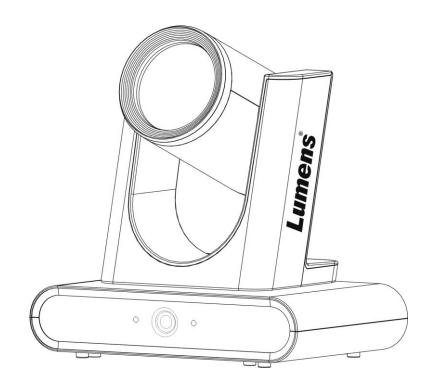
VC-TR40

Auto Tracking 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 <u>https://www.MyLumens.com/support</u>



Table of Contents

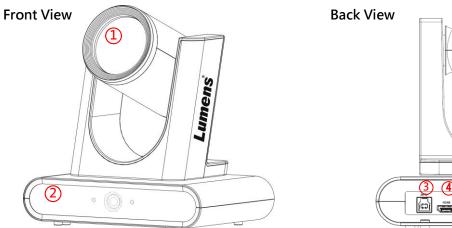
Chapter 1 Package Contents Chapter 2 Product appearance	
2.1 I/O functions Introduction	3
2.2 Description of LED indicator	3
Chapter 3Instruction for installation	4
3.2 Preparation before installation	4
3.3 Instruction for installation	4
3.4 Connecting devices	7
Chapter 4 Remote Control and Setting Menu	9
4.1 Remote Control	9
4.2 Setting Menu	10
Chapter 5 Network Function Settings Description	.13
5.1 Connecting Camera to Network	13
5.2 Web Page Menu Function Description	15
Chapter 6 Troubleshooting Chapter 7 Safety Instructions Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information	.30
Copyright Information	

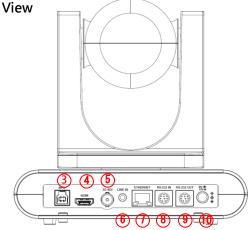
Camera	Quick Installation Guide	RS-232/RS-422 Connection Instruction
Power Cord	Power Adapter	3-PIN to 2-PIN connector
Appearance may vary depending on country/ region		(For Japan only)
USB 3.0 cable - 2 M (Type B to Type A)	HDMI cable - 1.5 M	Remote Control
<u> </u>		



Chapter 2 Product appearance

2.1 I/O functions Introduction





NO.	ltem	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

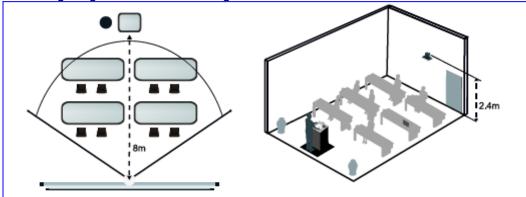
Status	Power	Standby
Startup in progress	Orange light	Green light
In use	Green light	No indicator
In standby mode	No indicator	Orange light
Tracking / Framing mode	Flickering green light	Flickering green light



Chapter 3 Instruction for installation

3.1.1 Scenario

- **3.1.2** Applicable distance range of VC-TR40: 4 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

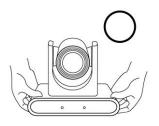
3.3.1 I would like to install camera on the desk

- 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







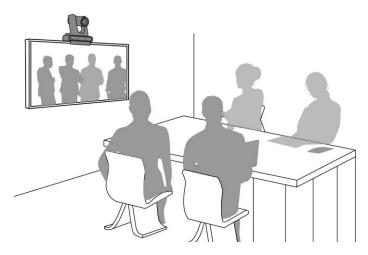




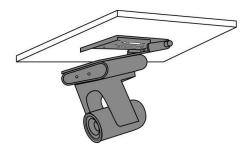
3.3.2 I would like to install the camera on the ceiling/wall/TV stand

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

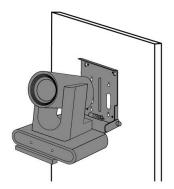
- VC-WM14 3 in 1 Folding Bracket
- VC-WM15 Ceiling Mounted Bracket For installation of brackets, please download <u>VC-WM14/VC-WM15 Quick Installation Guide</u> from the Lumens website
- Install on the TV



Install on the ceiling



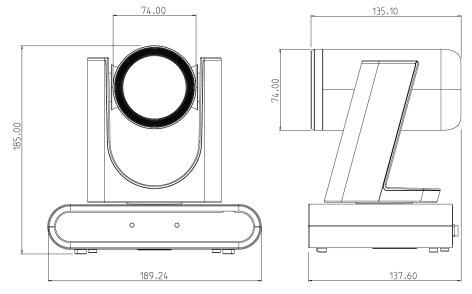
Install on the wall



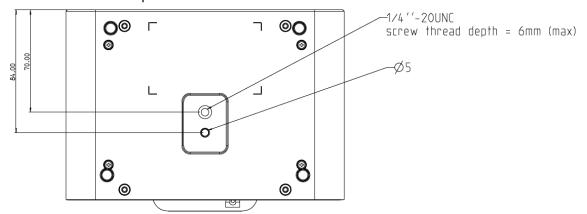


3.3.3 Camera Size

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

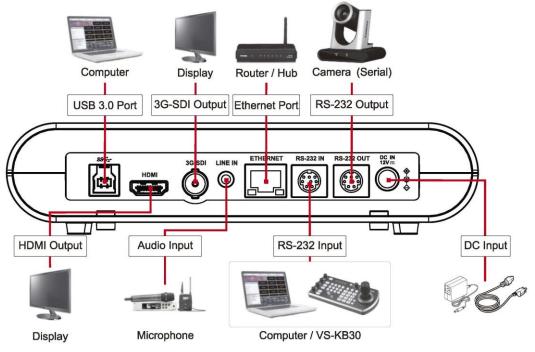


3.3.4 Dimensions of the bottom of the machine The camera can be mounted on a 1/4"-20 UNC PTZ tripod deck by using the lock holes on the bottom for the tripod



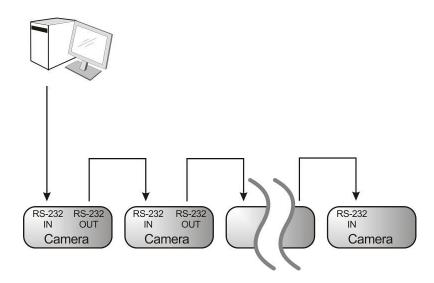


3.4 Connecting devices



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

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





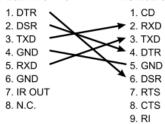
RS-232 pins definition instructions

▼ RS-232 IN Pins Instructions

	NO	Pins	Signals
\frown	1	DTR	Data Transmission Reade
876	2	DSR	Data Set Reade
(543)	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

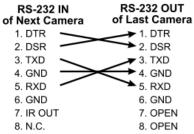
RS-232 IN of VC RS-232 of PC



RS-232 OUT Pins Instructions

	NO	Pins	Signals
	1	DTR	Data Transmission Reade
876	2	DSR	Data Set Reade
(5 43)	3	TXD	Transmit Data
	4	GND	Ground
	5	RXD	Receive Data
	6	GND	Ground
	7	OPEN	Reserved
	8	OPEN	Reserved

RS-232 Connection Instructions



<u>Lumens[®]</u>

Chapter 4 Remote Control and Setting Menu

4.1 Remote Control

	編號	項目	說明
Power Camera select	1.	Power	Power Switch
	2.		Numeric Keys 0 - 9: Click to call the preset
			■ Preset: Appoint an ID (0 ~ 9) to save the
4 5 6		Preset	current position data
7 8 9 Preset Reset			■ Reset: Appoint an ID (0 ~ 9) to delete the
Manu Back Light			current position data
	3.	Menu	Display OSD menu
₽an ← ₽an►	4.		■ Pan/Tilt: Move the lens
Pan / Tilt Reset		Pan/ Tilt/ Enter	Home-Enter: Go back to the main page /
			Execute
G - Slow Fast	5.	Info	Status information
	6.	7	■ Fast: Adjust image size
Auto Far Near Manual		Zoom	Slow: Fine-tune image size
	7.		■ Auto: Auto focus
On/Off Full Upper Switch		Focus	Manual: Enable Manual Focus
			Far/Near: Adjust the focal length in Manual
Auto Framing	8.		On/Off: Enable/Disable Auto Tracking
		Auto Trooling	Full: Full body tracking
		Auto Tracking	Upper: Half body tracking
			Switch: Switch tracking object
	9.	L/R Direction Set	L/R Direction / Normal
	10.	Mirror	Rotate the image (OFF / Mirror / Flip / Rotate)
	11.	Camera select	Choose Camera ID 1 ~ 3
	12.	Back Light	Turn on/off back light compensation
	13.	Pan/Tilt Reset	Clear the Pan/Tilt setting
	14.	Auto Froming	On/Off: Enable/Disable auto framing
		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 L	evel	Function Descriptions
Major Items	Minor Items	Adjustment Values		
	Mode	<u>Full Auto</u> / Shu	itter Pri/ Iris	Exposure mode setting
	wode	Pri/ Manual/ W	hite Board	
	Exposure Comp.	On/ <u>Off</u>		Turn on/off Exposure Comp.
	Exposure Comp.	6 C 1		Adjustable after <i>Exposure Comp.</i> is
	Level	-6~ <u>C</u> ~4		activated
	Spot Light	On/ <u>Off</u>		Turn on/off Spot Light
	Spot Light	X(0~6)Y(0~4)		Adjustable after Spot Light is activate
Exposure	Position	Χ(0~0)Τ(0~4)		· ···,································
	Shutter Speed	60/30mode	50/25mode	Adjustable when the Exposure mode
	Shutter Speed	1/10000~1/25		is set to Shutter Pri or Manual
	Iris Level	F1.6~ <u>C</u> ~F14/ C	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
	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
		<u>1.Auto</u>		Select the option temperature mode
		2.Indoor		Select the color temperature mode 1. 4000k ~ 7000k 2. 3200k 3. 5800k
		3.Outdoor		
	Mode	4.One Push W	В	4. 1700k ~ 10000k
White Balance		5.ATW		5. 1700k ~ 10000k
		6.Manual		6. Custom 7. 2800k
		7.Sodium Lam	р	
One Push Trigger		ENTER		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>C</u> ~127		Adjustable when the white balance mode is set to <i>Manual</i>
Treeking	Truce	Auto Tracking / Auto		
Tracking	Туре	Framing		
	2D NR	Off/ <u>1/</u> 2/ 3		2D noise reduction
	3D NR	Off/ Low/ Typ/	Max	3D noise reduction
	Image Mode	Default/ Custo	m	The user may customize his/her desired image mode
	Brightness	0~ <u>A</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>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 Mode</i> is set to <i>Custom</i>
	Sharpness	0~ <u>A</u> ~14		Adjustable when the <i>Image Mode</i> is set to <i>Custom</i>
_	Pan/Tilt Limit	On/ <u>Off</u>		Turn on/off the angle limit setting
Pan Tilt	Pan Right Limit	0~ <u>170</u>		Limit the right angle

1st Level	2nd Level	3rd Level	Function Descriptions
Major Items	Minor Items	Adjustment Values	Function Descriptions
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	-30 ~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/ 120 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 Set the D-zoom limit
	D-Zoom Limit	<u>x1</u> ~x12	
D-Effect	Mirror	Off/ Mirror/ Flip/ Mirror+Flip	Set the mode at which the image is turned
	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 Center 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
Auto Focus	PTZ Assist	On/ <u>Off</u>	This function can only be enabled in the Manual Focus (MF) mode When PTZ Assist is enabled and PTZ control is in operation, the focus will be triggered. The focus will not be triggered when the scene changes < Remark> Only applicable to VC-R30
	DHCP	<u>On</u> /Off	Enable/Disable the dynamic host configuration
	IP Address	<u>192.168.100.100</u>	
Ethernet	Subnet mask	<u>255.255.255.0</u>	Configurable when DHCP is set to Off
	Gateway	<u>192.168.100.254</u>	
	Audio Enable	On/ <u>Off</u>	Turn on/off audio output
	Audio In	Line In/ Mic In	
	Audio Volume	0~ <u>A</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) 44.1 KHz(AAC) 16 KHz(AAC) 	Set the encode type and sample rate
System	Prompt	On/ <u>Off</u>	Turn on/off the prompt information on the display



1st Level	2nd Level	3rd Level	Function Descriptions	
Major Items	Minor Items	Adjustment Values	runction Descriptions	
	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	
	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/ 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	VISCA	Supporting VISCA protocol	
	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	1080p 60/50/30/25 720p 60/50/ 1080i 60/50	Choose the output resolution <remark> 1080i 60/50 is only applicable to VC-R30</remark>	
	Factory Reset)	On/ <u>Off</u>	Resume the factory default setting	
Status			Display the current setting status	

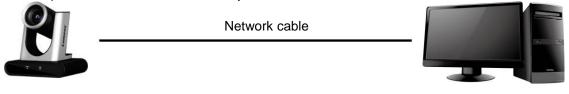
Lumens®

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 Network cable Camera Switch or router
- 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



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.: <u>http://192.168.100.100</u> (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



Computer

Username	Lumens Network Camera
A	Account: admin
Remember Me	 Password: 9999 (Default)
For the first lows logs, phone arrive the default outerance and presents. \textcircled{O} where they, present model outer and presented as soon as possible. \textcircled{O}	

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

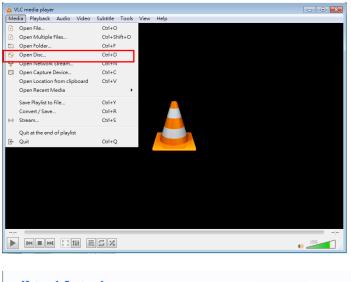
If password authentication is enabled, the RTSP connection address is as follows:

- rtsp://Username:Password@VC IP address:port/h264
- To enable password authentication function, please refer to <u>5.2.8 System Setting</u> <u>Network</u>

Example:

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

rtsp://192.168.100.150:8557/h264



-Network Protocol	
Please enter a network URL:	
rtsp://192.168.100.150:8557/h264	
)



5.2 Web Page Menu Function Description 5.2.1 Login Screen

		Image: Contract of the login please erter the default user name and password as soon as possible.	
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 5.2.10 System</remark>	
		Settings - User to change the default password	
3	Remember user	Save user login account and password to the browser. When you log in	
account and password next time, there is no need to re-enter them		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

	Lumens	
		ve View
	C-5 0	mera ID
	لەت ¶)) Audio	cation
	(*••)) Stream	
	🔅 System ┥	
	🔸 Maintenance	
	1 About	
	чё неvc Advance"	$\begin{array}{c} \hline \\ \hline $
No	ltem	Function Descriptions
4	Camera ID/location	Display camera ID/location
1		Please refer to 5.2.7 System Settings - Output Setting
2	Preview window	Display the screen currently captured by the camera

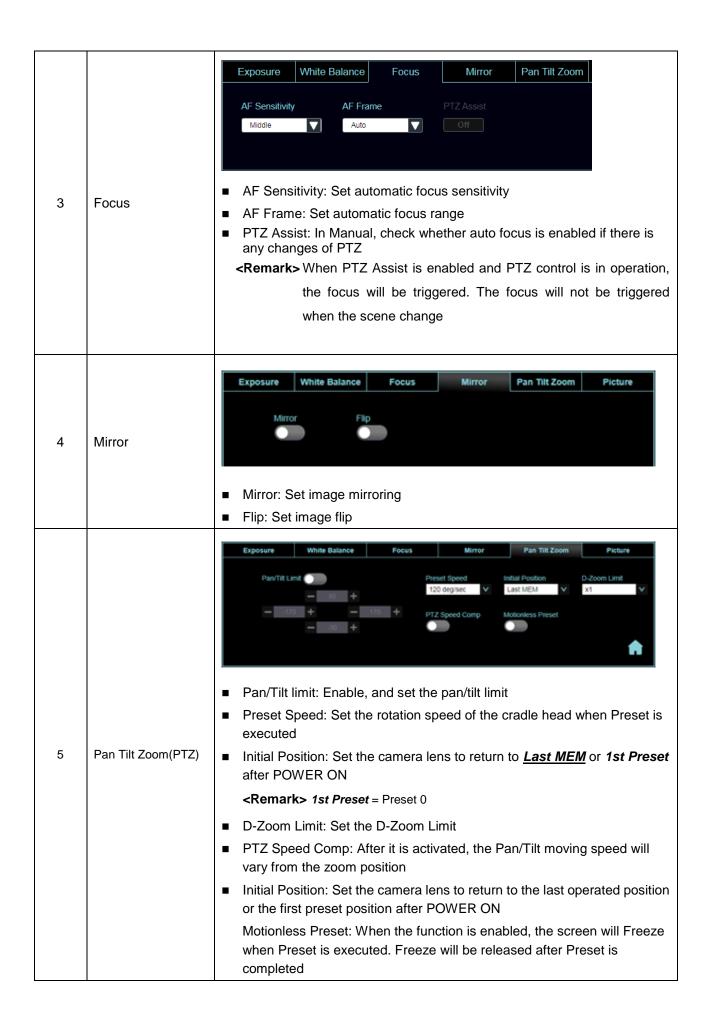


3	Preset setting	Select the number first and then select SAVE or LOAD
4	Pan/Tilt setting	Adjust the Pan/Tilt position of the camera screen
5	Zoom	Zoom In/Zoom Out ratio
6	AF/MF	Switch AF/MF
7	Pan/ Tilt Speed	Adjust the horizontal/vertical moving speed of the lens
8	Zoom speed	Adjust the zoom speed
9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

5.2.3 Live Video - Camera Setting

	Exposure	White Balance	Focus	Mirror	PTZ	Picture
	Mode Full Auto WDR Off	× –	n Level 0 dB + Level F2.8 +	Exposure Comp. Level - 0 + Shutter Speed - 1/60 +	Gain Limit — 30 dB	+
No	Item			Function [Descriptions	
1	Exposure	White Gain Gain Expo WDR bette Iris L or "A	e Board) Level: Adjust Limit: Adjust I sure Comp. L Set the leve r images evel: Adjust th perture Priorit	the gain level (he gain limit (ac evel: Select ex l of wide dynan he size of aperto y" just the shutter	adjustable only djustable only posure compe nic range (WD ure (adjustable	^r Pri/Iris Pri/Manual/ ly under the "Manual") under the "Manual") ensation level R) in order to obtain e only under the "Manual" table only under the
2	White Balance	 Mode Oper (adju 	Auto	Focus Manual Re – 50 olor temperatur ingle color temp ider the "One P fanually adjust	re mode perature exect push WB"	It Zoom Picture anual Blue - 64 + 64 + ution adjustment temperature



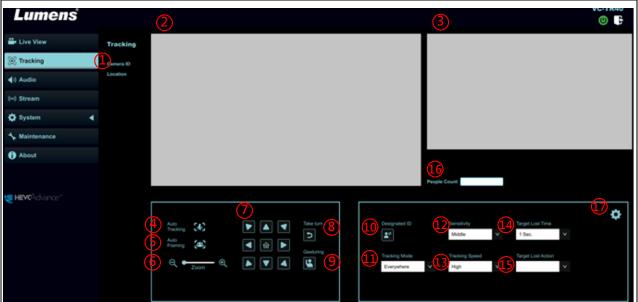




		Exposure White	e Balance Focus	Mirror F	Pan Tilt Zoom	Picture
6.	Photo	2D NR 1 3D NR Typ 2D noise reduct 3D noise reduct Image Mode: T Hue: Hue adjus set to Custom	turnetion odjustment	tion settings ize his/her des ; Adjustable w	+ + sired imag when the i	mage mode is
		 image mode is Brightness: Brightness: Brightness	ightness adjustment set to Custom na Level adjustment; arpness adjustment o	of the image Adjustable w	e; Adjusta	able when the nage mode is
7	PTZ Control	Go back to PTZ C	Control page			



5.2.4 Tracking



No	Item	Function Descriptions		
1	Camera ID/location	Please refer to 5.2.7 System Settings - Output Setting to display		
I		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		
3	Panoramic preview window	Display the screen currently captured by the panoramic lens		
4	Auto Tracking	Start/Stop Auto Tracking		
		<remark> Auto Tracking / Auto Framing (Select one only)</remark>		
5	Auto Framing	Start/Stop 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		
		<remark> If the image is not zoomed according to the actual number of</remark>		
		people, please click to perform viewfinder correction		
		<remark> Auto Tracking / Auto Framing (Select one only)</remark>		
6	Zoom ratio	Zoom In/Zoom Out ratio		
7	Pan/Tilt setting	Adjust the Pan/Tilt position of the camera screen		
		<remark> When Auto Tracking / Auto Framing is enabled, PTZ settings are not supported</remark>		
8	Take Return	Switch it one by one from left to right. It will be switched once the butto		
		pressed		
9	Gesturing	Gesture recognition-enabled button. Press it to activate this function.		
		Press it again to bounce the button to turn off the function		
10	Designated ID	Press it to activate this function. You can switch the ID by clicking the		
		targeted frame with the mouse. Press it again to bounce the button to turn		
		of the function		
11	Tracking Mode	Set the Tracking Mode (Everywhere Tracking/Stage Tracking/Partition		
		Tracking/Framing)		
12	Sensitivity	Set tracking sensitivity		
13	Tracking Speed	Set tracking speed		
14	Lost Timeout	Set a delay for taking action after a tracking object is lost		
15	Lost Reaction	Set the action after a tracking object is lost		
16	People Count	Display the number of people in the screen automatically calculated by the system		



17	Advanced Setting of Tracking Mode	
17.1	Settings - Everywhere tracking	Everywhere Setting Body Size Block Area Full Head Position 10 Done Body Size: Set Full/Half Body Head Position Block Area
17.2	Settings - Stage Tracking	Stage Body Size Block Area Full Image: Construction 10 Image: Done Body Size: Set Full/Half Body Head Position Block Area Block Area Select Zone: Press the button to enter the edit mode. Framing by holding the left mouse button to determine the zone and moving area
17.3	Settings - Partition Tracking	 Set Partition Tracking. Up to 4 zones can be set When a person enters the zone of a partition, the camera switches to the partition. Tracking is not performed in the zone, but everywhere outside the partition Please refer to 5.2.4.2 Partition Tracking for the setting steps Partition Body Size Body Area Partition Body Tracking: Set Full/Half Body Head Position Block Area Partition Settings: Edit, save partition positions and preview the partition image Click to enlarge the partition image, and then click the enlarge icon to cancel the preview Number of Partitions: Set the number of partitions Starting Partition: Initiating the partition position



17.4	Settings - Framing	Auto Framing Body Size Block Area Full V	Partition Edit	P.3	P.4
		Head Position	Partition Framing	# of Partitions	S P.1 V Done
		 Partition Edit: "Partition- edit mode. Framing is a mode After framing, capture th P.4 	vailable when pa	noramic wir	ndow is in the edit
		Partition Framing# of Partitions			

5.2.4.1 Stage

- 1. Select [Stage] for Tracking Mode, and click box to select an area (orange box)
- 2. After the selection, click set to set, and the preview screen will display the selected area, then click stress the settings
- 3. Set the Left/Right Border
 - > Left Border: Click **I i** to move the position and click **i** when finished
 - ➢ Right Border: Click ■ to move the position and click when finished
 - > Click Done to complete the settings after setting the left/right border
- 4. 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 contained, use PTZ function to adjust to the screen to be partitioned, and then click to save. The partition icon below will be changed to the saved position
- 3. If you need to set other partitions, please continue using PTZ function to adjust the screen, and then click **I** to save

<Remark> If a red box is displayed when adjusting the screen, it means that the position overlaps with that of other

partitions. Please adjust the screen again and save it when a green box is displayed

<Remark> Overlapping partition positions may cause abnormal tracking behavior

4. Click 🐼 to enable the Partition feature



5.2.5 Audio

	Lume	ens [®]			
	Live View		Audio		
	() Tracking				
	الله Audio 📢		L D Audio Enable		
	((•)) Stream		Encode Sample Rate 16 KHz		
	🔅 System	•	Audio Volume - 6 +		
	🤸 Maintenance	;	2 Audio Delay		
	() About		Delay Time(-) 10 ms		
	te hevc Advanc	e	3 Apply Cancel		
No	Item		Function Descriptions		
1	1 Audio Enable Select to enable Audio function 1 Audio Enable = Audio In: Set Line In / Mic In = Encode sample rate: Set the encode type and sample rate = Volume: Adjust Audio Volume				
2	Audio Delay	After checkir	ng the box, set the audio delay time (10 ~ -500 ms)		
3	Apply/Cancel	Apply/Cance	Apply/Cancel Audio Setting		

5.2.6 Streaming

5.2.0	Streaming				
	Lumens				
	Live View Stream				
0	Tracking	ream1 Stream2			
		Stream2 Stream2 2) Codec H.264 Bit Rate 15000 V kbps Frame Rate 60 V fps			
(((=)	∜ Stream	Resolution 1080p V Rate Control CBR V GOP 30 V			
•	System				
*	Maintenance	3 ✓ RTSP RTSP URL: rtsp://192.168.100.150.8557/h264			
0	About	Enable Multicast Account			
		Password			
HE	HEVC ^A dvance [~]	TRIMP/RTMPS Publish to Server			
		RTMP Server Status:			
		Server URL Account			
		Destination IP Port Number 1025			
		Latency 120 ms			
		Encryption None V Passphrase			
No	Item	Function Descriptions			
1	Streaming 1/	Supporting 2-way streaming output			
I	Streaming 2	Supporting 2-way streaming output			
2	Streaming parameter setting	Please refer to 5.2.6.1 Streaming Parameter Setting 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 <u>5.1.3 Using RTSP Player</u>			
		to View the Images			
		The username/password is the same as the web login password of the same release refer to 5.2.42 Systems Acting the set to			
		the camera, please refer to <u>5.2.10 System Settings - User</u> to add/modify account information			
		Copy the RTMP web address provided by the RTMP service platform and			
4	RTMP/ RTMPS	paste it to the RTMP connection address to publish the camera images on the RTMP service platform			
Ŧ		To upload to YouTube for live streaming, please refer to <u>5.2.5 Audio</u> to			
		turn on the audio function ■ Set the field of SRT and then check the item to open 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			
5	SRT	<remark> The following port is to be used by the camera. Setting of</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

Function		Streaming 1	Streaming 2
Encode	e Format	H.264	
Res	olution	1080p / 720p	720p
	Range	2,000~20,000	2,000~20,000
Bit rate	Factory	7.000	3,000
	Default	7,000	
Rate	Control	CBR / VBR	
Fram	ie Rate	Setting according to the supported resolution	
Group c	of Pictures	Setting according to th	e supported resolution

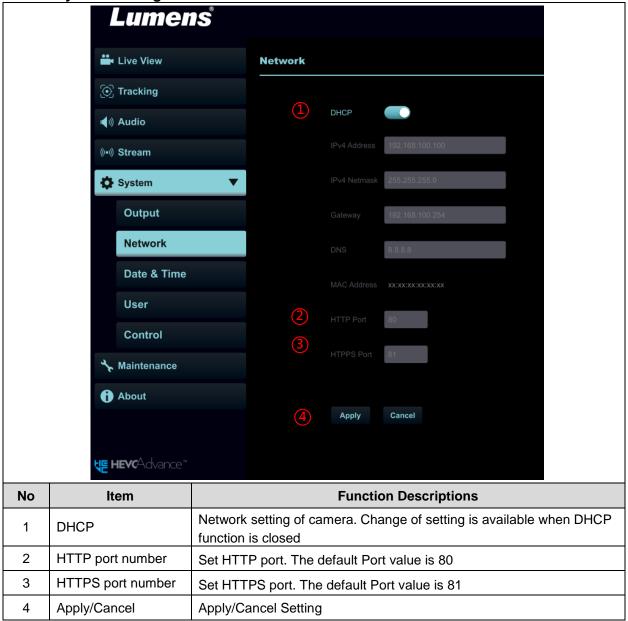
5.2.7 System Settings – Output Setting

	Lume	ens		
	Live View	Device		
	() Tracking			
	الم	Camera ID VC-TR40		
	((•)) Stream	Location Defait		
	🔅 System			
	Output	Apply Cancel		
	Network			
	Date & Time	e Video Out		
	User	3 Resolution 1080p/60 V		
	Control			
	✤ Maintenance	4 HDMI Format YUV422		
	f About	S Privacy Mode (UVC) Disable		
	ų<u>e</u> hevc Advance	6 Apply Cancel		
No	ltem	Function Descriptions		
1	Camera name	 Change camera name here Supporting 1 - 30 characters for the camera name Please mix uppercase and lowercase letters or numbers for characters. Special symbols such as "/" and "space" cannot be used 		
2	Camera Location	 Modify the location of the camera, such as Room 1 Supporting 1 -30 characters for the camera location Please mix uppercase and lowercase letters or numbers for characters. Special symbols such as "/" and "space" cannot be used 		
3	Resolution	Set the resolution of the camera After switching the resolution, the camera will restart. Please refresh the browser		
4	HDMI format	Select YUV422/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 bottom right to ensure the user's privacy
6	Apply/Cancel	Apply/Cancel Setting

5.2.8 System Settings – Network



5.2.9 System Settings - Date & Time

J.Z.J Oystelli Dettiligs - Date	
Lumens	
Live View	Date & Time
() Tracking	
الله Audio (۱۹۹۵) ماله الم	Current Date & Time 2021-01-01 00 : 38 : 44
((*)) Stream	PC Clock 2021-01-01 00 : 38 : 44 Date & Time Format yvvy-mm-dd hh:mm:ss
🔅 System 🔻	Date & Time Format yyyy-mm-dd hh:mm:ss V
Output	Time Setting Keep current setting
Network	
Date & Time	
User	Apply Cancel
Control	
יאָר Maintenance	
f About	
te hevc Advance"	
	Function Descriptions
Display the current camera/PC dat	e 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

	Lumen	IS						
	Live View	User						
	() Tracking							
	■(3) Audio			User name	Current password	New Password	Confirm Password	Authorization mode
	(Init) Stream		Administrator	admin				
	System	•	User 1 User 2					Operator V Operator V
			User 3					Operator V
	Output		User 4					Operator V
	Network		User 5					Operator V
	Date & Time		User 6 User 7					Operator V Operator V
	User		User 8					Operator V
	Control						I	
	⊀ Maintenance			fancel				
	About		Apply C	ancei				
			F	unction D	escription	าร		
،dd	/Modify/Delete u	ser account	F	unction D	escriptior	าร		
					•			
	Supporting 4 - 32	2 characters for	r user	name and	password		ars Specie	al symbols
I S	Supporting 4 - 32 Please mix uppe	2 characters for rcase and lowe	r user	name and	password		ers. Specia	al symbols
	Supporting 4 - 32 Please mix uppe <mark>underlined</mark> canno	2 characters for rcase and lowe ot be used	r user ercase	name and letters or i	password numbers f	or charact	-	al symbols
IS IF U	Supporting 4 - 32 Please mix uppe	2 characters for rcase and lowe ot be used	r user ercase	name and letters or i	password numbers f	or charact	-	al symbols
∎ { ∎ F ι	Supporting 4 - 32 Please mix uppe underlined canno Authentication M	2 characters for rcase and lowe ot be used	r user ercase	name and letters or i	password numbers f	or charact	-	al symbols
∎ { ∎ F ι	Supporting 4 - 32 Please mix uppe <mark>underlined</mark> canno	2 characters for rcase and lowe ot be used lode: Set the ne	r user ercase ew acc	name and letters or i	password numbers f	or charact	-	al symbols



Settings	V	V	Х
Account	V	x	Х
management			

5.2.11 System Settings – Control

	Lume	ns
	Live View	Control
	() Tracking	1 Protocol VISCA V
	الله Audio	Baud Rate 9600
	((+)) Stream	
	System	3 VISCA Address 1
	Output	Apply Cancel
	Network	Apply Gancer
	Date & Tim	e
	User	
	Control	
	st Maintenance	
	f) About	
	ue hevc Advance	
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					
	Lumens					
	Live View	Maintenance				
3	्रे Tracking					
	()) Audio	1 Firmware Update Upgrade				
(0	••) Stream	Error Code Text Field				
4	🗘 System 💊	3 Factory Reset Reset				
3	K Maintenance	Configuration Export Import				
	About	5 Event Log 00 00 00 00 00 00 00 00 00 00 00 00 00				
H	HEVC Advance [™]					
	-	Clean				
No	ltem	Function Descriptions				
		Select the firmware file, and click [Upgrade] to update the firmware.				
1	Firmware Upgrade	<remark>Update takes about 2-3 minutes.<remark> Please do not operate o-r turn off the power of the device</remark></remark>				
		during the update to avoid firmware update failure.				
2	Error code					
3	Factory Reset	Reset all configurations to factory default settings.				
4	Configuration	Save setup parameters as a Profile, and users can download and upload camera setup parameters				
		If the machine operates abnormally, the event log can be exported for				
5	Event Log	reference of Lumens technicians <remark> When an error code appears, please try to clear it to make</remark>				
5		Appropries whom an organ appoare interesting to clear it to make				

5.2.13 About

Lumens		
🗰 Live View	8	
(iii) Tracking	Lumens	
∢ ≬ Audio		
(-) Stream	Manufacturer : Lumens Digital Optics Inc. Model Name : VC-1940	
🗘 System 🖌	Firmware Version : 1.0.1	
V oyanın	MAC Address : 305-005-005-005 Serial Number : 5000000000	
* Maintenance		
About		
	www.bld.umens.com	
🐙 HEVC ¹ dvance"		
		Get Help ?
		的派
		E12/304
	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-R30. 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	 Make sure you have plugged in the power cord. When using a PoE connection, ensure that the power supply supports PoE (IEEE802.3af) hubs 				
2.	There is no image output from camera	 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 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	 Confirm the connection is correct (RS-232 In/ Out) 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 <u>Chapter 5 Network Function Setting</u> <u>Description</u> 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-R30 cannot be operated by remote control	 Please make sure the IR Select setting in the camera menu is the same setting as the Camera Select of the remote control Please try to replace the batteries of the remote control Please prevent VC-R30 from direct sunshine Make sure the energy-saving bulb and the IR touch screen are as far as possible in order to avoid interference When several VC-R30 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 				
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-R30 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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