CV630-IP CV630-IPW

30x UHD30 IP (HEVC) PTZ Camera



User Manual

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Chapter 1 Safety Instructions

Always follow these safety instructions when using the product:

1 Operation

- 1.1 Please use the product in the recommended operating environment.
- 1.2 Do not place the product in tilted position.
- 1.3 Do not place the product on an unstable trolley, stand or table.
- 1.4 Do not use this product near water or source of heat.
- 1.5 Use attachments only as recommended.
- 1.6 Use the type of power source indicated on the product. If you are not sure of the type of power available, consult your distributor or local electricity company for advice.
- 1.7 Always take the following precautions when handling the plug. Failure to do so may result in sparks or fire:
 - Ensure the plug is free of dust before inserting it into a socket.
 - Ensure that the plug is inserted into the socket securely.
- 1.8 Do not overload wall sockets, extension cords or multi-way plug boards to avoid potential risks.
- 1.9 Do not block the slots and openings in the case of the product. They provide ventilation and prevent the product from overheating.
- 1.10 Except as specifically instructed in this User Manual, do not open or remove covers, otherwise it may expose you to electric shock and other hazards. Refer all servicing to licensed service personnel.
- 1.11 Unplug the product from the wall outlet and refer servicing to licensed service personnel when the following situations happen:
 - If the power cords are damaged or frayed.
 - If liquid is spilled into the product or the product has been exposed to rain or water.

2 Installation

2.1 For security considerations, please make sure the standard hanging rack you bought is in line with UL or CE safety approbations and installed by technician personnel approved by agents.

3 Storage

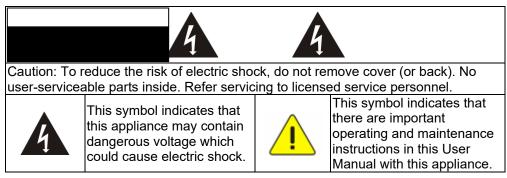
- 3.1 Do not place the product where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- 3.2 Never push objects of any kind through cabinet slots. Never allow liquid of any kind to spill into the product.
- 3.3 Unplug this product during thunderstorms or if it is not going to be used for an extended period.
- 3.4 Do not place this product or accessories on top of vibrating equipment or heated objects.

4 Cleaning

- 4.1 Unplug all the cables before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
- 5 **Remote control (if the accessories are equipped with remote control)**
- 5.1 Using an incorrect battery type in the remote control may result in breakdown. Follow local instructions on how to dispose of used batteries

Precautions

Warning: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. If Camera will not be used for an extended time, unplug it from the power socket.



FCC Warning

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

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

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

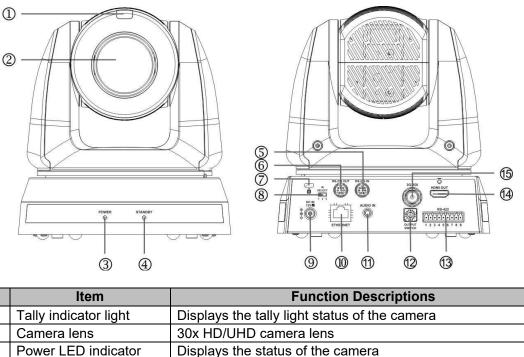
EN55032 (CE Radiation) Warning

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

Chapter 2 Package Contents CV630-IP M3 Screws **Remote Control** Silver x8 / Black x2 **Power Adapter RS-422** Connector **Power Cord** Appearance may vary depending on country/region Metal Plate B Metal Plate A P í Tì

Chapter 3 Function Introduction

3.1 I/O functions Introduction



NO.	Item	
1.	Tally indicator light	Displays
2.	Camera lens	30x HD/
3.	Power LED indicator	Displays
4.	Standby LED indicator	Displays
5.	RS-232 input	RS-232 serial co
6.	RS-232 output	RS-232 serial co
7.	Kensington lock hole	Lock ho
8.	IR SELECT	The rem specific
9.	DC 12 V power Port	DC pow
10.	Ethernet port	Network 802.3at)
11.	Audio input	Support
12.	OUTPUT Switch	Adjust th
13.	RS-422 Port	RS-422 in a seria
14.	HDMI output	HDMI ou
15.	3G-SDI output	3G/HD-S

s the status of the camera

input port, up to 7 cameras can be connected in a onnection

output port, up to 7 cameras can be connected in a onnection

ole of safety lock

note-control ID setting is set to match and control the corresponding Camera (up to three cameras)

ver supply connecting port

k cable port supports routers or hubs of PoE+ (IEEE t) with power supply

ts Line/Mic In

the resolution setting. The default is 1080p/59.94

connecting port; up to 7 cameras can be connected ial connection

utput (Audio output supported)

-SDI output (Audio output supported)

3.2 Description of LED indicator

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

3.3 Tally Indicator Light Function Description

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

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

p = 0: OFF

p = 4: Red light (half-brightness)

p = 5: Red light (full-brightness)

p = 6: Green light (full-brightness)

p = 7: Orange light (full-brightness)

Chapter 4 Instruction for installation

4.1 Preparation before installation

Installation and setup of CV630-IP cameras requires special skills. To install by yourself, please follow necessary steps, ensure steady and secure mounting of the device, and pay attention to your safety to avoid any accidents, drops, or damage.

- 4.1.1 Ensure the safety of the installation environment. Please do not install the device on unstable ceiling fixtures or in places where the device would be in danger of falling.
- 4.1.2 Please check whether accessories in the box are complete. Please contact the Marshall Electronics immediately for any shortages or missing items, and make sure to keep the accessories in the box if not used.
- 4.1.3 Please choose a proper place for installation of camera in advance. Please determine an installation spot according to the following requirements
 - Confirm the position of target objects to be captured.
 - Confirm camera position based on light, and proper distance from light sources.

4.2 Instruction for installation

4.2.1 I would like to install camera on the desk

- 4.2.1.1 **Precautions for installation**
 - Please install camera only on flat desk surfaces
 - Do not grab or carry the camera by the camera head
 - ◆ Do not rotate the camera head by hand, improper rotation may result in breakage of PT motors or gears of the camera





4.2.1.2 Installation steps

- 1. Please adjust DIP switch to desired resolution and framerate prior to installation. Please refer to Chapter 7 DIP Switch Setting for the relevant descriptions on DIP switch settings.
- 2. Place the camera only on flat desk surfaces to ensure integrity of normal vertical and horizontal axis of operation

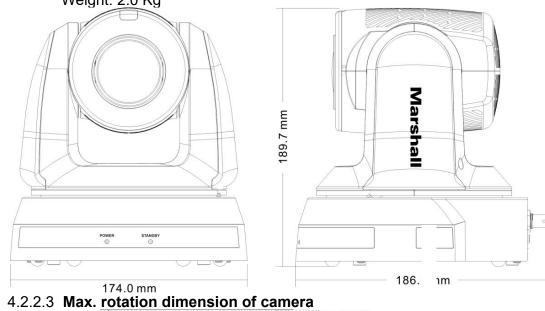


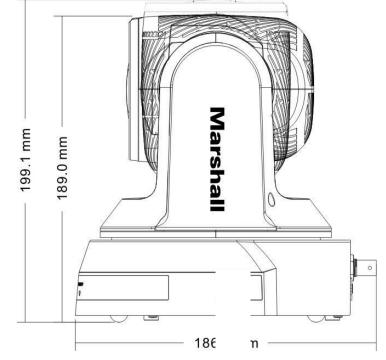
- 4.2.2 I would like to install the camera on the ceiling 4.2.2.1 Prepare for the parts and equipment required before the installation 1. Accessories in the box (metal plates A, B, M3 screw silver x 8, black x 2)
- 2. Set screws for locking camera on ceiling mounted hanger x 4
 - 3. Drill, screwdriver, and ladder

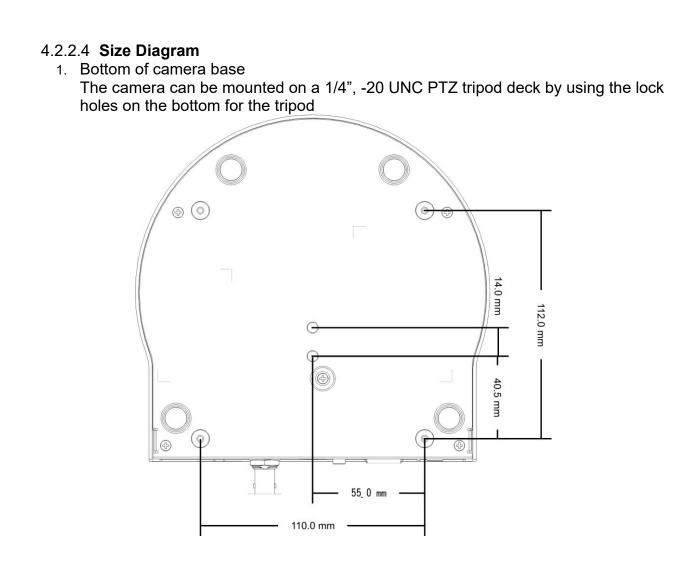


4.2.2.2 Camera Size

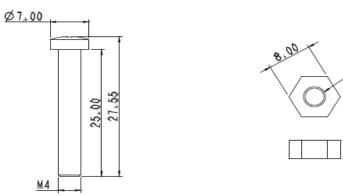
L x W x H : 174 x 186.1 x 189.7 mm Weight: 2.0 Kg





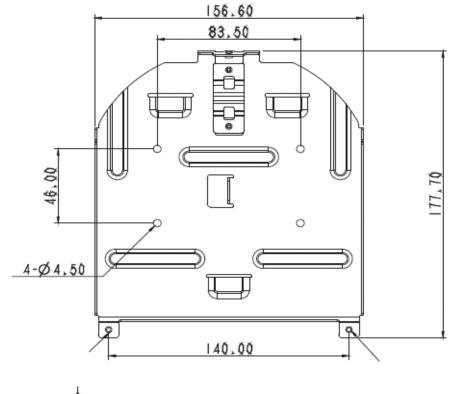


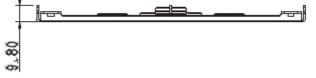
- Metal Plate size diagram 1.
 - Metal plate B ceiling side •

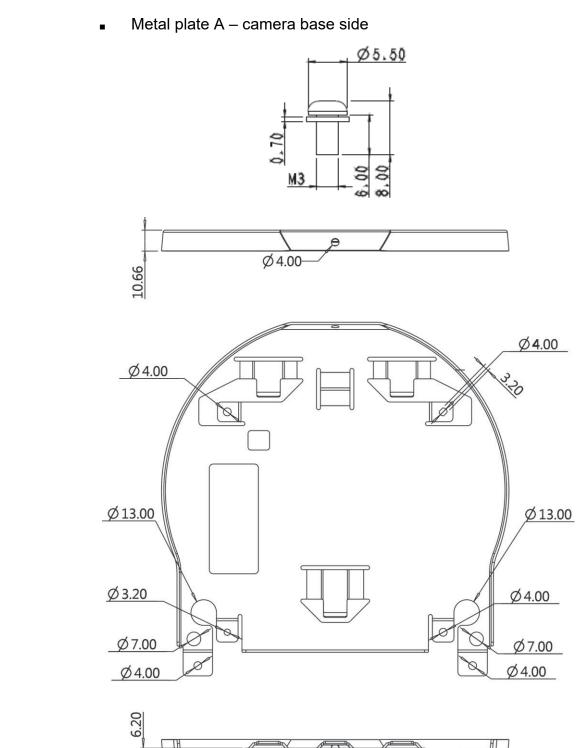


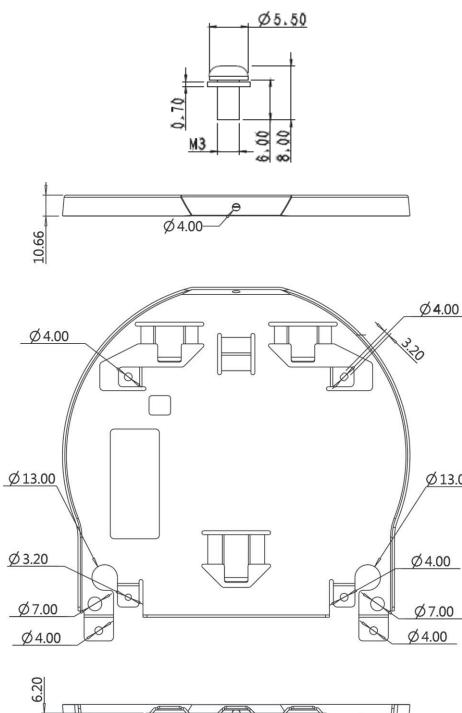


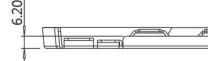
3,60







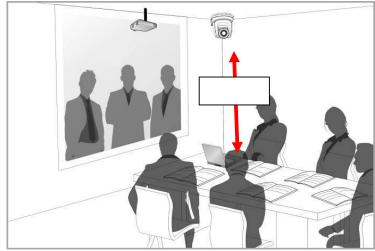






4.2.2.5 Precautions for installation

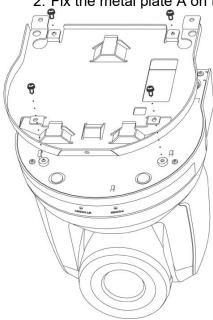
- 1. Prior to installation, please confirm the orientation of the camera relative to the object to be captured to ensure Horizontal and Vertical integrity axis.
- 2. It is recommended for camera be set at a distance of one (1) meter or more from the object to be captured. Please adjust for a best distance according to the magnification of the lens



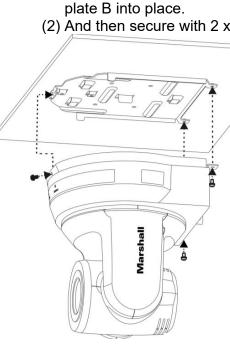
- 3. The camera (including metal plates) weights approximately 2.5 kg. If it is to be installed on the ceiling, please use the hanger that has obtained UL security approval to prevent the camera from coming loose and falling.
- 4. Please check that camera is securely installed on a regular basis.

4.2.2.6 Installation steps

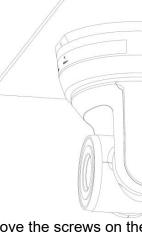
- 1. Please set desired resolution and framerate on Output Switch dial. Please refer to Chapter 7 DIP Switch Setting for the relevant descriptions on DIP switch settings.
- 2. Fix the metal plate A on the machine base with 4 M3 silver screws



3. Lock the metal plate B on ceiling mounted hanger X Caution: (1) Please use the hanger with UL security approval (2) Please make hole for connecting and running wires to the camera



4.2.2.7 How to remove



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4. Combine the metal plate A and the metal plate B (1) Push the metal plate A up to the ceiling and then to the right to latch the metal

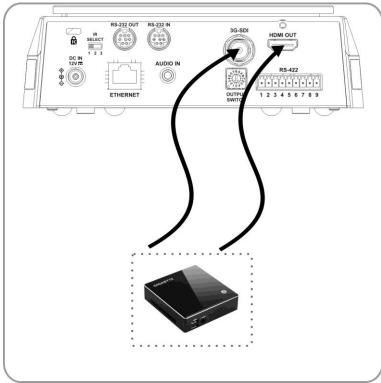
(2) And then secure with 2 x M3 silver screws and 1 x M3 black screw

1. Remove the connected cables and wires from the camera 2. Uninstall the camera attached to ceiling, loosen the three screws that fix the metal plates A and B and push to the left to remove the camera

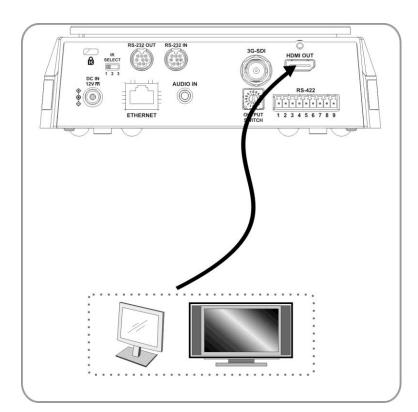
3. Then remove the screws on the hanger and the camera

4.3 Connecting devices

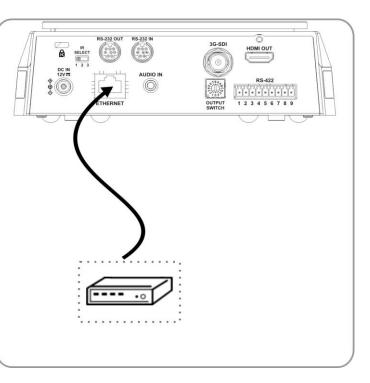
4.3.1 Connecting to PC (video conference) 3G/HD-SDI supports the audio output of 48 KHz only



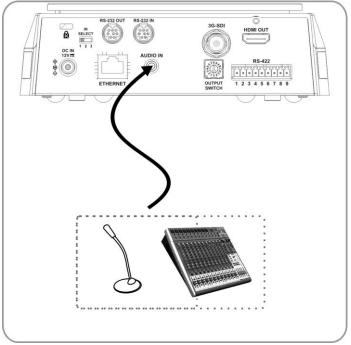
4.3.2 Connecting to an HDTV/computer monitor via HDMI



4.3.3 Connecting to Internet For details of web page setup and description, please refer to Chapter 6 Network **Function Settings Description**

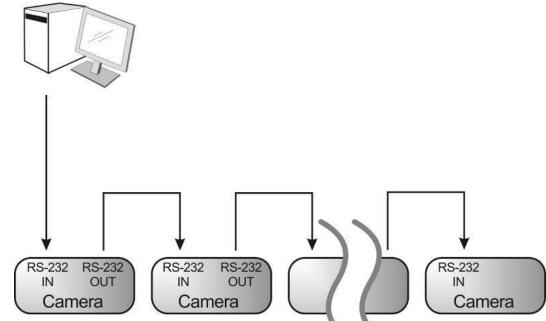


4.3.4 Connecting AUDIO IN Set the [Audio In] in the OSD to reflect the input device (mic or line level)



4.3.5 Connecting RS-232

Up to 7 Marshall PTZ cameras can be connected with RS232 daisy chain



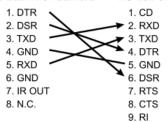
RS-232 pins definition instructions

▼ RS-232 IN Pins Instructions

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

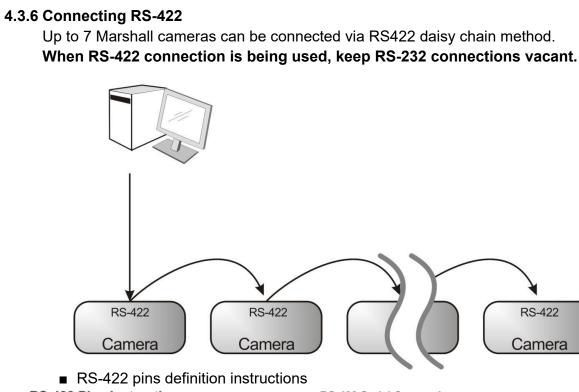
RS-232 IN of Camera RS-232 of PC



▼ RS-232 OUT Pins Instructions NO Pins Signals 1 DTR Data Transmission Reade 2 DSR Data Set Reade 876 3 TXD Transmit Data 5 4 3 4 GND Ground 21 5 RXD Receive Data 6 GND Ground OPEN Reserved 8 OPEN Reserved

▼ RS-232 Connection Instructions

(3-232 (onnec	tion instructio
RS-232		RS-232 OUT
of Next Ca	amera	of Last Camera
1. DTR		1. DTR
2. DSR		2. DSR
3. TXD		3. TXD
4. GND	\rightarrow	🗲 4. GND
5. RXD		→ 5. RXD
6. GND		6. GND
7. IR OU	Т	7. OPEN
8. N.C.		8. OPEN



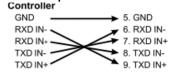
RS-422 Pins Instructions

	Pin NO.	Function
	1	RXD OUT-
RS-422	2	RXD OUT+
_[ԱլԱլԱլԱլԱլԱլԱլ	3	TXD OUT-
	4	TXD OUT+
1 2 3 4 5 6 7 8 9	5	GND
	6	RXD IN-
	7	RXD IN+
	8	TXD IN-
	9	TXD IN+

▼ RS-422 Connection Instructions —Applicable to

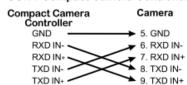
Lumens Compact Camera Controller

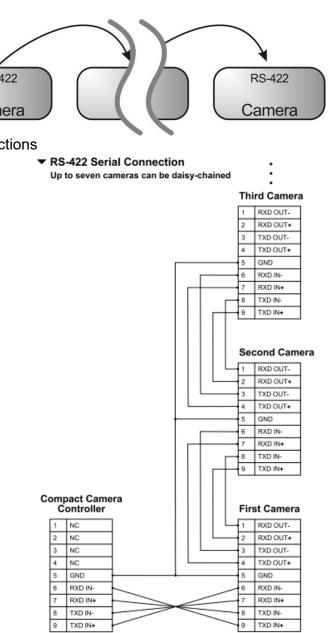
Marshall Compact Camera Controller



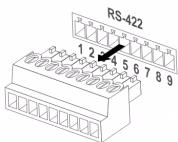
RS-422 Connection Instructions

Applicable to SONY Compact Camera Controller

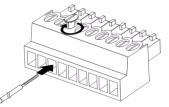




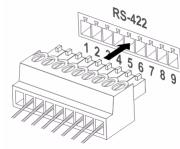
- RS-422 connection instructions
- 1. Hold the two sides of RS-422 connector and pull out in the direction shown by the arrow in the figure below



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



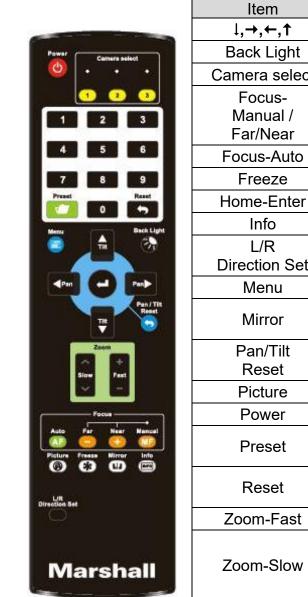
3. Insert the wired RS-422 connector back to the Camera. Now the connection is completed



Chapter 5 Remote Control and Setting Menu

5.1 Functions of remote control

<Remark> The below functions are listed alphabetically.



	Description
	Move the lens
t	Turn on/off back light compensation
ect	Choose Camera ID 1 ~ 3
	Turn on manual focus to adjust the focal length
C	Auto Focus
	Freeze the image on screen
er	Go back to the main page / Execute
	Status information
et	L/R Direction / Normal
	Display OSD menu
	Rotate the image (OFF / Mirror / Flip / Rotate)
	Clear the Pan / Tilt setting
	Switch image effect (OFF / Neg / B&W)
	Power Switch
	Appoint an ID $(0 \sim 9)$ to save the current position data
	Appoint an ID (0 ~ 9) to delete the current position data
t	Adjust image size
v	Fine-tune image size
-	

5.2 Setting Menu

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

1st Level	values in the following table are defaults. 1st Level 2nd Level 3rd Level						
Major Items	Minor Items	Adjustment Values		Function Descriptions			
	Mode	 Full Auto Shutter Pri Iris Pri Manual 		Exposure mode setting			
	Exposure Comp.	On / <u>Off</u>		AE Level			
	Exposure Comp. Level	-5 ~ <u>C</u> ~ 5		The value can be adjusted after <i>Exposure Comp.</i> is activated			
	Spot Light	On / <u>Off</u>					
	Spot Light Position	X (0 ~ 6) Y	′ (0 ~ 4)	The value can be adjusted after Spot Light is activated			
		60/30	50/25				
		mode	mode	-			
		1/10000	1/10000				
		1/5000	1/5000				
		1/3000	1/3000				
		1/2500	1/2500				
F		1/2000	1/1750				
Exposure		1/1500	1/1250				
		1/1000	1/1000				
		1/725	1/600				
		1/500	1/425				
	Shutter Pri	1/350	1/300	Adjustable when the			
		1/250	1/215	Exposure mode is set to Shutter Pri			
		1/180	1/150				
		1/120	1/120	1			
		1/100	1/100	1			
		1/90	1/75	1			
		<u>1/60</u>	<u>1/50</u>				
		1/30	1/25				
		1/15	1/12				
		1/8	1/6	1			
		1/4	1/3	1			
		1/2	1/2	1			
		1/1	1/1	1			
	Iris Pri	1. F1.6 2. F2		Adjustable when the Exposure mode is set to			

	3. F2.2 4. F2.7 5. F3.2 6. F3.8 7. F4.5 8. F5.4 9. F6.3 10.F7.8 11.F9 12.F11 13.F13 14.F16		Iris Pri
	15.F18		
	16.Close 1. <u>0 dB</u>		
Manual Gain	 3 dB 6 dB 9 dB 12 dB 15 dB 15 dB 21 dB 21 dB 24 dB 27 dB 10.27 dB 33 dB 36 dB 39 dB 4.39 dB 4.42 dB 4.45 dB 		Adjustable when the <i>Exposure mode</i> is set to <i>Manual</i>
	60/30 mode 1/10000 1/5000 1/3000 1/2500	50/25 mode 1/10000 1/5000 1/3000 1/2500	
	1/2000	1/1750	
	1/1500	1/1250	
	1/1000	1/1000	
Manual Speed	1/725	1/600	Manually set the shutter
	1/500	1/425	
	1/350	1/300	
	1/250	1/215	
	1/180	1/150	
	1/120	1/120	
	1/100	1/100	
	1/90	1/75	
	<u>1/60</u>	<u>1/50</u>	

		_		5. ATW
		-		6. Man 7. Sodi
		-		
		_		
		-	One Push	ENTER
			Trigger	
	2. F2 3. F2.2 4. F2.7		Manual Red	0 ~ <u>C</u> ~
	6. F3.8		Manual Blue	0 ~ <u>C</u> ~
Manual Iris	8. F5.4 9. F6.3 10.F7.8	Manually set the iris	Picture effect	1. <u>Off</u> 2. Neg 3. B &
			Sharpness	0 ~ <u>A</u> ~
	13.F13 14.F16 15.F18		2D NR	1. Off 2. <u>1</u> 3. 2 4. 3
	1. 9 dB 2. 12 dB 3. 15 dB		3D NR	1. Off 2. Low 3. <u>Typ</u> 4. Max
	5. 21 dB 6. 24 dB	Max limit value of electron	Image Mode	1. <u>Defau</u> 2. Custo
Gain Limit	7. <u>27 dB</u> 8. 30 dB 9. 33 dB 10.36 dB 11.39 dB 12.42 dB 13 45 dB	gain	Picture Image Mode Load	ENTER
	1. F3.2		Brightness	0 ~ <u>A</u> ~
Iris Limit	3. F4.5 4. F5.4	Max. limit value of iris	Hue	0 ~ <u>A</u> ~
	6. F7.8		Saturation	0 ~ <u>A</u> ~
	8. F11		Gamma	0 ~ <u>A</u> ~
WDR	2. 1 3. 2		Pan/Tilt Limit	On / <u>Off</u>
			Pan Tilt Pan Right Limit	t 0 ~ <u>170</u>
Mode	1. <u>Auto</u> 2. Indoor	mode	Zoom Pan Left Limit	<u>-170</u> ~ 0
	3. Outdoor	1. 4000k ~ 7000k 2. 3200k	Tilt UP Limit	0 ~ <u>90</u>
	Gain Limit	Manual Iris 3. F2.2 4. F2.7 5. F3.2 6. F3.8 7. F4.5 8. F5.4 9. F6.3 10. F7.8 11. F9 12. F11 13. F13 14. F16 15. F18 16. Close 1. 9 dB 2. 12 dB 3. 15 dB 4. 18 dB 5. 21 dB 6. 24 dB 7. 27 dB 8. 30 dB 9. 33 dB 10.36 dB 11.39 dB 12.42 dB 13.45 dB 11.39 dB 12.42 dB 13.45 dB 1. F3.2 2. F3.8 3. F4.5 4. F5.4 5. F6.3 6. F7.8 7. F9 8. F11 1. Off WDR 1. Off 2. 1 3. 2 4. 3 1. Auto 2. Indoor 2. Indoor	Image: Note of the image: No	Image Mode Max. limit value of electron Max. limit value of electron Picture Picture 1 1 8 10 <

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5. ATW 6. Manual 7. Sodium Lamp	 5800k 1700k ~ 10000k 1700k ~ 10000k Custom 2800k
ENTER	One push trigger
0 ~ <u>C</u> ~ 128	Adjustable when the white balance mode is set to <i>Manual</i>
0 ~ <u>C</u> ~ 128	Adjustable when the white balance mode is set to <i>Manual</i>
1. <u>Off</u> 2. Neg 3. B & W	
0 ~ <u>A</u> ~ 14	
1. Off 2. <u>1</u> 3. 2 4. 3 1. Off	
1. Οπ 2. Low 3. <u>Τγρ</u> 4. Max	
1. <u>Default</u> 2. Custom	The user may customize his/her desired image mode
<u>ENTER</u>	Adjustable when the <i>Image</i> <i>mode</i> is set to <i>Custom</i> . After selected, the corresponding <i>Image mode</i> parameters will be read and applied to <i>Custom</i>
0 ~ <u>A</u> ~ 15	Adjustable when the <i>Image mode</i> is set to <i>Custom</i>
0 ~ <u>A</u> ~ 15	Adjustable when the <i>Image mode</i> is set to <i>Custom</i>
0 ~ <u>A</u> ~ 15	Adjustable when the <i>Image mode</i> is set to <i>Custom</i>
0 ~ <u>A</u> ~ 3	Adjustable when the <i>Image mode</i> is set to <i>Custom</i>
On / <u>Off</u>	Turn on/off the angle limit setting
0 ~ <u>170</u>	Limit the right angle
-170 ~ 0	Limit the left angle
0 ~ <u>90</u>	Limit the upward angle

	Tilt Down Limit	<u>-30</u> ~ 0	Limit the downward angle
Pan Flip		On / <u>Off</u>	Activate the reverse Pan command
	Tilt Flip	On / <u>Off</u>	Activate the reverse Tilt command
	Preset Speed	 5 deg/sec 25 deg/sec 50 deg/sec 80 deg/sec 120 deg/sec 120 deg/sec 200 deg/sec 300 deg/sec 	Set the rotation speed of the cradle head when Preset is executed
	PTZ Speed Comp	On / <u>Off</u>	Set the Pan/Tilt moving speed to vary from the zoom position
D-Effect	Mirror	1. <u>Off</u> 2. Mirror 3. Flip 4. Mirror + Flip	Set the mode at which the image is turned
Auto Focus	AF Sensitivity	1. Low 2. <u>Middle</u> 3. High	For AF triggering speed, the higher the speed is, the faster AF is triggered
	AF Frame	1. Center 2. Full Frame 3. <u>Auto</u>	AF frame setting, when central area was set as AF frame, focusing will be on the center of the screen. When Full Frame was set as AF frame, focusing will be calculated based on the full screen
	PTZ Assist	On / <u>Off</u>	Turn on the auto focus function in Manual
Ethernet	DHCP	<u>On</u> / Off	Enable/Disable DHCP setting using left and right arrow keys and press [ENTER] to apply setting.
	IP Address	<u>192.168.100.100</u>	Press [ENTER] to be in modify mode; select the item to be modified using the up and down keys, and modify the value using the left and right keys or the numeric keys.
	Subnet Mask	<u>255.255.255.0</u>	Press [ENTER] to be in modify mode; select the item to be modified using the up and down keys, and modify the value using the left and

			right keys or the numeric keys.
	Gateway	<u>192.168.100.254</u>	Press [ENTER] to be in modify mode; select the item to be modified using the up and down keys, and modify the value using the left and right keys or the numeric keys.
	Audio In	<u>Line In</u> /Mic In	Set Audio In
Audio	Audio Enable	On / <u>Off</u>	Turn on/off audio output
	Audio Volume	0 ~ <u>A</u> ~ 10	Volume Setting
	Encode Sample Rate	1. <u>48 KHz (AAC)</u> 2.44.1 KHz (AAC) 3.16 KHz (G.711) 4.8 KHz (G.711)	Set the encode type and sample rate SDI supports the audio output of 48 KHz only
	Prompt	On / <u>Off</u>	Turn on/off the prompt information on the display
	IR Receive	<u>On</u> / Off	
	Tally Lamp	<u>Enable</u> / Disable	
	Language	<u>English</u> / Chinese	
	Initial Position	<u>Last MEM</u> / 1st Preset	Set the camera lens to return to the last operated position or the first preset position after POWER ON
	Control Device	Encoder / <u>Controller</u>	Control Device setting, Controller: for joystick Encoder: for tracking system
System	Motionless Preset	On / <u>Off</u>	When the function is enabled, the screen will Freeze when Preset is executed. Freeze will be released after Preset is completed.
	Control Port	RS-232 /RS-422	Choose whether the control interface used is RS-232 or RS-422
	Protocol	<u>VISCA</u> /Pelco D	
	Baud Rate	<u>9600</u> /38400	Choose the transmission speed of the control signal
	VISCA Address	<u>0</u> ~ 7	
	Pelco D Address	<u>1</u> ~ 255	The Protocol set to Pelco D allows the camera ID address to be assigned

	Output Mode	 3840 x 2160/29.97p 3840 x 2160/25p <u>1080p/59.94</u> 1080p/50 1080p/29.97 1080p/25 720p/59.94 720p/50 720p/29.97 720p/29.97 720p/29.97 	Choose the output resolution
	Factory Reset	On / <u>Off</u>	Resume the factory default setting
Status			Display the current setting status

Marshall

Chapter 6 Network Function Settings Description

6.1 Connecting Camera to IP Network

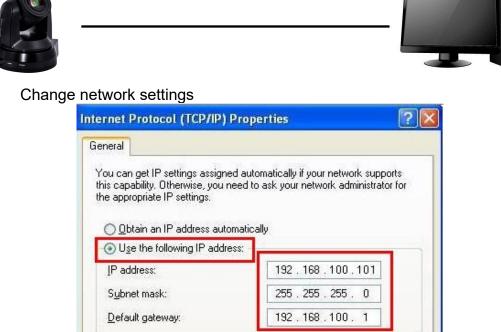
6.1.1 Connecting to Internet

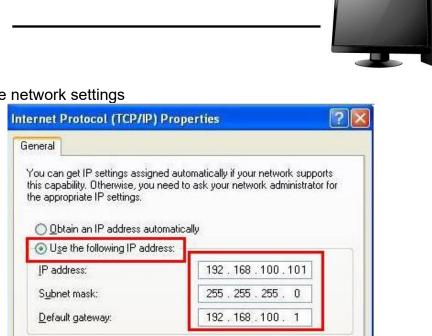
- Two common connection methods are shown below
- 1. Connecting via switch or router





•





2. To connect directly through network cable, the IP address of the computer should be changed so that it is on the same network segment as the camera e.g.: The factory-preset default IP address of CV630-IP 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

6.1.2 Using the Browser to View the Images

- Open the browser, and enter the URL of CV630-IP in the IP address bar e.g.: http://192.168.100.100 (default IP address)
- Enter administrator's account and password



Marshall IP Camera I Account: admin I Password: 9999

- 6.1.3 Using Marshall VMS Software to View the Images
 - Open *MARSHALL VMS* software
 - Search for the camera: Press Search for the device] button to locate the CV630-IP camera
 - Click CV630-IP in the list and start operation after connecting to network
 - <Note> When using automatic search, the camera and computer must be in the same network segment, e.g.: 192.168.4.X

6.1.4 Using RTSP Player to View the Images

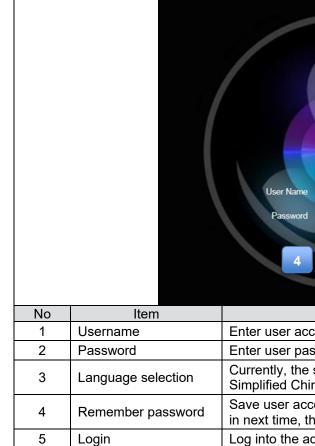
In addition to the software GUI in internet browser and VMS, other free software als can be used for RTSP connections, such as VLC, Quick Time and PotPlayer RTSP connection address formats are as follows:

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

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

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

6.2 Web Page Function Description 6.2.1 Login Screen

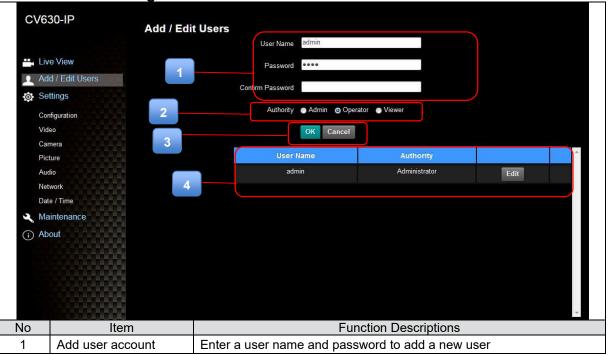


I I <td></td>	
Function Descriptions	
count (default: admin)	
ssword (default: 9999)	
system supports English, Traditional Chinese and nese	
count name and password to the browser. When you log nere is no need to re-enter them	
dministrator screen on the website	

6.2.2 Viewing In Real Time

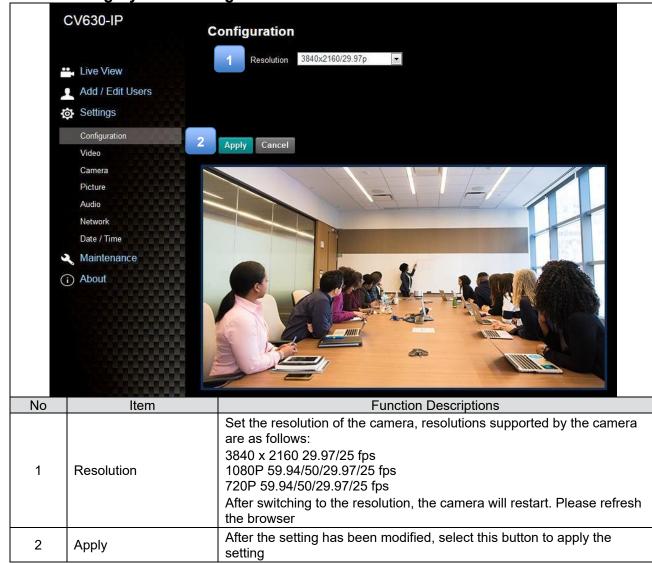
	CV630-IP	
	← → ♂ ☆ [0 2 10.1.11.222/en/liveView.html
	CV630-IP	Live View 5
	🚔 Live View 👤 Add / Edit Users 🧑 Settings	Pan/Tik Tit 4 preset Pan/Tik 7 $1 2 3$ Pan $\leftarrow \square \rightarrow Pan$
	Configuration Video Camera	
	Picture Audio Network	0 Clean Save Load
	Date / Time Maintenance About	
No	Item	Function Descriptions
1	Pan / Tilt setting	Adjust the Pan/Tilt position of the camera screen
2	Zoom ratio	Adjust the zoom-in or zoom-out ratio via scroll bar
3	Preview window	Display the screen currently captured by the camera
4	Preset setting	Select the number first and then select SAVE or LOAD
5	Power button	Turn on or turn off the camera power
6	Switch to Full Screen	Switch the preview window to full screen

6.2.3 Account Management



		User Type	Admin	Operator	Viewer
		View images	V	V	V
		Settings	V	V	Х
2	Permission setting	Account management	V	X	X
3	Applying setting	Add the newly cr	eated user to t	he list of account	
4	List of accounts	Edit: Modify the u	Edit: Modify the user password and permissions Delete: Delete the user account		

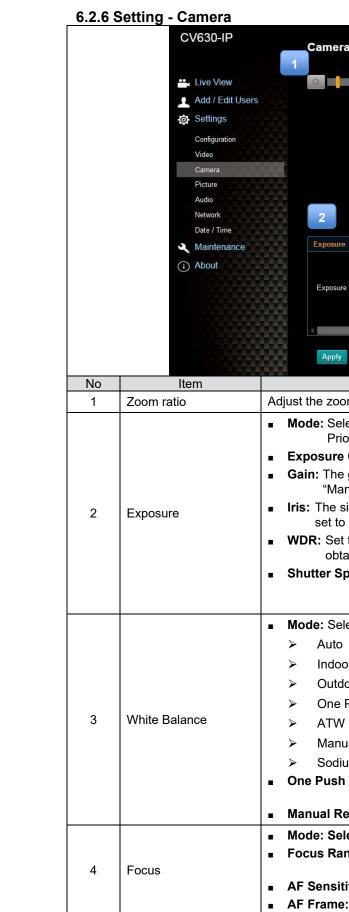
6.2.4 Setting-System Setting



6.2.5	Setting - Video			
	CV630-IP	Video Camera ID CV630-IP		
	🛀 Live View	2 Location Default		
	Add / Edit Users			
	Settings	Stream 1 Stream 2 Stream 3		
	Configuration	Codec H.264		
	Video			
	Camera	Resolution 1080P 👻		
	Picture	Frame Rate 29.97 r fps		
	Audio	Bit Rate 7000 kbps		
	Network	Rate Control CBR		
	Date / Time	IP Ratio 15		
	·	Force Frame		
	(i) About	5		
		Apply Cancel		
No	Item	Function Descriptions		
		Modify the camera name		
1	Camera name	 Camera names are limited to 1 - 12 characters 		
		 Please use a camera name by mixing uppercase and lowercase letters or numbers. Do not use "/" and "space" or special symbols 		
		Modify the location of the camera, such as Meeting Room 1		
0	Camera Location	 Camera location is limited to 1 - 12 characters 		
2	Camera Location	 Please use a camera name by mixing uppercase and lowercase letters or numbers. Do not use "/" and "space" or special symbols 		
	Streaming 1/			
3	Streaming 2/ Streaming 3	CV630-IP supports 3 streaming outputs. Please refer to <u>6.2.5.1</u> <u>Streaming Parameter Setting</u> for relevant settings		
4	Open Streaming	Confirm whether or not the streaming function is opened		
5	Force I Frame	Check this item to insert IDR frame into specified series flow and apply its setting. User's setting will be reserved and displayed in GUI interface		

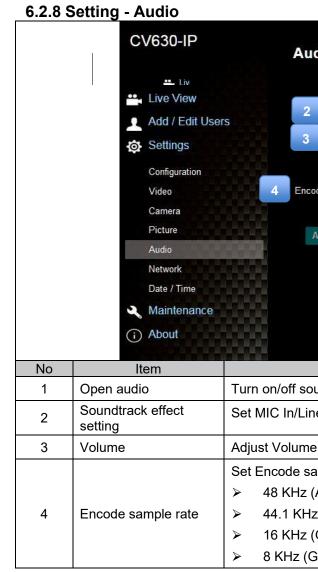
6.2.5.1 Streaming parameter setting

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



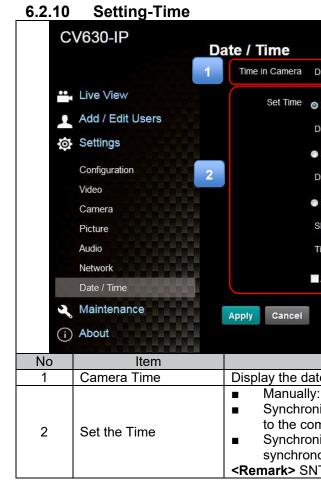
a
<u>o.</u> 1.5
3 4 5
White Balance Focus Mirror
Mode Full Auto
Gain 0 dB Shutter Speed 1/30
Cancel
Function Descriptions
m-in or zoom-out ratio via scroll bar
ect exposure mode (Automatic/Shutter Priority/Aperture prity/Manual)
Comp. Level: Select exposure compensation level
gain limit is adjustable when the exposure mode is set to nual"
ize of aperture is adjustable when the exposure mode is "Manual" or "Aperture Priority"
the level of wide dynamic range (WDR) in order to ain better images
beed: The shutter speed is adjustable when the
exposure mode is set to "Manual" or "Shutter Priority"
ect the color temperature mode
_
or
Push WB
ial
Im Lamp
WB: One push color temperature is adjustable when the white balance mode is set to "One Push WB"
ed/Blue: Manually adjust blue/red color temperature
ect manual/automatic focus
nge: The focusing range is adjustable when the focus mode is set to "Manual"
ivity: Set automatic focus sensitivity
: Set automatic focus range

5	Mirror	Mirror: Set automatic flip mode
27	Setting - Picture	
.2.1		
	CV630	D-IP Picture
		Picture Effect Off
	🛀 Live	View 2D NR 1 2
	Add /	/ Edit Users
	🔅 Settin	ngs
	Config	uration
	Video	Image Mode Load Default - 5
	Came	Gamma 3 C
	Audio	Brightness 7 7
	Netwo	rk Jan
	Date /	
	Abau	
	(i) Abou	Sharpness 7 10
No	Item	Function Descriptions
1	Picture Effect	Set picture effect, Off/Neg/Black and White
2	2D noise reduction settings	2D noise reduction settings
3	3D noise reduction settings	3D noise reduction settings
4	Image mode	The user may customize his/her desired image mode
5	Image Mode Load	When no custom setting is needed, reset the picture parameters back to the factory default by selecting this item
6	Gamma	Gamma Level adjustment; Adjustable when the image mode is set to Custom
7	Brightness	Brightness adjustment; Adjustable when the image mode is set to Custom
-		Contrast adjustment; Adjustable when the image mode is set to
8	Contrast	Custom
	Contrast Saturation	Custom Saturation adjustment of the image; Adjustable when the image mode is set to Custom

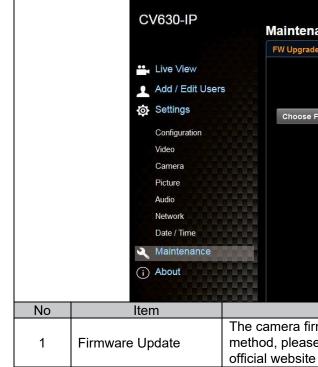


dio 1	Audio Enable
Audio In Type	Line CV630-NDI
Audio Volume	6
Encode Type	AAC
ode Sample Rate	48 KHz
Apply Cancel	
Fi	unction Descriptions
und	
ie In	
9	
ample rate	
AAC)	
z (AAC)	
G.711)	
6.711)	

CV630)-IP	Network Network	
😬 Live \	/iew	DHO	
Add /	Edit Users	IPv4 Addres	3 RTSP
🔅 Settin		IPv4 Netma	
Config	puration	IPv6 Addres	4 MPEG-TS
Video		IPv6 Netma	
Came Picture		Gatewa	MPEG-TS IP Port 0
Audio		D	NS 8.8.8
Netwo Date /	and the second se	MAC Addres	SRT
Maint			Apply
(i) Abou			Destination IP Port 0
		RTMP	Latency 120 ms
	2	Publish to Server	Encryption None
		Video encoder type :	Describer
		Audio encoder type : Resolution format : 10	Connect Status : SRT Disable
	10000000	Chunk size : 1412	
		RTMP Server Status	
		RTMP URL	SNTP Server pool ntp.org
			6 Port Setting
			HTTP Port 80 HTTPS Port 81
No	Item	n	Function Descriptions
			Network setting of camera. Change of setting is available when DHC
1	Network		function is closed.
			Copy the RTMP web address provided by the RTMP service platform and paste it to the RTMP connection address to publish the camera
2	RTMP Setting	g	images on the RTMP service platform
			To upload to YouTube for live streaming, the audio function must be turned on first
			Enable/Disable Multicast. It is suggested to enable Multicast when the
3	RTSP Setting	r	number of users online watching the live image simultaneously is mo
U		0	than 4
			Set MPEG-TS format
			Remark > The following port has been used by the camera. Setting
	MPEG-TS Se	etting	the port may not connect correctly
4			8554, 8556, 8557, 8080, 80, 81, 9090, 23
4			
4	SNTP Setting	q	Set SNTP Server IP
	SNTP Setting)	
	SNTP Setting)	Set SNTP Server IP Set HTTP port. The default Port value is 80 <remark> Change of setting is available only when DHCP function of</remark>







Date 2014/10/10 Time 00:37:02			
9 Set Manually			
Date 2020/1/30 Time 09 F Hr : 00 Min : 30 Sec			
Synchronize with Computer Time			
Date 2020/1/30 Time 09:00:36			
Synchronize with SNTP Server			
SNTP Server pool ntp.org			
Time Zone GMT+08 Taipel, Beijing, Chong ~			
Automatically Adjust for Daylight Saving Time			
Function Descriptions			
te and time of the camera			
: Set time manually			
nize with computer time: Set the camera time according			
mputer time			
ize with SNTP server: Set the camera time			
ously with the SNTP server			

<Remark> SNTP server address: Please change in network setting

an	ice			
le	Error Log	System Service		
-				
File			Upgrade	
		unction Descr		
				ige. For the upgrade
ec	download	the FW upgra	ide manual	from Marshall
;				

6.2.12 Maintenance - Incident Log

	CV630-IP	Maintenan	ce	
		FW Upgrade	Error Log	System Service
	Live View	Error Log 00 0	0 00 00 00 00 0	00 21 00 00
	Add / Edit Users	00 0	0 00 00 00 8d 0	00 00 00 00
	🔅 Settings	00 00 a2 00 00 00 00 00 00 00 04 04 06 08 00 00 00 00 10 00 00 00 00 00 00 00 00 00		0 00 01 00
	Configuration	CI	ean	
	Camera			
	Picture			
	Audio			
	Network			
	Date / Time			
	🔍 Maintenance			
	(i) About			
No	Item			Function Descriptions
1	Event Logs	If the cam	era encoui	nters errors, an error code log will be established

6.2.13 Setting - Maintenance - System Service

CV	/630-IP Mainten	nance	
FW Upgrade Error L Add / Edit Users Add / Edit Users Factory Reset Factory Reset Factory Reset Factory Reset Configuration Video Camera Picture Audio Network Control Port Pro		I Reset Profile I Save IPort Protocol Baud Rate VISCA Address Pelco D Address port RS-232	
No	Item	Function Descriptions	
1	Reset to the default value	Select the reset button to resume the factory default setting as the web page setting	
2	2 Setting File The web page setting parameters can be exported from the com and imported/applied to another camera		
3	Baud Rate	Set the camera Baud Rate for the use of connecting RS-232 communication	

6.2.14	About	
CV	630-IP Ab	out
	Live View Add / Edit Users Settings Configuration Video Camera Picture Audio Network Date / Time Maintenance	Camera ID Image: Comparison of the second secon
\odot	About	
No	Item	
1	Camera name	Display the car
2	Firmware Version	Display the firm
3	Serial No.	Display the car

1000 10				
V630-IP				
SU100_VSV101_VSW111d_	VSX111d_VAA135	_VSY104_VAB1	07a_VAC100	
16403240		_		
A6A02249				
Function	Descriptions	S		
mera name				
mware version of th	e camera			
mera serial No.				

Chapter 7 DIP Switch Setting

7.1 DIP SWITCH

7.1.1 OUTPUT Switch

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

6	FOT	
0		TU2
0	F	50
V	68	5

ID	Resolution	Frame Rate
0	2040 x 2460	29.97
1	3840 x 2160	25
2		59.94
3	1920 x 1080	50
4	1920 X 1060	29.97
5		25
6		59.94
7	1280 x 720	50
8	1200 x 720	29.97
9		25
Α		
В		
С	Deserved	Reserved
D	Reserved	Reserved
E		
F		

7.1.2 IR SELECT

	ID	Setting
	1	
1 2 2	2	
123	3	

Chapter 8 Troubleshooting

This chapter describes problems you may encounter while using CV630-IP. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurred, please contact your distributor or Marshall IP technical support.

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+ (IEEE 802.3at) hubs
2.	There is no image output from CV630-IP	 1. Check the power supply or PoE supply functions. 2. Confirm the output signals are in streaming output. 3. Confirm whether the camera resolution can be used together with the monitor equipment If 4k output, confirm the monitor equipment supports 4K output 4. Replace the cables and make sure they are not faulty.
3.	CV630-IP 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 Chapter 6 Network Function Description for the Internet usage

Warranty

Marshall Electronics warranties to the first consumer that this device will, under normal use, be free from defects in workmanship and materials, when received in its original container, for a period of three years from the purchase date. This warranty is extended to the first consumer only, and proof of purchase is necessary to honor the warranty. If there is no proof of purchase provided with a warranty claim, Marshall Electronics reserves the right not to honor the warranty set forth above. Therefore, labor and parts may be charged to the consumer. This warranty does not apply to the product exterior or cosmetics. Misuse, abnormal handling, alterations or modifications in design or construction void this warranty. No sales personnel of the seller or any other person is authorized to make any warranties other than those described above, or to extend the duration of any warranties on behalf of Marshall Electronics, beyond the time period described above.

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