Broadcast A/V Division

CV420-30X-IP

30X IP Zoom Camera



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
5. Specifications	24
6. Troubleshooting	26
Warranty	27

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.

Marshall

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 _

CV420-30X-IP



2. Function Introduction _

2.1 I/O functions Introductions



_	
1000	
100000	
1000000	
BERING .	
100 R 100 L	
100.000	
BB 255	
100-000	
100.000	
17 M 1	
100.108	
E 23	
10 BI	
10 M	
(二) (1)	
III 183	
18 (S)	
18 18 I	
III. 33	
1000	

No.	Item.	Function Description
1	Lens	30x HD/UHD camera
2	Tally indicator light	Tally light displays st
3	Network port	Network port. Suppo
4	HDMI output	The factory output re device supports 4K
5	RS232 output	RS232 output port. A
6	RS232 input	RS232 input port. At
7	DC 12 V power connector	AC power supply co
8	Power indicator light	After power is on, th
9	Audio input	3.5mm Audio Input s
10	Audio output	Loop-through 3.5mm
11	Tripod screw holes	The camera is moun

Power Cord



*Appearance may vary depending on country/region

Power Adapter





ons

a lens

tatus of the camera

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

esolution is 4K/30. Please make sure that the connected display resolution

At most 7 cameras can be connected in a serial connection

t most 7 cameras can be connected in a serial connection

onnecting port

he indicator light will display in red

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

m Output

nted on a (specification) 1/4", 20 UNC tripod deck

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

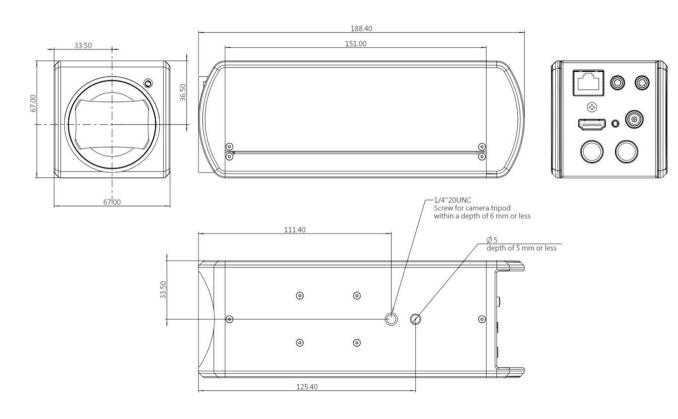
p = 4: On (half-brightness)

p = 5: On (full-brightness)

3. Installation Instructions _

3.1 Installation Basics

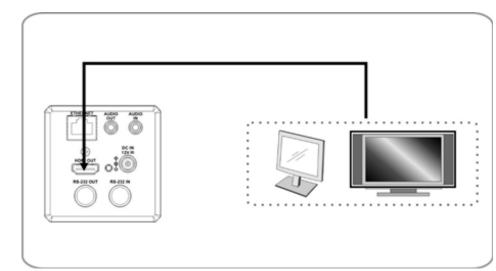
3.1.1 CV420-30X-IP Dimensions Length x Width x Height : 168.3 x 67.0 x 67.0 mm Weight : 0.5 Kg



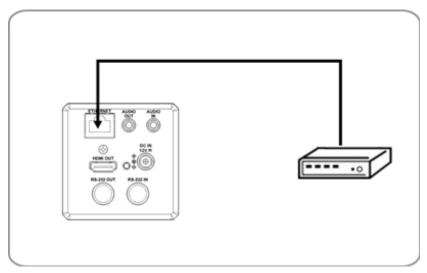
3.2 Connecting devices

3.2.1

HDMI connection to TV/display screen

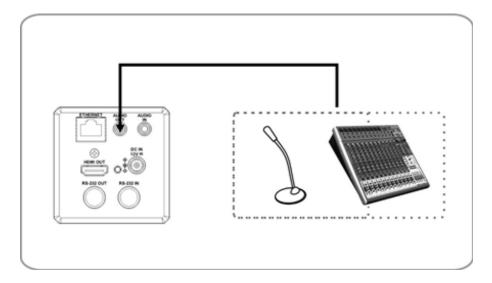


3.2.2 Connecting to Internet



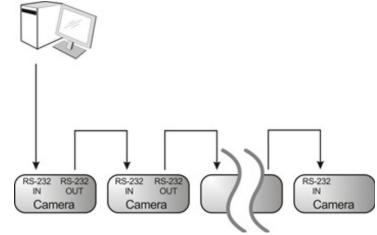
For details of web page connection setting and description, please refer to Chapter 5 Network Function Settings Description.

Connecting AUDIO IN 3.2.3



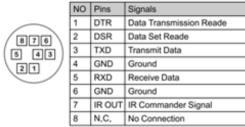
3.2.4 Connecting RS-232

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).



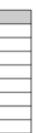
• RS-232 pin definition description

RS-232 IN Pins Instructions



▼ RS-232 Connection Instructions

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



RS-232 OUT Pins Instructions

	NO	Pins	Signals
\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-IP 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

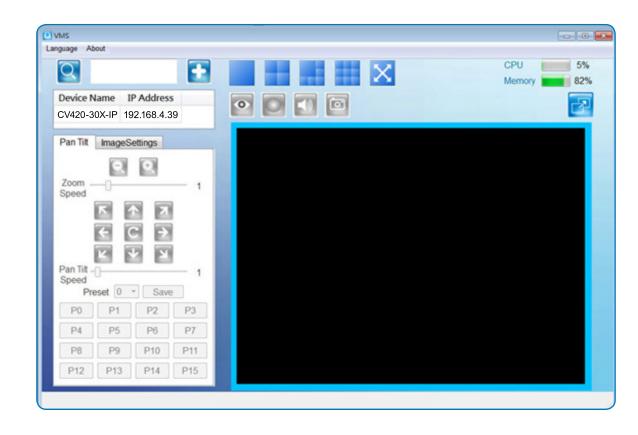
- Connection Diagram
- Change network settings

eneral	
ou can get IP settings assigned aut his capability. Otherwise, you need to he appropriate IP settings.	
O Dbtain an IP address automatic	ally
○ <u>O</u> btain an IP address automatic ⊙ Use the following IP address:	ally
	ally
Use the following IP address:	

4.2.2 Using Marshall VMS Software to View the Images

- the camera IP can be retrieved via the following methods
- marshall-usa.com)
 - Open Marshall VMS software
 - CV420-30X-IP camera
 - Click CV420-30X-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



• The CV420-30X-IP DHCP initial setting is ON. If it is connected to the local area network (LAN),

• Install Marshall VMS software (Please download from the Marshall official website, www.

• 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-IP 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 •
- ٠

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

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 Descriptio
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 administ

Marshall

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

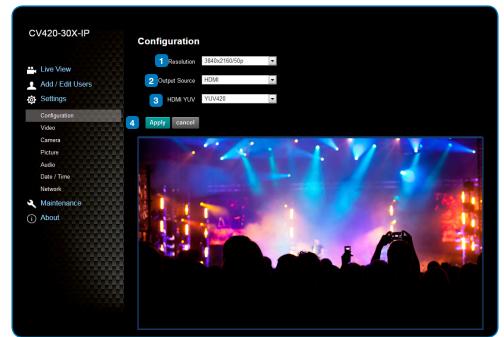
4.3.3 Account Management



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

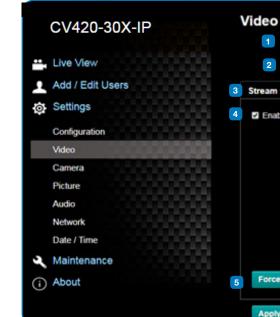
iser Name			
Password			
Password			
Authority 💿 Admin 💿 Operator 💿 Vie	wer		
OK Cancel			
User Name	Authority		
admin	Administrator	Edit	

4.3.4 System Configurations



No.	Item.	Function Descriptions		
1	Resolution	3840x2160P 59.94/50/29.97 fp 1080P 59.94/50/29.97/25 fps 720P 59.94/50/29.97/25 fps		
2 Output signal According to the output resolution, selections are available for HDMI output, or HDMI + streaming output. For output signals supported by please refer to the following table:		output. For output signals supported by different resolution,		
		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		is function is only available for these two resolutions, 2160/50p and remains in display mode for all other	
4	Apply	After the setting has been mo	dified, select this button to apply the setting	

4.3.5 Video Settings



No.	Item.	Function Descriptio
1	Camera name	 Modify the camera na Camera names a Please use a cam Do not use "/" an
2	Camera location	 Modify the location of Camera locations Please use a cam Do not use "/" an
3	Streaming 1 / Streaming 2 / Streaming 3	The CV420-30X-IP su Parameter Setting for
4	Open streaming	Confirm the streaming
5	Force I Frame	Check this item to ins setting will be reserve

4.3.5.1 Streaming Paramater Setting

Function		Streaming 1	Streaming 2	Streaming 3	
Encode Format		H.265	H.264		
Resolution		4K /1080P / 720P	1080P / 720P	640x360	
Frame rate		Setting according to the	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	CBR / VBR		
IP ratio		Setting according to the	Setting according to the supported resolution		

Camera ID	CV420-30	(-IP	
Location	45454		
1 Stream :	2 Stream 3		
le Stream2			
Codec	H.264 *		
Resolution	1080P •		
Frame Rate	59.94 •	fps	
Bit Rate	7500	kbps	
Rate Control	CBR •		
IP Ratio	30 •		
I Frame			
Cancel			

ons

ame

- are limited to 1-12 characters
- mera name by mixing uppercase and lowercase letters and numbers. nd "space" or special symbols

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

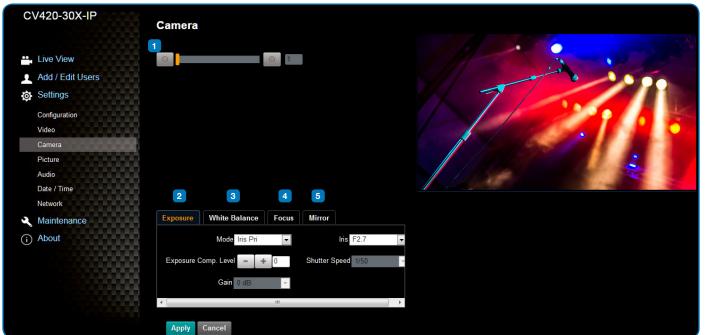
upports 3 streaming outputs. Please refer to 5.3.5.1 Streaming or relevant settings

ng function

sert IDR frame into specified series flow and apply its setting. User's ved and displayed in GUI interface

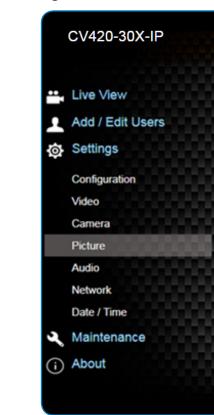
www.marshall-usa.com

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
5	MIRROR	Mirror: Set automatic flip mode

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	Contrast	Contrast adjustment; Adjustable when the image mode is set to Custom
9	Saturation	Saturation adjustment; Adjustable when the image mode is set to Custom
10	Sharpness	Adjust the sharpness of the image

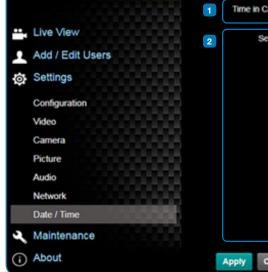
Picture		
1 Picture Effect	• 110	
2 2D NR	1 •	
3 3D NR	Тур 🔻	
4 Image Mode	Default •	
5 Image Mode Load	Default •	
6 Gamma	3 •	
7 Brightness	7 •	
8 Hue	7 •	
9 Saturation	7 •	
10 Sharpness	7 •	

4.3.8 Camera Settings

			1	Audio Enable	
	Live View Add / Edit Users	2	Audio In Type	Line In	۲
ø		3	Audio Volume		6
	Configuration	4 Encod	de Sample Rate	48 KHz(AAC)	٣
	Video	_		_	
	Camera	A	pply Cancel		
	Picture				
	Audio				
	Network				
	Date / Time				
ð	Maintenance				
(j)	About				

No.	Item.	Function Descriptions	
1	Open audio	Turn on / off sound	
2	Soundtrack effect setting	Set MIC In / Line In	
3	Audio Volume	Adjust Volume	
4	Encode sample rate	Set Encode sample rate • 48 KHz(AAC) • 44.1 KHz(AAC) • 16 KHz(G.711) • 8 KHz(G.711)	

4.3.9 Time Settings CV420-30X-IP



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

Da	te / Time	
1	Time in Camera	Date 2019/08/01 Time 09:16:31
2	Set Time	Set Manually
		Date 2019/8/1 Time 17 + Hr : 16 + Min : 22 + Sec
		Synchronize with Computer Time
		Date 2019/8/1 Time 17:16:29
		Synchronize with SNTP Server
		SNTP Server pool ntp. org
		Time Zone GMT+08 Taipel, Beljing, Chong *
		Automatically Adjust for Daylight Saving Time
	Apply Cancel	

ons

time of the camera

Set time manually

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

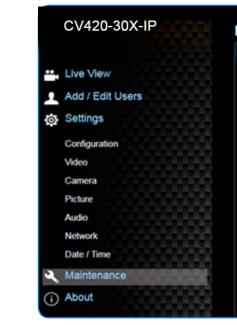
erver address: Please change in network setting

4.3.10 Network Settings

Live View	DHCP	On ·	3 RTSP
Add / Edit Users	Pv4 Address	192.168.4.55	3 RTSP
Settings	IPv4 Netmask	255 255 255 0	
Configuration Video	Pv6 Address	202 202 202 202	4 MPEG-TS
Camera	IPv6 Netmask	101.001.001.001	Enable MPEG-TS MPEG-TS IP Port D
Picture	Galeway	192.168.4.254	MPCGTS IP
Audio Network	ONS	192.168.1.211	5 MTP
Date / Time	MAC Address	0c e2 ac 00 52.48	
Maintenance		Apply	SNTP Server pool ntp.org
D About			6 Port Setting
	2 RTMP		HTTP Port 80 HTTPS Port 81
	Publish to Server Video encoder type : H.2	STATE TO DO TO	
	Audio encoder type : No		
	Resolution format : 1000		
	Churk size : 1412		
	Rither Server Statistic R	TMP disable	
	RTMP URL		

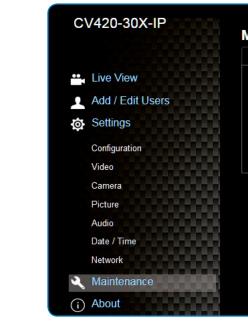
No.	Item.	Function Descriptions	
1	Network	Network setting of camera. Change of setting is available only when DHCP function is closed.	
2	RTMP Setting	Copy the RTMP web address provided by the RTMP service platform and paste it to the RTMP connection address to publish the camera images on the RTMP 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></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	SNTP Setting	Set SNTP Server IP	
6	Port Setting	Set HTTP port. The default Port value is 80 Remark> Change of setting is available only when DHCP function of camera is closed	

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 Description
1	Event Logs	If the camera encour

W Upgrade	Error Log	System Service
Choose File	No file chosen	Upgrade

ions

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

FW Upgrade		Erro	r Log		System	Service	
Error Log 00 00 00	00 00 00 00 00 00 00 00 00 00 00 00 00	00 00 00 00 00 00	00 0 00 0 00 0	0 00 0 00 0 00	00 00 00 00 00 00 00 00 00		
00		00 00 ean	00 0	0 00	00 00 00		
one							

ions

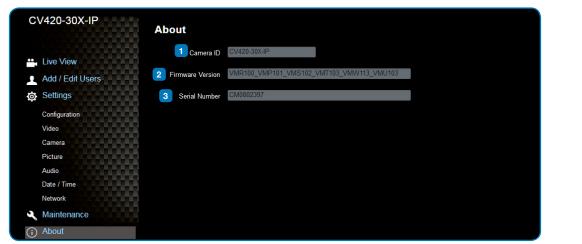
inters errors, an error code log will be established

4.3.13 Additional Maintenance Settings

	CV420-30X-IP	Maintenance
ii -	Live View Add / Edit Users	FW Upgrade Error Log System Service
ø	Settings Configuration Video	Setting Profile
	Camera Picture Audio	Load Save
3	Network Date / Time Maintenance	Baud Rate 9600 • Apply
0	About	

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	Setting File	The web page setting parameters can be exported from the computer and imported/ applied to another camera
3	Baud Rate	Set the camera Baud Rate for the use of connecting RS-232 communication

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	Serial Number	Display the camera serial No.

5. Specifications _____ Sensor Video Format Optical Zoom Focal Length Angle-of-View (Horizontal) Aperture Shutter Speed Minimum Object Distance Video S/N Ratio Color Night Day and Night Day and Night Control Preset Points Patrol Group Iris Control Lens Control **Exposure** Control Gain Control White Balance Backlight Compensation Defog EV Compensation Gamma Correction

Marshall

1/2.5" 8MP CMOS
"Resolution: 3840x2160p (UHD), 1920x1080p
(HD), 1280x720p
Frame-rate : 59.94/50/29.97/25 fps"
 30x
4.6mm ~ 135mm
68° ~ 3.5°
F1.5 ~ F3.4
1/1 ~ 1/10,000 sec
1.5m (Wide/Tele)
> 50dB
Color: 0.1 Lux, F1.6, 50 IRE, AGC on
BW: 0.02 Lux, F1.6, 50 IRE, AGC on
Mechanical IR Cut Filter
Modes: Auto, Color, Black/White
128
4
Auto or Manual (remote control)
Autofocus: Auto, One-Push fast AF, Interval
AF, Zoom Trigger AF, Zoom Tracking, ICR
 Compensation AF
"Auto mode: True WDR
Manual mode: shutter speed 1/1~1/10000
Shutter-Priority mode: shutter speed 1/1~1/10000
Flickerness mode: shutter speed, NTSC=1/60,
PAL=1/50"
"AGC
Manual gain"
"Auto (2500K~7500K)
ATW (2000K~10000K)
Manual WB (R/B gain, One-push WB)
Indoor (3200K)
Outdoor (5800K)"
On/Off
Yes
Auto/Flickerless/Shutter-Priority Mode: -7~+7
Yes

Sharpness	Configurable
Noise Reduction	2D/3D NR
Dynamic Range	Ture WDR, 120dB
Privacy Mask	Spherical Privacy Zone Mask
Video Orientation	OFF, Flip, Mirror, Both
EIS	Yes
Video Profile	Multiple video profiles
Video Standard	H.265, H.264, MJPEG, Haivision SRT
Multiple Video Stream	"Triple streaming structure H.265 8M 60fps + H.264 2M 60fps + H.264 D1 30fps + HDMI"
Audio Compression Format	G.711
Data Rate	"CBR (64~20000, default 8000) CVBR (64~20000, default max 8000) VBR (1~10) MJPEG (high, mid, low)"
System Compatibility	ONVIF profile S
Protocols	ARP, DHCP, DNS, FTP, HTTP, HTTPS, ICMP, IGMP, IPv4/6, NTP, RTSP/RTCP/RTP, QoS, SMTP, SNMP, TCP, TLS/TTLS, UDP, UPnP, 802.1X, SRT, MPEG-TS
Internet Security	"IEEE 802.1X HTTPS"
Control Interface	RS-232 and IP
HDMI Output	HDMI 2.0
Audio Out	Line Out, 3.5mm (Stereo/Mono)
Audio in	Line In, 3.5mm (Stereo/Mono)
RS-232 In	8 Pin Mini-Din
RS-232 Out	8 Pin Mini-Din
DC In	12V +/- 20%
PoE	802.3 af
Power consumption	< 12W
Ctowage Tampa anatures	-20°C ~ 60°C (-4°F ~ 140°F)
Storage Temperatures	
Operating Temperatures	0°C ~ 40°C (32°F ~ 104°F)
	0°C ~ 40°C (32°F ~ 104°F) 1 kg

6. Troubleshooting

This chapter describes problems you may encounter while using CV420-30X-IP. 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 ha When using a Po hubs
2	There is no image output from CV420- 30X-IP	 Check the power Confirm the outp If the camera is c output Replace the cabl
3	CV420-30X-IP image is severely delayed	Please use 4K, 1080p
4	RS-232 cannot be controlled	 Confirm the conr Please make sure
5	Whether the Internet can be used for operation	Please refer to Chapte marshall tech suppor

nave plugged in the power cord. oE 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

oles and make sure they are not faulty.

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

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

ter 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 two 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.



20608 Madrona Avenue, Torrance, CA 90503 Tel: (800) 800-6608 / (310) 333-0606 • Fax: 310-333-0688

www.marshall-usa.com

support@marshall-usa.com