Broadcast A/V Division

CV420-30X

Compact 4K60 30X Zoom Camera 12GSDI, HDMI, and IP (HEVC)



User Manual

Table of Contents

Safety Instructions	02
1. Package Contents ······	04
2. Function Introduction ······	04
2.1 I/O Functions Introduction	04
2.2 Tally Indicator Light Function Description ·····	05
3. Installation Instructions	05
3.1 Installation Basics	05
3.2 Connecting Devices ······	06
4. Network Function Settings	09
4.1 Web System Requirements ·····	09
4.2 Connecting Camera to Network ·····	09
4.3 Web Page Function Description ·····	12
6. Troubleshooting	24
Warranty	25

Safety Instructions _____ 1. Operation

- 1.1 Use camera in the recommended operating environments.
- 1.2 Do not place the camera in tilted position.
- 1.3 Do not place the product on an unstable cart, stand or table.
- 1.4 Do not use this product near water, extreme humidity or high heat.
- 1.5 Use recommended 1/4"-20 mounts and attachments.
- 1.6 Use the power supply that is provided in box.
- 1.7 Always take the following precautions when handling the power plug. Failure to do so may result in sparks, shock or fire:
- Ensure the plug is free of dust before inserting it into a socket.
- Ensure that the plug is inserted into the socket completely and securely.
- 1.8 Do not overload wall sockets, use long extension cords, or plug camera into multioutput power strips.
- 1.9 Do not block vents on the camera body as they provide ventilation and prevent the product from overheating.
- 1.10 Do not open or remove camera body, camera warranty is void if opened.
- 1.11 Unplug the product from the wall outlet and consult a licensed service technician when the following conditions arise:
- f 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 consideration, please make sure any mounts that are used are standard UL or CE safety certified and installed by technician personnel.

3. Storage

- 3.1 Do not mount camera where power cord can be stepped on, as this may result in fraying or damage to the lead or the plug.
- 3.2 Never allow debris or objects of any kind to penetrate camera body. Never allow liquid of any kind to spill onto or into the camera body.
- 3.3 Unplug this product during thunderstorms, during electrical surges, or if it is not going to be used for an extended period of time.
- 3.4 Do not place camera or accessories on top of vibrating equipment or heated objects.

4. Cleaning

or aerosol cleaners or allow any liquids to enter camera body.

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4.1 Unplug all the cables before cleaning. Use a damp cloth for cleaning. Do not use liquid

Precautions

Warning: To reduce the risk of fire or electric shock, do not expose this camera to rain, moisture, debris or liquids.

If the HD camera will not be used for an extended time, unplug it from the power socket.



Caution: To reduce the risk of electric shock, do not remove cover (or back). No userserviceable parts inside. Refer servicing to licensed service personnel. Please do not open it by yourself



This symbol indicates that this equipment may contain dangerous voltage which could cause electric shock.

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

FCC Warning

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

This digital apparatus does not exceed the Class B 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 B 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.

1. Package Contents _



2. Function Introduction _

2.1 I/O functions Introductions



10

Item.	Function Descript
Lens	30x HD/UHD came
Tally indicator light	Tally light displays
Power indicator light	After power is on, t
12G-SDI output	12G-SDI output
HDMI 2.0 output	HDMI 2.0 output
Network port	Network port. Sup
Audio input	3.5mm Audio Input
Audio output	Loop-through 3.5m
Rest	Factory Reset and
DC 12 V power connector	AC power supply c
RS232 output	RS232 output port
RS232 input	RS232 input port.
Tripod screw holes	1/4", 20 UNC tripod
	Tally indicator lightPower indicator light12G-SDI outputHDMI 2.0 outputNetwork portAudio inputAudio outputRestDC 12 V power connectorRS232 outputRS232 input

Power Cord



*Appearance may vary depending on country/region

Power Adapter





otions

iera lens

s status of the camera

the indicator light will display in red

oport routers or hubs (IEEE 802.3 af) with PoE power supply support

ut supports Line-level or Mic-level Stereo/Mono input

mm Output

reset static IP to default value

connecting port

t. At most 7 cameras can be connected in a serial connection

At most 7 cameras can be connected in a serial connection

deck

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2.2 Tally Indicator Light Function Description

2.2.1 The tally indicator light function may be enabled through the control of RS232 command. The setting method is as follows: Tally Mode : 8x 01 7E 01 0A 01 0p FF

p = 0 : OFF

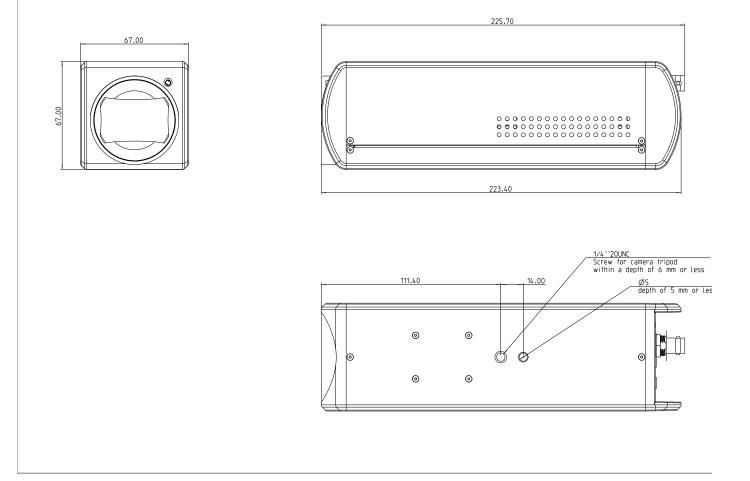
p = 4 : On (half-brightness)

p = 5: On (full-brightness)

3. Installation Instructions _

3.1 Installation Basics

3.1.1 CV420-30X Dimensions



3.2 Connecting devices

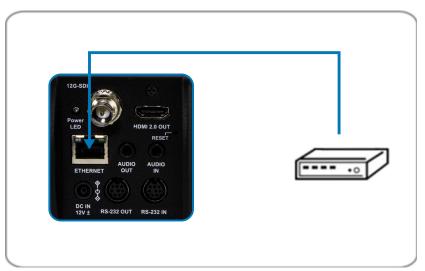
3.2.1 SDI and HDMI connection to TV/display screen





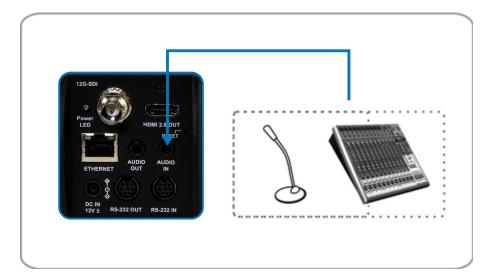


3.2.2 Connecting to Internet



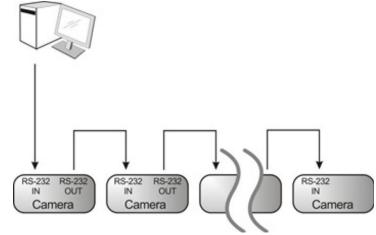
For details of web page connection setting and description, please refer to Chapter 5 Network Function Settings Description.

Connecting AUDIO IN 3.2.3



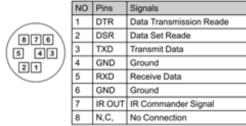
3.2.4 Connecting RS-232

CV420 camera includes a RS232 IN and OUT for Daisy Chain style connections, or can be setup via home run using splitters (use CV620-CABLE-07 extenders to convert to CAT RJ45 cables for longer runs).



• RS-232 pin definition description

RS-232 IN Pins Instructions



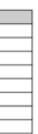
RS-232 Connection Instructions RS-232 IN of CV420 RS-232 of PC 1. DTR 1. CD 2. DSR 2. RXD 3. TXD 🕶 3. TXD 4. GND 4. DTR 5. RXD 5. GND 6. GND 6. DSR

7. RTS

8. CTS 9. RI

7. IR OUT

8. N.C.



RS-232 OUT Pins Instructions

	NO	Pins	Signals
\frown	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

RS-232 IN of Next Camera	RS-232 OUT of Last Camera
1. DTR	1. DTR
2. DSR	2. DSR
3. TXD	3. TXD
4. GND ->	< the design of
5. RXD	5. RXD
6. GND	6. GND
7. IR OUT	7. OPEN
8. N.C.	8. OPEN

4. Network Function Settings _

4.1 Web System Requirements

- 4.1.1 Web Browser:
 - Internet Explorer 11 or above
 - FireFox 66.0.3 or above
 - Chrome 73 or above •
 - Edge 42.17134 or above •
 - Safari 12.1 or above •

Connecting Camera to Network 4.2

4.2.1 Connecting to Internet

Two common connection methods are shown below

1. Connecting via switch or router



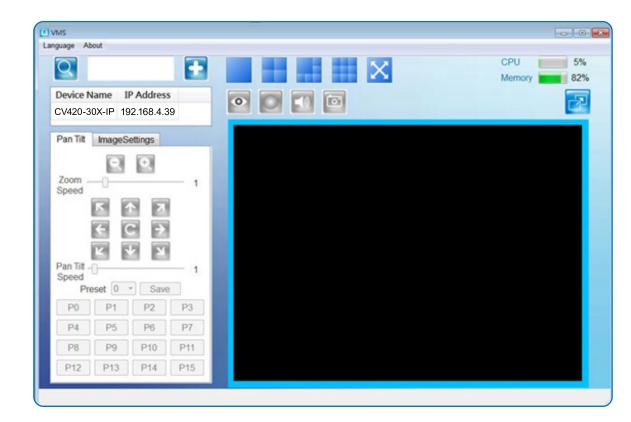
- 2. If the camera is connected to the computer directly, the computer IP address must be modified to have the same network segment as the camera For example, the factory-preset default IP address of CV420-30X is 192.168.100.100. The computer IP address must be set with the same subnet, such as 192.168.100.101, so that the computer can be connected correctly with the camera
 - Connection Diagram
 - Change network settings

eneral	
You can get IP settings assigned aut his capability. Otherwise, you need t he appropriate IP settings.	
O Dotain an IP address automatic	ally
Use the following IP address:	
	ally
Use the following IP address:	

4.2.2 Using Marshall VMS Software to View the Images

- The CV420-30X DHCP initial setting is ON. If it is connected to the local area network (LAN), the camera IP can be retrieved via the following methods
- Install Marshall VMS software (Please download from the Marshall official website, www. marshall-usa.com)
 - Open Marshall VMS software
 - CV420-30X camera
 - Click CV420-30X 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



Suggested minimum system requirement for HEVC 4K60 IP Streaming:

- Windows 10
- CPU: Intel i5 (7th gen and above)
- GPU: intel (7th gen and above) or Nvidia GTX 1050 and above
- Memory: 8GB(64-bits) RAM
- Ethernet : Gigabyte
- 1GB Free Disk Space

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• Search for the camera: Press [automatically search for the device] button to locate the

4.2.3 Using the Browser to View the Images

- Open the browser, and enter the URL of CV420-30X in the IP address bar e.g.: http://192.168.100.100 (default IP address)
- Enter administrator's account and password Account: admin (Default) Password: 9999 (Default)



4.2.4 Using RTSP Player to View the Images

Besides the browser and VMS, other free software also can be used for RTSP connection, such as VLC, Quick Time, PotPlayer, and other free software

RTSP connection address formats are as follows:

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

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

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

4.3 Web Page Function Description

4.3.1 Login Screen



No.	Item.	Function Description
1	Username	Enter user account na
2	Password	Enter user password
3	Language selection	The system currently
4	Remember password	Saves user account n
5	Login	Log into the administr

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ons

ame (default: admin)

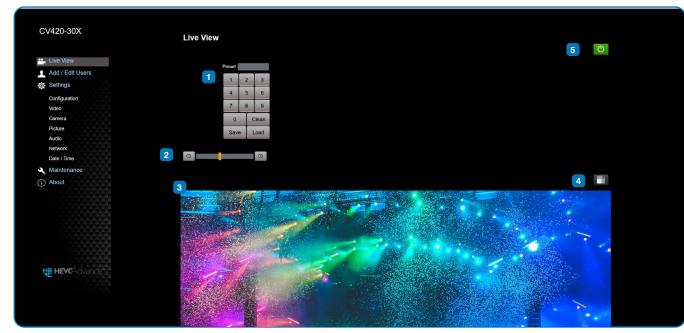
(default: 9999)

supports English, Traditional Chinese, and Simplified Chinese

name and password to the browser.

trator screen on the website

4.3.2 Viewing In Real Time



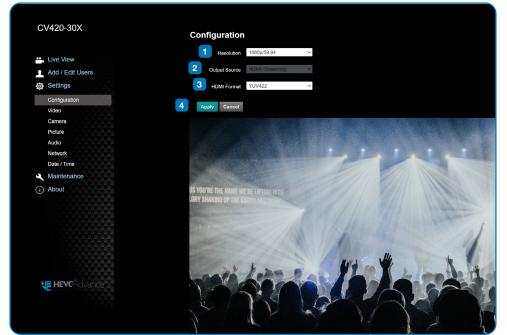
No.	Item.	Function Descriptions	
1	Preset setting Select the number first and then select SAVE or LOAD		
2	Zoom ratio	Adjust the zoom-in or zoom-out ratio via scroll bar	
3	Preview window	Display the screen currently captured by the camera	
4	Switch to Full Screen	Switch the preview window to full screen	
5	Power button	Turn on or turn off the camera power	

4.3.3 Account Management



No.	Item.	Function Description	Function Descriptions				
1	Add user account	Enter a username and	Enter a username and password to add a new user				
2	Permission setting	ting Set the new account management permissions					
		User Type	Admin	Operator	Viewer		
		View images	Y	Y	Y		
		Settings	Y	Y	N		
		Account management	Y	N	Ν		
3	Applying setting	Add the newly created	Add the newly created user to the account list				
4	List of accounts	Edit: Modify the user password and permissions					

4.3.4 System Configurations



No.	Item.	Function Descriptions				
1	Resolution	Set the resolution of the came 3840x2160P 59.94/50/29.97 f 1080P 59.94/50/29.97/25 fps 1080i 59.94/50 720P 59.94/50/29.97/25 fps	Set the resolution of the camera. Resolutions supported by the camera are as follows: 3840x2160P 59.94/50/29.97 fps 1080P 59.94/50/29.97/25 fps 1080i 59.94/50			
2	Output signal	output, or HDMI + streaming	According to the output resolution, selections are available for HDMI output, streaming output, or HDMI + streaming output. For output signals supported by different resolution, please refer to the following table:			
		Resolution	Available output modes			
		3840x2160/59.94p	HDMI or streaming single output			
		3840x2160/50p	HDMI or streaming single output			
		3840x2160/29.97p				
		3840x2160/25p				
		1080p/59.94				
		1080p/50				
		1080p/29.97	Simultaneous HDMI and streaming			
		1080p/25	outputs			
		720p/59.94				
		720p/50				
		720p/29.97				
		720p/25				
3	HDMI YUV		Select YUV422 or YUV420, RGB (This function is only available for these two resolutions, 3840x2160/59.94p and 3840x2160/50p and remains in display mode for all other resolutions)			
4	Apply	After the setting has been modified, select this button to apply the setting				

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4.3.5 Video Settings



No.	Item.	Function Description
1	Camera name	 Modify the camera na Camera names a Please use a car Do not use "/" ar
2	Camera location	Modify the location o Camera location Please use a car Do not use "/" ar
3	Streaming 1 / Streaming 2 / Streaming 3	The CV420-30X supp Parameter Setting for
4	Open streaming	Confirm the streamin

4.3.5.1 Streaming Paramater Setting

Function		Streaming 1	Streaming 1 Streaming 2			
Encode Format		H.265	H.264			
Resolution		4K /1080P / 720P	1080P / 720P	640x360		
Frame rate		Setting according to the su	Setting according to the supported resolution			
Bit Rate(kbps)	Range	2,000~20,000	2,000~20,000	512~5,000		
	Factory default	15,000	7,500	1,000		
Rate control		CBR / VBR				
IP ratio		Setting according to the su	Setting according to the supported resolution			

ions

name

are limited to 1-12 characters

amera name by mixing uppercase and lowercase letters and numbers. and "space" or special symbols

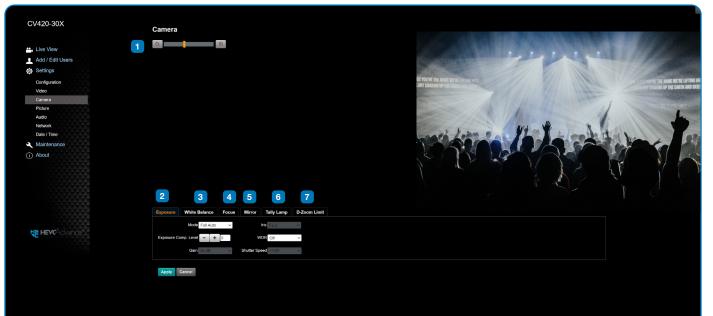
of the camera, such as Meeting Room 1 ns are limited to 1-12 characters amera name by mixing uppercase and lowercase letters and numbers. and "space" or special symbols

ports 3 streaming outputs. Please refer to 5.3.5.1 Streaming or relevant settings

ing function

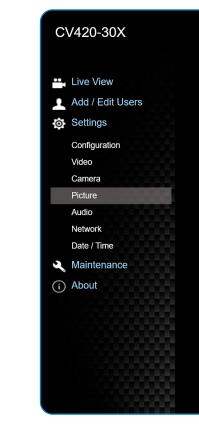
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4.3.6 Camera Settings



No.	Item.	Function Descriptions
1	Zoom ratio	Adjust the zoom-in or zoom-out ratio via scroll bar
2	Exposure	 Mode: Select exposure mode (Automatic/Shutter Priority/Aperture Priority/Manual) Exposure Comp. Level: Select exposure compensation level Gain: The gain limit is adjustable when the exposure mode is set to "Manual" Iris: The size of aperture is adjustable when the exposure mode is set to "Manual" or "Aperture Priority" WDR: Set the level of wide dynamic range (WDR) in order to obtain better images in dynamic lighting environments. Shutter Speed: The shutter speed is adjustable when the exposure mode is set to "Manual" or "Manual" or "Shutter Priority"
3	White balance	 Mode: Select the color temperature mode Auto Indoor Outdoor One Push WB ATW Manual Sodium Lamp Open Push Trigger: One push color temperature is adjustable when the white balance mode is set to "One Push Trigger" Manual Red/Blue: Manually adjust blue/red color temperature
4	Focus	 Mode: Select manual/automatic focus Focus Range: The focusing range is adjustable when the focus mode is set to "Manual" AF Sensitivity: Set automatic focus sensitivity AF Frame: Set automatic focus range Preset AF:
5	Mirror	Mirror: Set automatic flip mode
6	Tally Lamp	Enable / Disable
7	D-Zoom Limit	1X-12X

4.3.7 Picture Settings



No	Item	Function Descriptions
1	Picture effect	Set picture effect, Off / Film / 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
8	Hue	
9	Saturation	Saturation adjustment; Adjustable when the image mode is set to Custom
10	Sharpness	Adjust the sharpness of the image

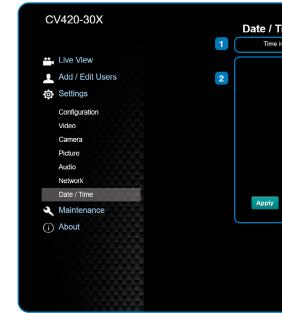
Picture	
1 Picture Effe	off ~
2 2D N	IR 1 ~
3 3D N	R Typ Y
4 Image Mod	Default ~
5 Image Mode Loa	ad Default ~
6 Gamn	na 3 ~
7 Brightne	ss 7 ~
8 He	Je 7 · · ·
9 Saturatio	on 7 · ·
10 Sharpne	ss 7 ×

4.3.8 Camera Settings

	Audio	
	1 Audio Enable	
Live View		
Add / Edit Users	2 Audio In Type Line In	\sim
Settings	3 Audio Volume 6	
Configuration	4 Audio Delay Off	~
Video	5 Audio Delay Time(-)	
Camera		
Picture	6 Encode Type AAC	~
Audio	7 Encode Sample Rate 48 KHz	~
Network		
Date / Time	Apply Cancel	
Naintenance	.46.3	
i) About		

No.	Item.	Function Descriptions
1	Open audio	Enable / Disable
2	Audio In Type	MIC In / Line In
3	Audio Volume	0-10
4	Audio Delay	On / Off
5	Audio Delay Time	1-500
6	Encode Type	AAC:48/44.1/16 G.711 16/8
7	Encode Sample Rate	Encode Sample Rate Selection

4.3.9 Time Settings



No.	Item.	Function Description
1	Camera Time	Display the date and t
2	Set the Time	 Set Manually: Set Synchronize with Synchronize with server <remark> SNTP ser</remark>

Time		
e in Camera	Date 2014/10/10 Time 06:51:09	
Set Time	Set Manually	
	Date 2021/6/9 Time 14 v Hr : 17 v Min : 19 v Sec	
	Synchronize with Computer Time	
	Date 2021/6/9 Time 14:17:22	
	Synchronize with SNTP Server	
	SNTP Server pool.ntp.org	
	Time Zone GMT+08 Taipei, Beijing, Chong ~	
	Automatically Adjust for Daylight Saving Time	
Cancel		
)	

ons

time of the camera

et time manually

th computer time: Set the camera time according to the computer time th SNTP server: Set the camera time synchronously with the SNTP

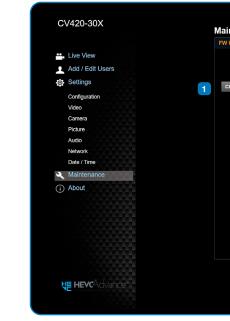
erver address: Please change in network setting

4.3.10 Network Settings

Image: status Image: status Setting: Configuration Value Order Value Configuration Value Outer Nationance Outer Outer <t< th=""><th>I kev View DKP Diff Implement Implement</th><th>Live View Live View View Live View Live View Live View Live View Live View Live View</th><th>3</th><th>RTSP</th></t<>	I kev View DKP Diff Implement	Live View View Live View Live View Live View Live View Live View Live View	3	RTSP
• Live Vew Dicp Of • Add / Edit Users IPvid Address • Settings IPvid Address • Configuration IPvid Address • Video IPvid Address • Deb / Time Imped Address • Add / Edit Users Imped Address • Deb / Time Imped Address • Add / Edit Users Imped Address • Deb / Time Imped Address • Deb / Time Imped Address • Address • Deb / Time • Publish to Barrer • Oomed State: SHT Ditable • Publish to Barrer • Oomed State: SHT Ditable • Publish to Barrer • Oomed State: SHT Ditable • Publish to Barrer • Oomed State: SHT Ditable • Publish to Barrer • Oomed State: SHT Ditable • Publish to Barrer • Oomed State: SHT Ditable • Publish to Barrer • Oomed State: SHT Ditable	• Live Vew DLCP Off Image: Control off	Add / Edit Users IP-4 Address: 10.11110.3 Settings IP-4 Address: 10.11110.3 Ordiguration IP-6 Address: 10.00000000000000000000000000000000000	3	
Add / Edit Users i i ivut Addess 0.11.11.03 Settings i ivut Addess 0.05.05.05.00 Configuration i ivut Addess 0.05.05.00.00 Video i ivut Addess 0.05.05.00.00 Camera i ivut Addess 0.05.05.00.00 Picture Galeway 0.011.11.0 Addos 0.08 0.08.05 Nationance About 0.08 About Paper Politin to Garway About Politin to Garway Picture Politin to Garway About Politin to Garway Politin to Garway Politin to Garway RTMP / RTMP Resolution (main: 1000/00.00.00) Conned Status : RTD Batabas Conned Status : STT Disable	Add / Edit Users IP-44 Adsess 0.111 16.3 Settings IP-44 Adsess 0.2555 250.0 Configuration IP-46 Address IP-46 Address Value IP-46 Address IP-46 Address Camera IP-46 Address IP-46 Address Picture Garwary 10.11.1 Audios IP-46 Address Nation IP-86 Address Value IP-46 Address Value IP-46 Address IP-46 Address IP-46 A	Settings Settings Configuration Video Camera Picture Picture Camera Picture Pic		Enable Multicast
Status IP-4 Marriad 26555550 IP-6 255550 Configuration IP-6 Address IP-6 Address IP-6 Address Camera IP-6 Address IP-6 Address IP-6 Address Pettre Camera Camera Camera Pettre Camera Camera Camera Nador DNS 88.83 IP-6 Address SET Maintenance Address IP-25000000000000000000000000000000000000	Sutting IP-M Memail: 26255500 IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 Votor IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 Camera IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 Pacture Camera IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 Addor Camera IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 Nationa Camera IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 Nationa Camera IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 Maintenance: App' IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 IP-M Agenesis: 26255500 About IP-M IP-M Agenesis: 26000000 Mpc/M Agenesis: 260000000 Mpc/M Agenesis: 26000000 Mpc/M Agenesis: 260000000 Mpc/M Agen	Configuration Video Camera Poture Poture Poture Date: Time Maintenance About T T T T T T T T T T T T T		
Configuration IP-06 Address IP-06 Address<	Configuration IP-of Address IP-of Address<	Video IF Vex Address Canera IF Vex Address Pecture IF Vex Address Aado IF Vex Address Network IF Vex Address Date / Time McR: Address Maintenance Acpt/V About Image: Pediatis to Saver Vide anoder type : H7 48(0) 7500 Ripps Audo anoder type : H7 48(0) 7500 Ripps Restduction format: 160P(69, 64) Churk size : 1412 RTMP / RL Image: RTMP / RL		
Video in 04 betanak	Video IP of Netinas:	Vdeo Camera Poture Audo Deter Network Maintenance About 2 TMB/ /RTMP8 Publish to Sarver Publish to Publish to Pub		
Cancer Ca	Curred Cu	Canea		POR 0
Addo ONS 3.8.3 Network MAC Addoes 0.22.8.37.01.401 Date / Time Appr/ About Appr/ 2 TEMP / TEMPS - Public ho Server Vadoe encoder type : H.24.84/37000ktyps Audoe encoder type : H.24.84/37000ktyps Audoe encoder type : H.24.84/37000ktyps Audoe encoder type : H.24.84/37000ktyps Rither Parts Rither Parts Rither Parts Mach encoder type : H.24.84/37000ktyps Audoe encoder type : H.24.84/37000ktyps Rither Parts	Audo National National National National National MAC Addees MAC Addees MAC Addees MAC Addees Maintenance About Came Pass Pass Pass Vision encoder type: 17248/75000typs Audoe encoder type: 17248/75000typs Audoe encoder type: 17248/75000typs Audoe encoder type: 17248/75000typs Audoe encoder type: 17248/75000typs Nation mail: 1600/192401 Chark size: 1412 RTMP Ferror Status: RTMP dasale RTMP Ferror Status: RTMP dasale RTMP Ferror Status: RTMP dasale	Audo Network Date/Time Maintenance About TIME/AtTME Publish to Sarver Publish to Sarver Publish to Sarver Mode ancoder type : H240(g75000tpps Audo encoder type : H240(g7500tpps Audo encoder type : H240(g7500tpps) Audo		SRT
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RTMP URL	RTMP URL	RTMP URL		
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Apply Cancel	Apply Cancel	Apply Cancel		

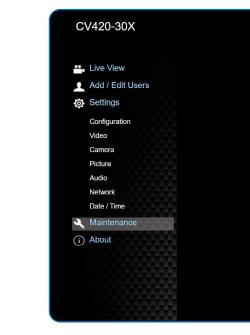
No.	Item.	Function Descriptions
1	Network	Network setting of camera. Change of setting is available only when DHCP function is closed.
2	RTMP/RTMPS Setting	Copy the RTMP web address provided by the RTMP service platform and paste it to the RTMP connection address to publish the camera images on the RTMP service platform.
3	RTSP Setting	To upload to YouTube for live streaming, the audio function must be turned on first.
4	MPEG-TS Setting	Set MPEG-TS format Remark> The following port has been used by the camera. Setting of the port may not connect correctly. 8554, 8556, 8557, 8080, 80, 81, 9090, 23
5	SRT Setting	 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 The following port has been used by the camera. Setting of the port may not connect correctly. 8554, 8555, 8556, 8557, 8080, 9090, 19353.
		3. Delay time is for 20 to 8000 microseconds. The default value is 120 microseconds.
6	SNTP Setting	Set SNTP Server IP

4.3.11 Maintenance and Updating Firmware



No.	Item.	Function Description
1	Firmware Update	The camera firmware download the FW up

4.3.12 Incident/Error Logs

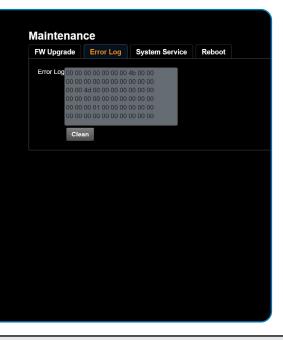


No.	Item.	Function Descriptio
1	Event Logs	If the camera encoun

ntenan	се		
Upgrade	Error Log	System Service	Reboot
hoose File			Upgrade

ions

re may be upgraded via web page. For the upgrade method, please upgrade manual from Marshall website.



ons

nters errors, an error code log will be established.

4.3.13 Additional Maintenance Settings

:V420-30X	Maintenanc	e 2	3	4
1	FW Upgrade	Error Log	System Service	Reboot
Live View	Factory Reset			
Add / Edit Users			_	
Settings	Factory Reset	Res	et	
Configuration				
Video	Setting Profile			
Camera	Load	Sav	е	
Picture				
Audio	Protocol	aud Rate	VISCA Address	Pelco D Address
Network				
Date / Time	Protocol VISC	A Y		
Maintenance				
) About	Apply			

No.	Item.	Function Descript	Function Descriptions		
1	FW Upgrade		The camera firmware can be upgraded via webpage. For the upgrade method, please download the FW upgrade manual from Marshall website.		
2	Error Log	If the camera enco	If the camera encounters errors, an error code log will be established		
3	System Service	Factory Reset	Select the reset button to resume the factory default setting as th webpage setting		
		Setting Profile	The web page setting parameters can be exported from the computer and imported/applied to another camera		
		Protocol	VISA/Pelco		
		Baud Rate	Set the camera Baud Rate for the use of connecting RS-232 communication		
		VISA Address	VISCA Address 1-7		
		Pelco D Address	Pelco D Address 1-255		
4	Reboot	Camera Reboot			

4.3.14 About



No.	Item.	Function Descriptions	
1	Camera ID	Display the camera name	
2	Firmware Version	Display the firmware version of the camera	
3	Detail information	Display the camera firmware details	
4	Serial Number	Display the camera serial No.	

6. Troubleshooting

This chapter describes problems you may encounter while using CV420-30X. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem remains, please contact your distributor or the service center.

No.	Problem	Solution			
1	Boot without power signal	 Make sure you have a sure you hav			
2	There is no image output from CV420-30X	 Check the power Confirm the outp If the camera is c output Replace the cabl 			
3	CV420-30X image is severely delayed	Please use 4K, 1080p			
4	RS-232 cannot be controlled	 Confirm the conr Please make survivol 			
5	Whether the Internet can be used for operation	Please refer to Chapt marshall tech suppor			

Marshall

nave plugged in the power cord. PoE connection, ensure that the power supply supports IEEE 802.3af

er supply or PoE supply functions. put signals are in streaming output. connected to a monitor, confirm the monitor equipment supports 4K

bles and make sure they are not faulty.

Op or 720p 60/50 Hz signals rather than 25/30 Hz signals.

nnection is correct (RS-232 Input / Output). ire the Baud rate setting is the same as the control equipment.

oter 5 Network Function Description for the Internet usage or call rt.

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.

Due to constant effort to improve products and product features, specifications may change without notice.



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