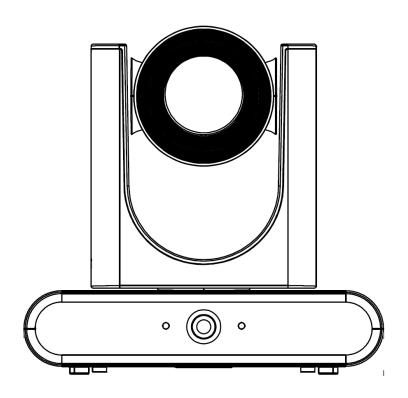
VC-TR41<mark>/ VC-TR41N</mark>

Auto Tracking Camera

User Manual - English



Version: VVN005_VUI106_VVD100

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 Packing List

Power Adapter

Power Cord

3PIN-2PIN
Connector

(Type B to Type A)

Remote Control

Appearance may vary depending on county/ region

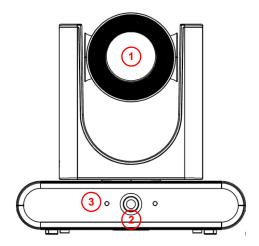
(For Japan only)

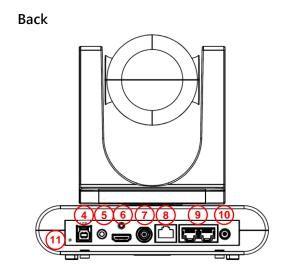


Chapter 2 Product Appearance

2.1 I/O interface







NO.	ltem	Description	
1.	Main camera lens	PTZ camera lens	
2.	Panoramic lens	Panoramic camera lens	
3.	Power/ Standby LED indicators	Displaying the camera status, please refer to 2.2 LED Indicator	
4.	USB output	Connecting to the USB port of the computer and providing USB signal images	
5.	Audio In	3.5mm LINE IN	
6.	HDMI OUT	HDMI output	
7.	3G-SDI OUT	3G-SDI output (BNC 75Ω · support SMPTE 425M)	
8.	Ethernet	Network port, support PoE+ (IEEE802.3af)	
9.	RS-232/ RS-422 IN-OUT	RS-232/ RS-422 input-output Pin out please refer to 3.4.3 RS-232/ RS-422Pin Definition	
10.	DC IN 12V	DC supply connecting port	
11.	Service	Reset the camera to the default	

2.2 LED indicator

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

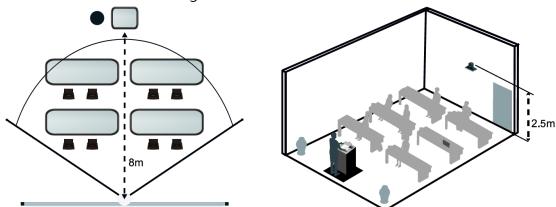


Chapter 3 Installation Instructions

3.1 Scenario

3.4.1 VC-TR41(N) supported tracking distance: 2-14m

Recommended tracking distance: 8m



To maintain optimal tracking performance, please avoid having posters, screens, monitors, or TVs with human images in the background.

3.2 Preparation before installation

Installation and connection of PTZ 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
 - Confirm the position for the object to be captured.
 - Confirm whether the camera is set at a proper distance from other light sources.

3.3 Instruction for installation

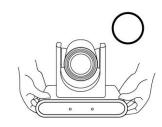
- 3.3.1 I would like to install camera on the desk
 - Please install the machine on a flat desk
 - Do not grab the camera head by hand when handling the device
 - Do not rotate the camera head by hand. Improper rotation may result in breakdown of the camera











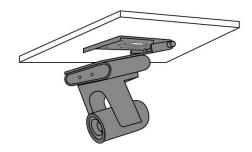
- 3.3.2 I would like to install the camera on the ceiling/wall/TV stand

 Lumens can provide the following optional accessories. Please contact your

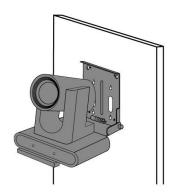
 Lumens distributer if needed for purchase
 - VC-WM14 3 in 1 Folding Bracket
 - VC-WM15 Ceiling Mounted Bracket
 For installation of brackets, please download VC-WM14/VC-WM15 Quick
 Installation Guide from the Lumens website
 - ◆ Install on the TV



♦ Install on the ceiling



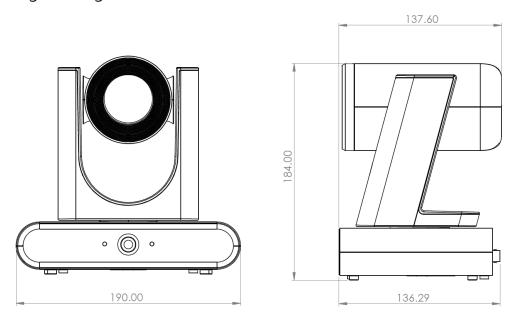
◆ Install on the wall





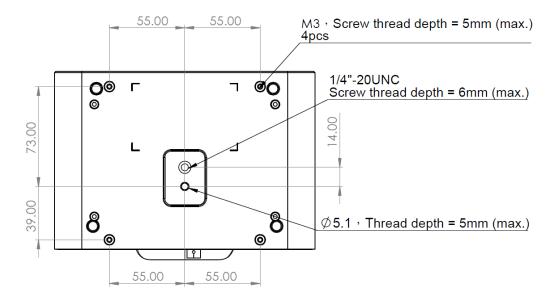
3.3.3 Camera Size

- Length x Width x Height:: 190 x 137.6x 184mm
- Weight: 1.5Kg



• Dimensions of the bottom

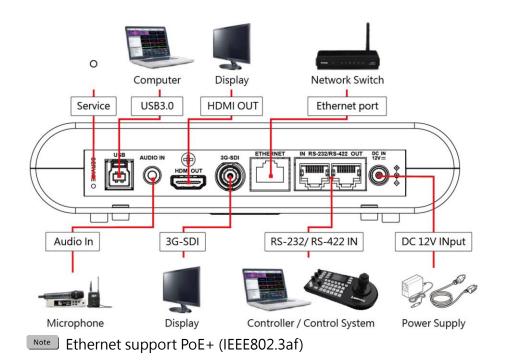
The camera can be mounted on a 1/4" - 20 UNC PTZ tripod deck by using the lock holes on the bottom for the tripod



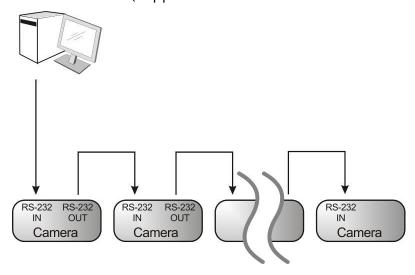


3.4 Connecting devices

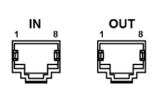
3.4.1 I/O Connection



3.4.2 RS-232/ RS-422 connection (Support max. 7 Lumens cameras can be connected)



3.4.3 RS-232/ RS-422 pins definition

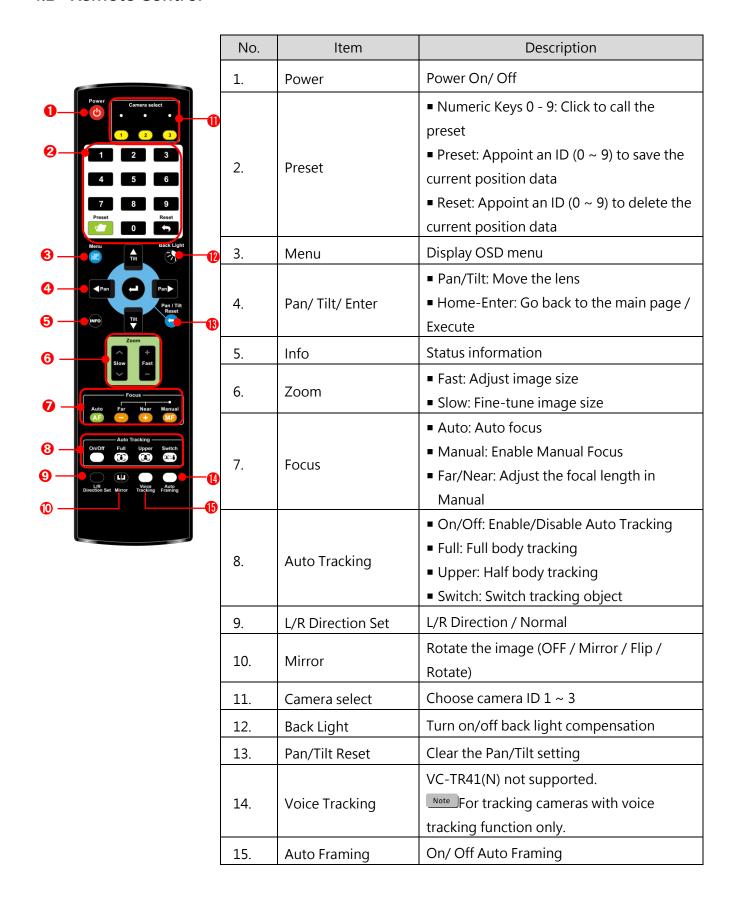


Pin No.	IN	OUT	RS-232/ RS-422
1	RX-	TX-	RS422
2	RX+	TX+	RS422
3	GND	GND	GND
4	TX	RX	RS232
5	RX	TX	RS232
6	DTR	DSR	RS232
7	TX-	RX-	RS422
8	TX+	RX+	RS422



Chapter 4 Remote Control and Setting Menu

4.1 Remote Control





4.2 Setting Menu

Press [Menu] on the remote control to enter the setting menu; Defaults value is shown with bold underlined.

Layer 1	Layer 2	Layer 3	Description
	Mode	Full Auto/ Shutter Pri/ Iris Pri/ Manual	Exposure mode
	Exposure Comp.	On / Off	Turn on/off Exposure Compensation
	Level	-5~5	Adjustable when Exposure Comp. is activated
	Spot Light	On / Off	
	Position	X(0~6)Y(0~4)	Adjustable when Spot Light is activated
Evposuro	Shutter Pri	1/10000~1/25	Adjustable when the Exposure mode is set to Shutter Pri
Exposure	Iris Pri	F1.6~ C ~F6.3	Adjustable when the Exposure mode is set to Iris Pri
	Manual Gain	0-45dB	Adjustable when the Exposure mode is set to Manual
	Manual Speed	1/10000~1/25	Manually set the shutter
	Manual Iris	F1.6~ <u>C</u> ~F6.3	Manually set the iris
	Gain Limit	9- <u>45</u> dB	Max. limit value of electron gain
	Iris Limit	F1.6~ <u>C</u> ~F6.3	Max. limit value of iris
	WDR	OFF/ 1/ 2 /3	WDR settings
White Balance	Mode	 Auto Indoor Outdoor One Push WB ATW Manual Sodium Lamp 3000K 4300K 5000K 6500K 8000K 	Select the color temperature mode 1. 4000k ~ 7000k 2. 3200k 3. 5800k 4. 1700k ~ 10000k 5. 1700k ~ 10000k 6. Custom 7. 2800k
	One Push	ENTER	One push trigger
	Manual Red	0~ <u>C</u> ~128	Adjustable when the white balance mode is set to Manual
	Manual Blue	0~ <u>C</u> ~128	Adjustable when the white balance mode is set to Manual
Tracking	Туре	Auto Tracking / Auto Framing	



Layer 1	Layer 2	Layer 3	Description
	Picture effect	OFF/ B&W	
	Advanced	On / Off	Enable to adjust the picture parameters.
	Sharpness	0~ <u>C</u> ~14	Adjustable when the Advanced is enabled.
	2D NR	OFF/ <u>1</u> / 2/ 3	Adjustable when the Advanced is enabled.
	3D NR	OFF/ Low/ <u>Typical</u> / Highest	Adjustable when the Advanced is enabled.
Picture	Image Mode	Standard/ LED mode/ Brilliant	
	Brightness	0~ <u>C</u> ~15	Adjustable when the Advanced is enabled.
	Hue	0~ <u>C</u> ~15	Adjustable when the Advanced is enabled.
	Saturation	0~ <u>C</u> ~15	Adjustable when the Advanced is enabled.
	Gamma	0~ <u>3</u>	Adjustable when the Advanced is enabled.
	Pan/Tilt Limit	On / Off	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 / Off	Activate the reverse Pan direction
	Tilt Flip	On / Off	Activate the reverse Tilt direction
Pan Tilt	Preset Speed	5/ 25/ 50/ 80/ 120/ 160/ 200/ 300 deg/sec	Set the rotation speed of the cradle head when Preset is performed
Zoom	PTZ Speed Comp	On / Off	Set the Pan/Tilt moving speed to vary from the zoom position
	D-Zoom Limit	<u>x1</u> ~x12	Set the D-zoom limit
	PTZ Motion Syn)	On / <u>Off</u>	When activated, PTZ synchronization can be achieved by controlling with the Presets Note Refer to the Preset speed setting for this feature. The speed may be adjusted automatically due to the difference of PTZ moving range.



Layer 1	Layer 2	Layer 3	Description	
D-Effect	Mirror / Flip	OFF / Mirror / Flip / Mirror + Flip	Set the mode at which the image is mirror or flipped	
	AF Sensitivity	Low / <u>Mid</u> / High	For AF triggering speed, the higher the speed is, the faster AF is triggered	
	AF Frame	Center Area / All Area / Auto	AF frame setting, when central area was set as AF frame, focusing will be on the center of the screen. When Full Frame was set as AF frame, focusing will be calculated based on the full screen	
Auto	Zoom tracking	Manual / <u>Curve</u> <u>Tracing</u> / Zoom Tracking	The focus mode during lens zooming (It can be set in the Manual Focus (MF) mode)	
Focus	PTZ Assist	On / <u>Off</u>	When PTZ Assist is enabled and PTZ control is in operation, the focus performs only once upon immediate execution. The focus will not be triggered afterward when the scene changes (It can be set in the Manual Focus (MF) mode)	
	Preset AF	On / Off	Set whether to execute auto focus after Preset	
	DHCP	On / Off	Enable/Disable DHCP setting	
Etla ausa at	IP Address	192.168.100.100		
Ethernet	Subnet mask	255.255.255.0	When DHCP is disabled, manual configuration is available.	
	Gateway	192.168.100.254	comiguration is available.	
	Audio In	Line In / Mic In	Set Audio In	
	Audio Enable	On / Off	Turn on/off audio output	
	Volume	0~ <u>C</u> ~10	Volume Setting	
Audio	Delay	On / Off	When audio and video are out of sync, enable this feature to set the audio delay time	
	Delay Time(ms)	-1~-500ms	Set audio delay time	
	Encode Type	AAC	Set encode type	
	Encode Sample Rate	48 KHz	Set the encode type and sample rate	
System	Prompt	On / Off	Turn on/off the prompt information on the display	



Layer 1	Layer 2	Layer 3	Description
	IR Receive	On / Off	
	IR Select	<u>1</u> /2/3	
	Language	English/ 中文	
	Initial Position	Last MEM / 1st Preset	Set the camera lens to return to the last operated position or the first preset position after POWER ON Note 1st Preset = Preset 0
	Control Device	Encoder / Controller	Control Device setting, Controller: for joystick Encoder: for tracking system
	Motionless Preset	On / Off	When the function is enabled, the screen will Freeze when Preset is executed. Freeze will be released after Preset is completed.
	Privacy Mode	On / <u>Off</u>	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
	Control Port	RS-232/RS-422	Choose whether the control interface used is RS-232 or RS-422
	Protocol	VISCA	
	Baud Rate	<u>9600</u> /38400	Choose the transmission speed of the control signal
	VISCA Address	0~7	
	Output Mode	1080p 60/50/30/25 720p 60/50	Select the output resolution
	Factory Reset	On / Off	Resume the factory default setting
Status			Display the current setting status



Chapter 5 Network setting and Web interface

5.1 Connecting Camera to Network

5.2.1 Connection

Please find the two common connection methods below.

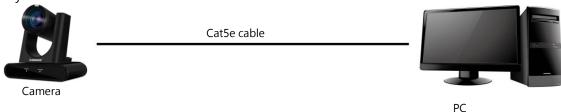
■ Connecting via switch or router



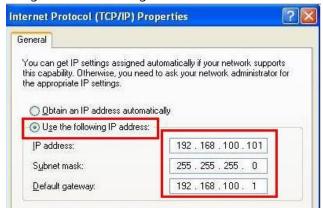
Connecting directly to the PC

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 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



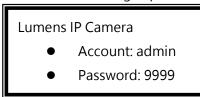
Change network settings



5.2.2 Using the Browser to View the Image

- 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 Username and password

Note For the first-time login, please refer to 5.2.11 System - User to change the default password





5.2.3 Using RTSP Player to View the Image

RTSP connections can be made using free software, e.g.: VLC, Quick Time, PotPlayer, etc. RTSP connection address formats are as follows:

- RTSP Stream 1 => rtsp://Camera IP:8557/h264
- RTSP Stream 2 => rtsp://CameralP:8556/h264
- RTSP Panoramic view=> rtsp://Camera IP:8553/h264

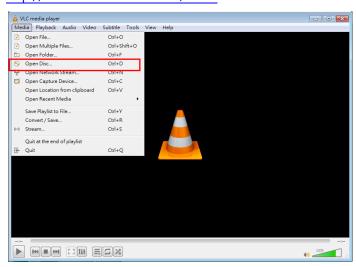
If password authentication is enabled, the RTSP connection address is as follows:

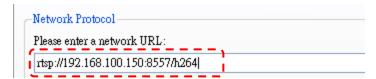
- rtsp://Username:Password@VC IP address:port/h264
- To enable password authentication function, please refer to 5.2.8 System Network

Example:

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

rtsp://192.168.100.150:8557/h264

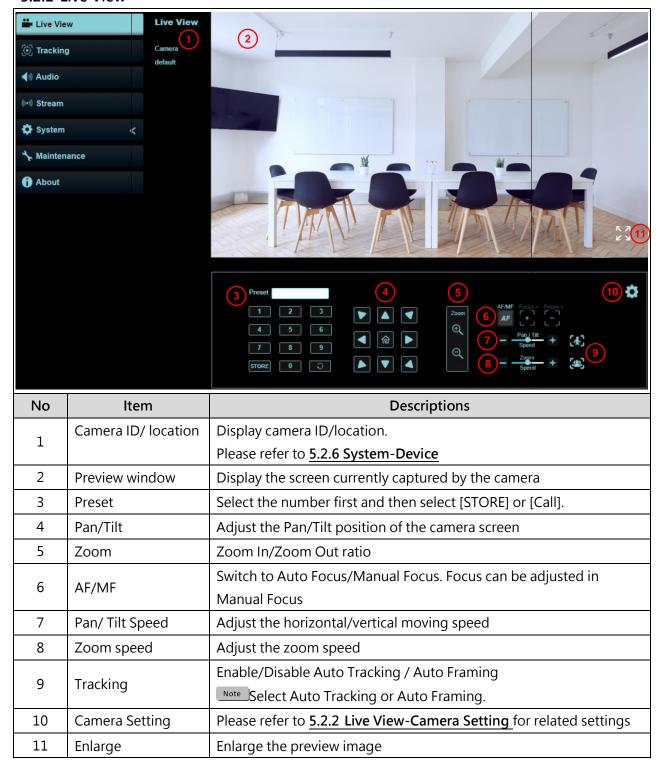






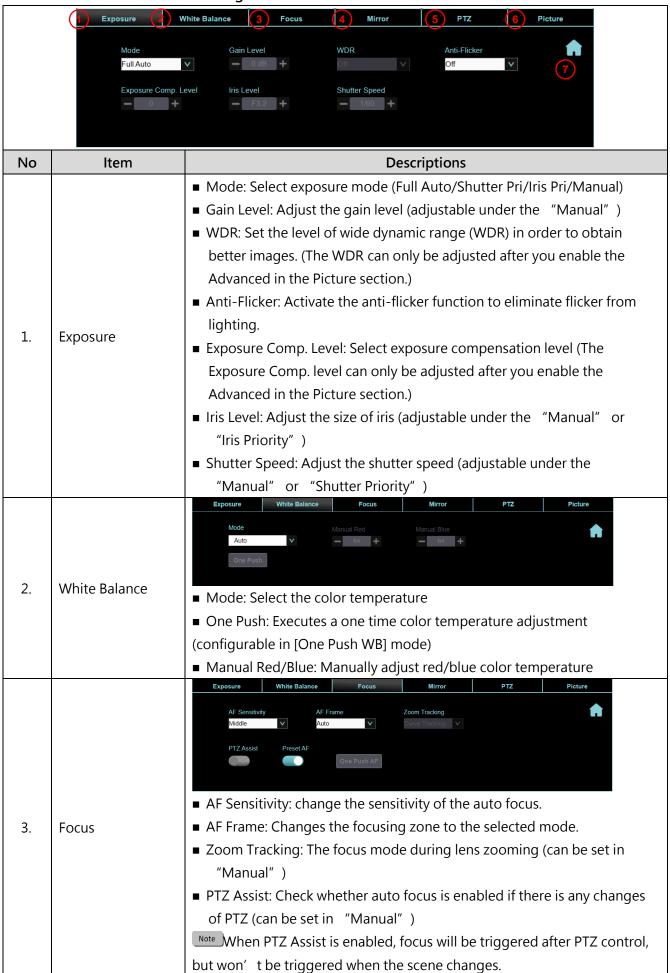
5.2 Web Interface

5.2.1 Live View

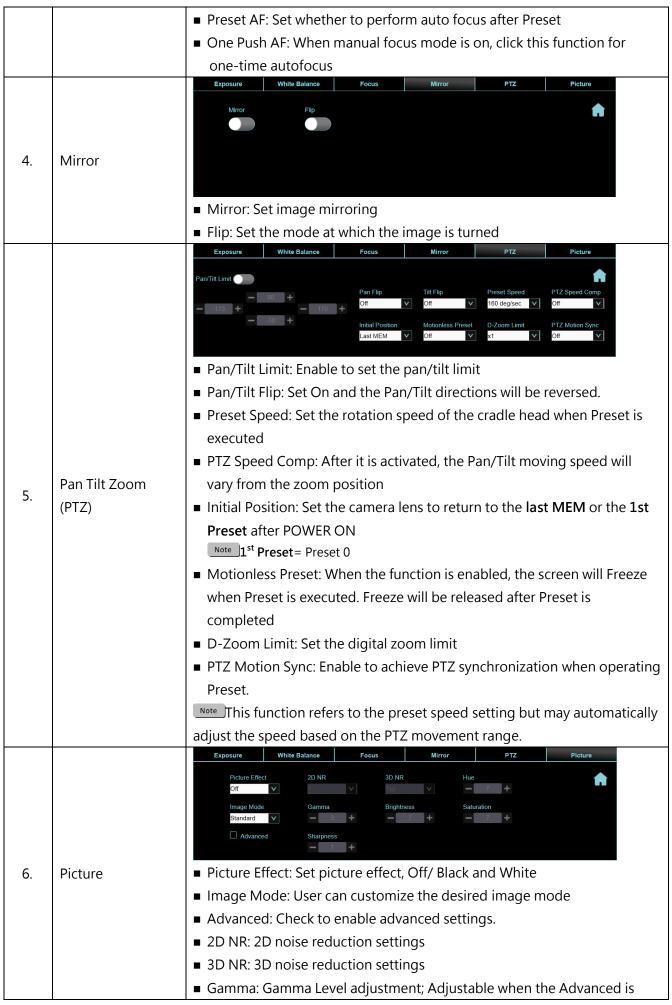




5.2.2 Live View-Camera Setting





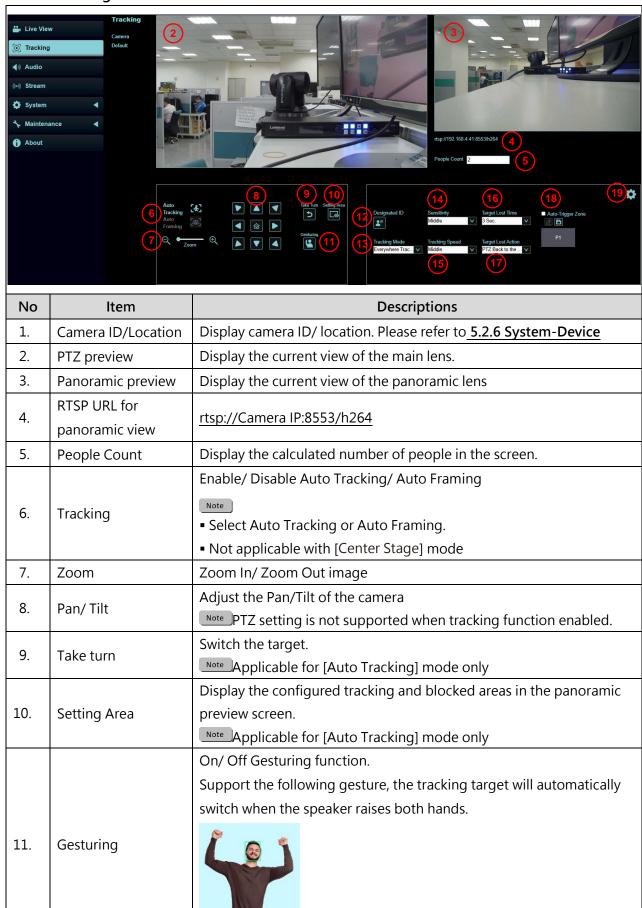




		 enabled. Brightness: Brightness adjustment of the image; Adjustable when the Advanced is enabled. Hue: hue adjustment of the image; Adjustable when the Advanced is enabled. Saturation: Saturation adjustment of the image; Adjustable when the Advanced is enabled. Sharpness: Sharpness adjustment of the image; Adjustable when the Advanced is enabled.
7.	PTZ Control	Go back to PTZ Control page



5.2.3 Tracking



Display individuals the camera has detected.

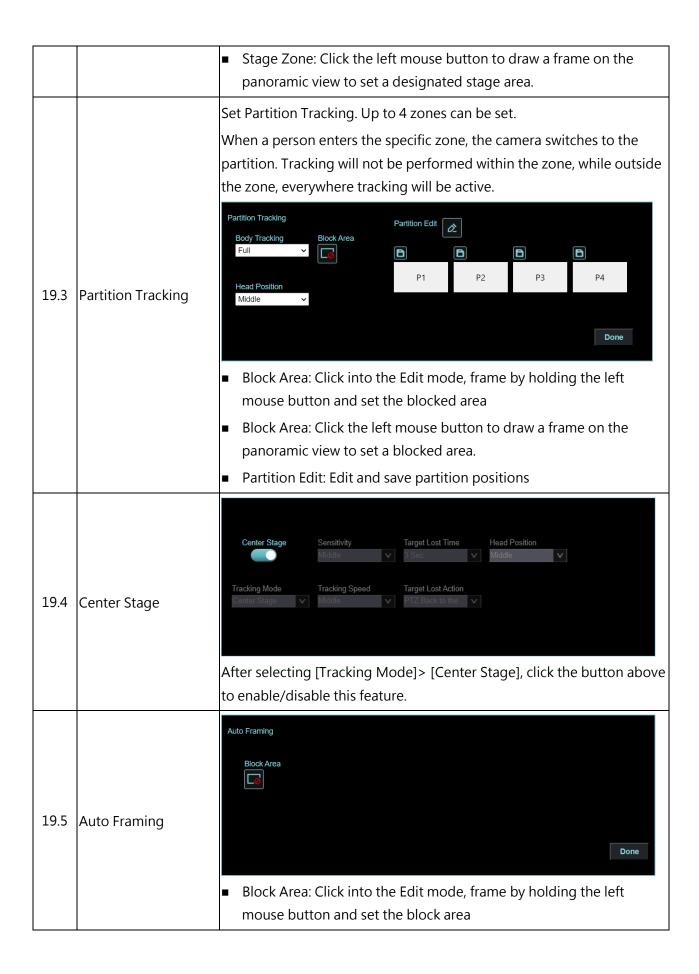


Designated ID

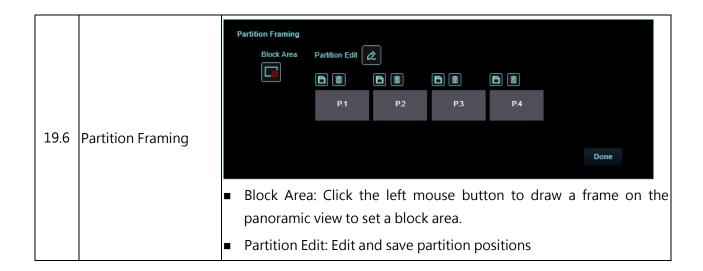
12.

		Target ID can be switched by clicking on a subject with the mouse.	
		Not applicable for[Center Stage] mode	
		Set the Tracking Mode	
10	T 1: N4 1	Auto Tracking: Everywhere Tracking/ Stage Tracking/ Partition	
13.	Tracking Mode	Tracking	
		• Center Stage	
		Auto Framing: Auto Framing/ Partition Framing	
14.	Sensitivity	Set tracking sensitivity	
15.	Tracking Speed	Set tracking speed	
16.	Target Lost Time	Set a delay to take action after a tracking target is lost	
17.	Target Lost Action	Set the action after a tracking target is lost	
18.	Auto-trigger zone	After a person enters the area for 3 seconds, tracking/ framing will be triggered. Note In [Tracking Mode] > [Center Stage] is not supported. Enabling Auto Tracking/ Auto Framing will disable the [Auto-trigger zone] function. Stopping Auto Tracking/ Auto Framing will reactivate the	
		[Auto-trigger zone] function.	
19.	Tracking Mode	Advanced settings for tracking.	
	Setting	g	
19.1	Everywhere tracking	Block Area: Click the left mouse button to draw a frame on the panoramic view to set a designated tracking area. Everywhere Tracking Block Area Tracking Zone Full Pone Done Done Done Done Done	
19.2	Stage Tracking	Stage Tracking Block Area Stage Zone Body Size: Set Full/ Half Body	



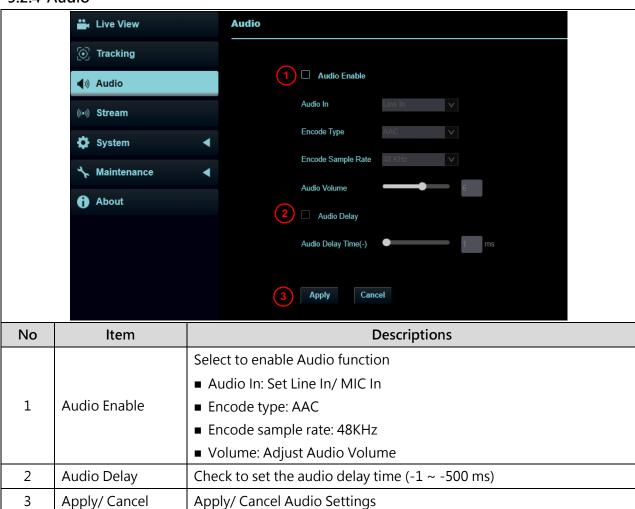








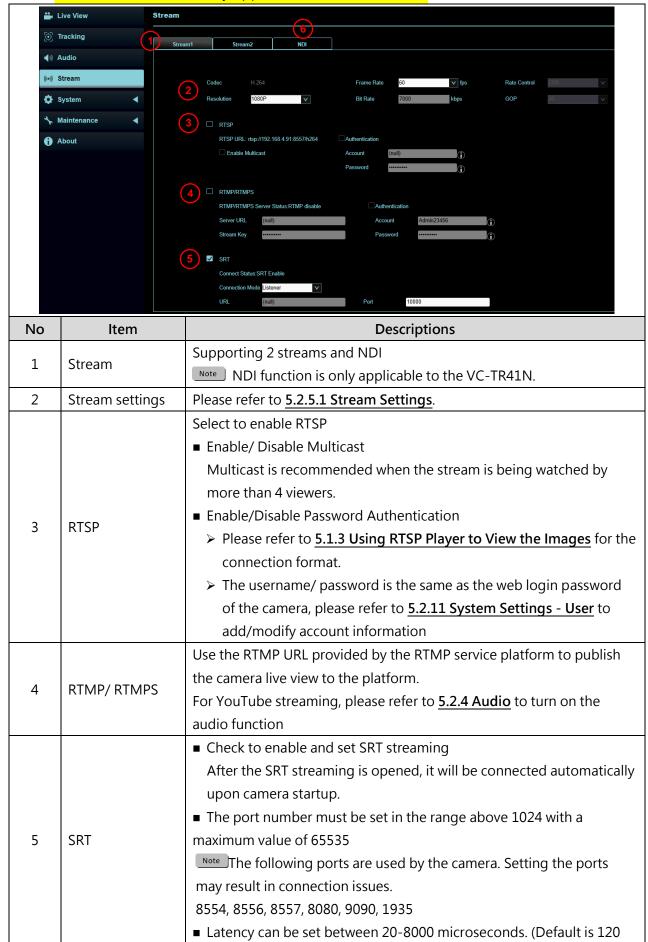
5.2.4 Audio





5.2.5 Stream

NDI function is only applicable to the VC-TR41N.



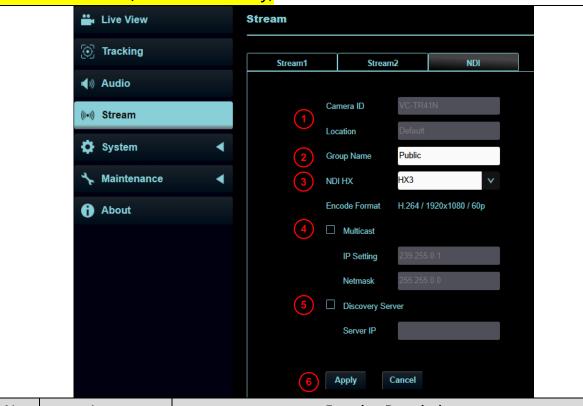


			microseconds
C NDI		NDI	The NDI function is only applicable to the VC-TR41N.
	6 NDI		Please refer to <u>5.2.6 Stream – NDI</u> .

5.2.5.1 Streaming settings

	Function	Stream 1	Stream 2
Encode Format		H.264	H.264
Resolutio	n	1080p/ 720p 720p	
D:tt -	Bit rate	2,000~20,000	2,000~20,000
Bit rate	Default	7,000	3,000
Rate Control		СВР	R / VBR
Frame Rate/ Group of Pictures		Setting according to the supported resolution	
Encode Fo	ormat	Setting according to the supported resolution	

5.2.6 Stream - NDI (For VC-TR41N only)



N	10	Item	Function Descriptions
	1	Camera ID/	Displaying ID/location according to [System] > [Output] settings
-		Location	
	2	Group Name	 The group name can be modified here and set with Access Manager Receive in NDI Tool If no group is assigned, the machine belongs to Public. As the default of Access Manager includes Public, Studio Monitor can discover this machine. If a group is assigned, but this group is not added into Access



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

5.2.7 System - Device



Descriptions

Edit camera ID/ Location

- Camera ID: Supporting 1 12 characters
- Location: Supporting 1 11 characters
- Supporting English, Chinese and numbers. Special symbols such as "/" and "space" cannot be used

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



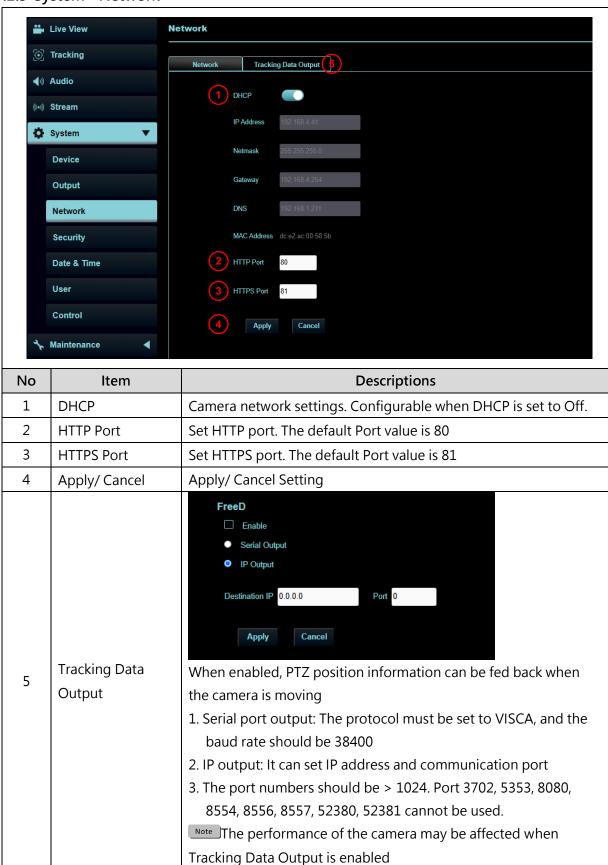
5.2.8 System - Output



No	Item	Descriptions
		Set the resolution of the camera
1	Resolution	After changing resolution, the camera will restart. The browser
		will need to be refreshed.
2	HDMI Format	Supporting YUV422/ RGB
	Privacy Mode (UVC)	After the privacy mode is enabled, when the camera is turned off via
3		the remote control or software, the lens will automatically turn to
		the bottom right to ensure the user's privacy.
4	Overlay	Set the stream to display "date and time" or "custom content"
4		and to display location
5	Apply/ Cancel	Apply/ Cancel Setting

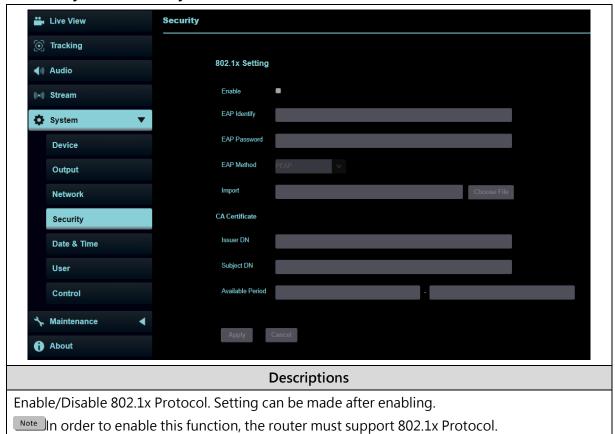


5.2.9 System - Network

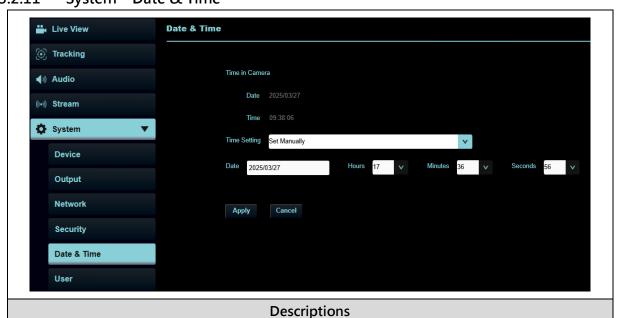




5.2.10 System - Security

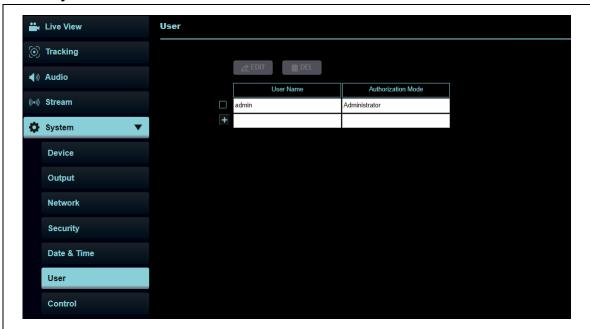


5.2.11 System – Date & Time



Display the date and time of the camera, set synchronization methods or manually set the date and time.

5.2.12 System - Control



Descriptions

Add/ Modify/ Delete user account

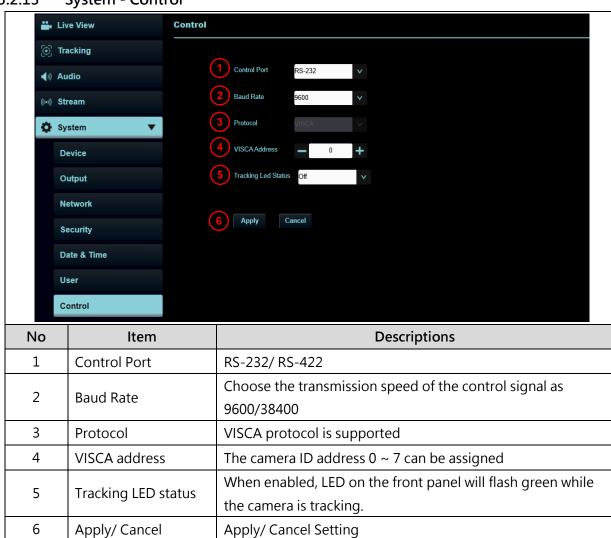
- Supporting 4 32 characters for user name and password
- Please mix uppercase and lowercase letters or numbers for characters. Special symbols or the underlined cannot be used
- Authentication Mode: Set the new account management permissions

User Type	Admin	Operator	Viewer
View images	V	٧	V
Settings	V	V	Х
Account management	V	Х	Х

Note Factory Reset will also clear the User's data

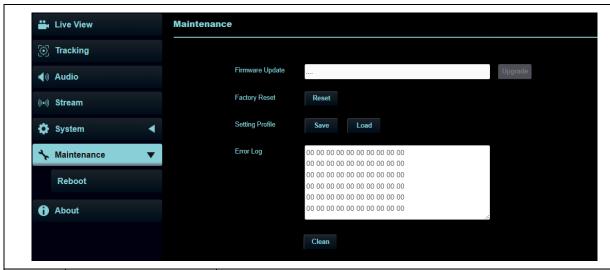


5.2.13 System - Control





5.2.14 Maintenance



No	Item	Descriptions
		Select the firmware file, and click [Upgrade] to update the
		firmware
1	Firmware Update	Update takes about 2 - 3 minutes
		Note Please do not operate or turn off the device during the
		update to avoid firmware update failure
2	Factory Reset	Reset all configurations to factory default settings
3	Setting Profile	The camera setting parameters can be exported and
3		imported/applied to another cameras.
		If the camera encounters errors, an error code log will be
4	Error Log	established
4	Error Log	When an error code appears, please try to clear it to
		check whether the issue has occurred repetitively

5.2.15 Maintenance - Reboot





5.2.16 About



Descriptions

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



Chapter 6 Troubleshooting

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

No.	Problems	Solutions
		1. Make sure you have plugged in the power cord.
1.	No power	2. When using a PoE connection, ensure that the power supply
		supports PoE(IEEE 802.3af)
		1. Check the power supply or PoE supply functions.
2.	No image output from the	2. Confirm if the camera resolution is compatible with the
2.	camera	display.
		3. Replace the cables and make sure they are not faulty.
3.	Camera image is severely	Please use 1080p or 720p 60/50 fps rather than 25/30 fps
	delayed	signals 1. Confirm the connection is correct (RS-232/ RS-422 In/ Out)
4.	RS-232/ RS-422 cannot be	2. Please make sure the Baud rate setting is the same as the
4.	controlled	control equipment
		Please be sure to use only English alphabets or numbers in
_	ONVIF software cannot locate the machine	[System] > [Device] > [Camera ID] / [Location] of the webpage.
5.		Using special characters or space will cause the ONVIF
		software unable to search the machine.
	The camera does not save the	Please make sure if the Initial Position is set to [Last MEM]
6.	relevant parameters (PTZ,	from the setting menu or web page
0.	AWB) after reboot	Setting Menu: System - Initial Position
	,	■ Web page: Live View - Camera Setting - PTZ
		Please make sure that the camera is not in the following
	Tracking Data Output is delayed or not updated	conditions.
		The following function settings may cause data output to be
		delayed or not updated:
7.		- Modify output resolution
		- Modify camera mode
		- Modify HDMI format
		- Enable OSD menu
		- Streaming setting
	Hamita la aliate the coeles.	- Audio setting
8.	How to log into the webpage	Please contact the local distributor or Lumens.
	when you forget the password	



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
- 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.

Cleaning

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

Precautions



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



WARNING

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

Battery Warning (for products or accessories with batteries)

General Safety Warnings:

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

Usage and Storage Warnings:

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

Disposal and Recycling Warnings:

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

Child Safety Warnings:

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



■ FCC Warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

Notice:

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

■ IC Warning

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

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

■ EN55032 CE Warning

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



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