
		It is suggested to enable Multicast when the number of users online	
		watching the live image simultaneously is more than 4	
3	RTSP	■ Enable/Disable Password Authentication	
		> 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 password of	
		the camera, please refer to <u>5.2.10 System Settings - User</u> to	
	RTMP/ RTMPS  SRT	add/modify account information  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	
4		the RTMP service platform	
		■ To upload to YouTube for live streaming, please refer to <u>5.2.5 Audio</u> to turn on the audio function	
		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	
5		value of 9999	
		<remark> The following port is to be used by the camera. Setting of the said part may not connect correctly \$554, \$556, \$557</remark>	
		the said port may not connect correctly 8554, 8556, 8557, 8080, 9090, 1935	
		■ Delay time is for 20 to 8000 microseconds. The default value is 120	
		microseconds	



5.2.6.1 Streaming parameter setting

Fun	ction	Streaming 1	Streaming 2
Encode Format		H.264	
Res	olution	1080p / 720p	720p
	Range	2,000~20,000	2,000~20,000
Bit rate	Factory		2 000
	Default	7,000	3,000
Rate Control		CBR / VBR	
Frame Rate		Setting according to the supported resolution	
Group of Pictures		Setting according to the supported resolution	

5.2.7 System Settings – Output Setting

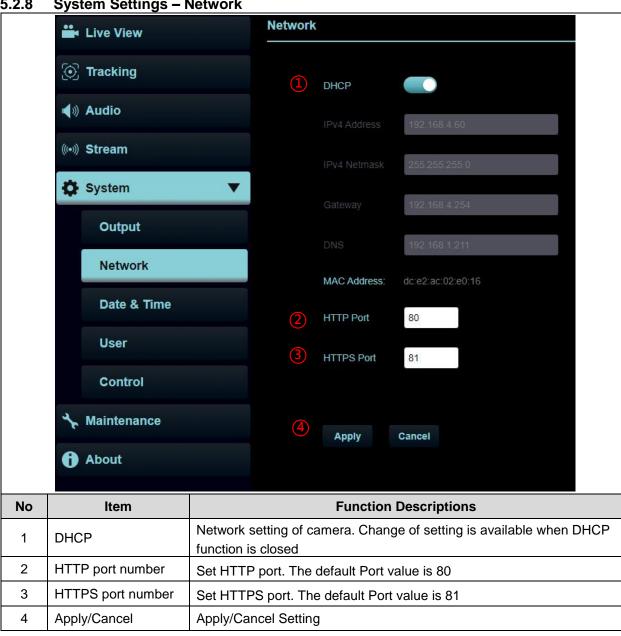


No	Item	Function Descriptions	
	Camera name	Change camera name here	
1		<ul> <li>Supporting 1 - 15 characters for the camera name</li> <li>Please mix uppercase and lowercase letters or numbers for</li> </ul>	
		characters. Special symbols such as "I" and "space" cannot be used	
		<remark> Modifying this field will modify the Onvif device name synchronously</remark>	
		Modify the location of the camera, such as Room 1	
	Camera Location	■ Supporting 1 -30 characters for the camera location	
2		■ Please mix uppercase and lowercase letters or numbers for	
		characters. Special symbols such as "/" and "space" cannot be used	
		<remark> Modifying this field will modify the Onvif device location synchronously</remark>	
		Set the resolution of the camera	
3	Resolution	After switching the resolution, the camera will restart. Please refresh the	
		browser	



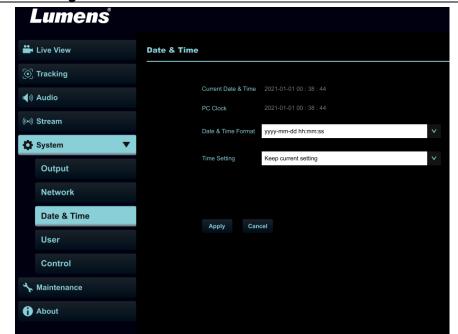
4	HDMI format Select YUV444/RGB		
5	Privacy Mode  (UVC)  Enable/Cancel Privacy Mode  After the function is enabled, when the camera is turned off via the remote control or software, the lens will automatically turn to the bot right to ensure the user's privacy		
6	Apply/Cancel	Apply/Cancel Setting	

System Settings - Network 5.2.8





#### 5.2.9 System Settings - Date & Time



#### **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

#### 5.2.10 System Settings – User



#### **Function Descriptions**

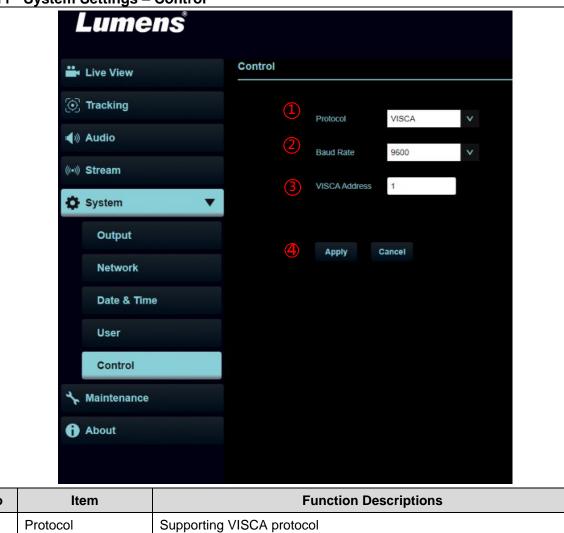
Add/Modify/Delete user account

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

Hoor Type	Administrator	Operator	Viewer
User Type	(Admin)	(Operator)	(Viewer)
View images	V	V	V
Settings	V	V	х
Account management	V	Х	х

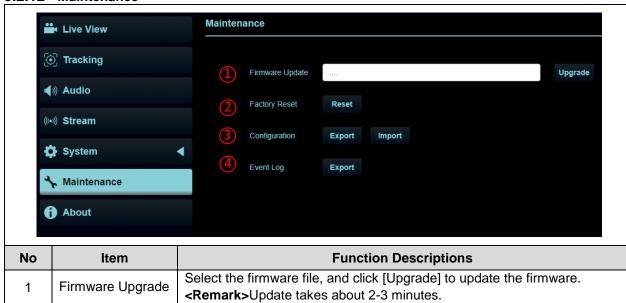


### 5.2.11 System Settings - Control



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 camera ID address 1 ~ 7 can be assigned. Select 0 for automation	
4	Apply/Cancel	Apply/Cancel Setting	

#### 5.2.12 Maintenance





	<remark> Please do not operate o-r turn off the power of the develocity during the update to avoid firmware update failure.</remark>	
2	2 Factory Reset Reset all configurations to factory default settings	
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

#### 5.2.13 About



#### **Function Descriptions**

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



## **Chapter 6** Troubleshooting

This chapter describes problems you may encounter while using VC-TR40. 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	<ol> <li>Check the power supply or PoE supply functions.</li> <li>Confirm the output signals are in streaming output.</li> <li>Confirm whether the camera resolution can be used together with the monitor equipment</li> <li>Replace the cables and make sure they are not faulty.</li> </ol>
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 [Setting] > [Video] > [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.	VC-TR40 cannot be operated by remote control	<ol> <li>Please make sure the IR Select setting in the camera menu is the same setting as the Camera Select of the remote control</li> <li>Please try to replace the batteries of the remote control</li> <li>Please prevent VC-TR40 from direct sunshine</li> <li>Make sure the energy-saving bulb and the IR touch screen are as far as possible in order to avoid interference</li> <li>When several VC-TR40 are connected in the same area, the operation of two remote controls at the same time may result in signal interference. It is recommended to use one remote control only</li> </ol>
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 VC-TR40 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 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 USB port becomes 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 mount you use 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 this product during thunderstorms or if it is not going to be used for an extended period.
- 3.3 Do not place this 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.

#### 5 Batteries (for products or accessories with batteries)

- 5.1 When replacing batteries, please only use similar or the same type of batteries.
- 5.2 When disposing of batteries or products, please adhere to the relevant instructions in your country or region for disposing of batteries or products.

#### ■ 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.



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

#### ■ 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.

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.

#### 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. Warning: Operation of this equipment in a residential environment may cause radio interference



# **Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information**

Manufacturer: Lumens Digital Optics Inc.

**Product Name: VC-TR40** 

**Model Number: PTZ Video Camera** 

#### Responsible Party – U.S. Contact Information

Supplier: Lumens Integration, Inc.

4116 Clipper Court, Fremont, CA 94538, United States

e-mail: support@mylumens.com

#### **FCC Compliance Statement**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



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