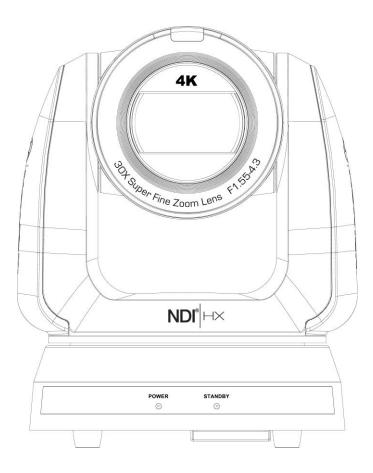
VC-A71SN Ultra HD camera (4K PTZ Video Camera)

User Manual - English



Version VCBC106

To download the latest versions of the Quick Start Guide, multilingual user manual, software, driver, etc., please visit Lumens https://www.MyLumens.com/support



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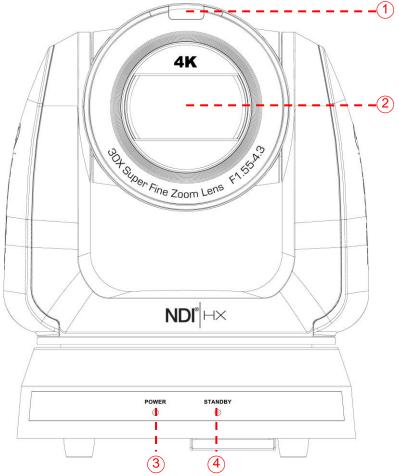
Chapter 1 Package Contents

Camera	Quick Installation Guide	Remote Control
Power Cord	Power Adapter	RS-422 Connector
Appearance may vary depending on country / region		
Metal Plate A	Metal Plate B	M3 Screws
		Silver x 8 / Black x 2



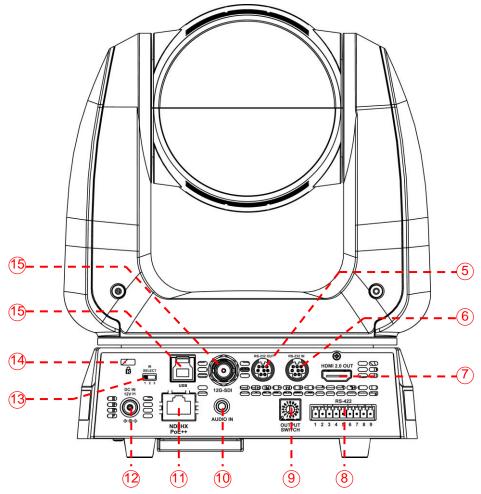
2.1 I/ O functions Introduction

2.1.1 Front View



NO.	Item	Function Descriptions		
1.	Tally Light	Display the Tally Lamp status of the camera		
2.	Camera lens	30x HD camera lens		
3.	Power LED	Display the status of the camera, please refer to 2.3 Description of		
	indicator	LED indicator		
4.	Standby LED	Display the status of the camera, please refer to 2.3 Description of		
	indicator	LED indicator		

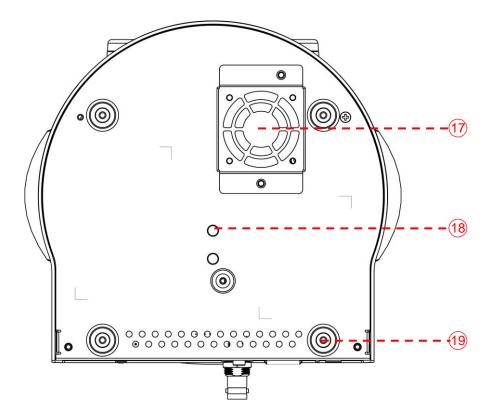




NO.	Item	Function Descriptions		
5.	RS-232 output	RS-232 output port, at most 7 cameras can be connected in a serial connection		
6.	RS-232 input	RS-232 input port, at most 7 cameras can be connected in a serial connection		
7.	HDMI 2.0 output	HDMI 2.0 output (Audio output supported)		
8.	RS-422 port	RS-422 port, at most 7 cameras can be connected in a serial connection		
9.	OUTPUT SWITCH	Adjust the resolution setting. The default is 3840 x 2160/ 59.94p		
10.	Audio input	Support Line In / Mic In		
11.	Network port	Network cable connection port supports routers or hubs of PoE+- (IEEE 802.3bt) with power supply		
12.	DC 12V power connector	AC power supply port		
13.	IR SELECT	The remote control ID setting is only controlled after corresponding to the Camera Select on the remote control		
14.	Kensington lock hole	Safety lock slot		
15.	USB 3.0 port	Connects to the USB port of the computer and provides USB signal images <pre><remark> Support up to 3840 x 2160/ 29.97p</remark></pre>		
16.	12G-SDI output	12G-SDI output (Audio output supported)		

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2.1.3 Bottom



NO.	Item	Function Descriptions		
17.	Mute cooling fan	The cooling fan automatically controls its rotation speed and performs cooling in cope with the operation temperature of the machine		
18.	Tripod lock hole	The camera is mounted on a (specification) 1/ 4"20 UNC tripod		
19.	Rotatable foot pad	When using the metal plates of accessories, remove 4 pieces of rotatable food pads on the bottom by rotating counterclockwise, and then install the mental plates		

2.2 Tally Lamp Function Description

The Tally light function may be enabled through the RS232 command. Please refer to VC-A71SN RS-232 command set document

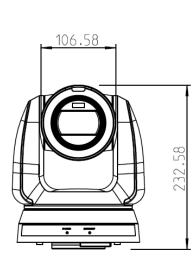
2.3 Description of LED indicator

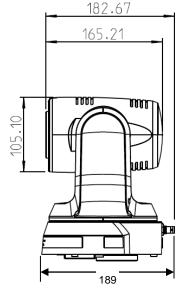
Status	Power	Standby		
Startup in progress (initialization)	Green light	Orange light		
In use	Green light	No indicator		
In standby mode	No indicator	Orange light		

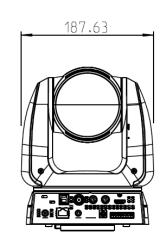


3.1 Camera Size

- 3.1.1 Camera Front View and Side View
 - Length x Width x Height: 233 x 188 x 189 mm
 - Weight: 3.0 Kg (without mental plates)

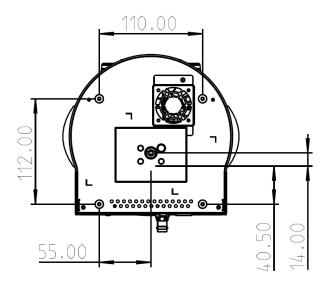






3.1.1.1 Bottom of Camera

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



3.2 Preparation before installation

Installation and connection of HD camera requires special skills. To install by yourself, please follow necessary steps, ensure steady and tight installation of the device, and pay attention to your safety to avoid any accident.

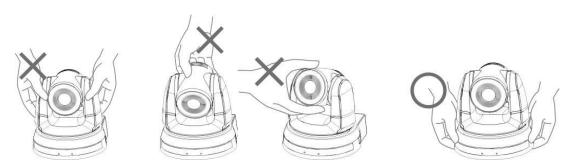


- **3.2.1** Ensure the safety of the installation environment. Please do not install the device on unstable ceiling or in a place where the device is in danger of falling to avoid any accident.
- **3.2.2** Please check whether accessories in the box are complete or not. Please contact the supplier for any shortage, and make sure to keep the accessories in the box intact.
- **3.2.3** Please choose a proper place for installation of camera in advance. Please determine an installation place according to the following requirements
 - 3.2.3.1 Confirm the position for the object to be captured.
 - 3.2.3.2 Confirm whether the camera is set at a proper distance from other light sources.

3.3 Instruction for installation

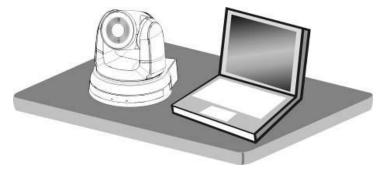
3.3.1 Install the camera on the desk

- 3.3.1.1 Precautions for installation
 - Please install the machine on a flat desk
 - Do not grab the camera head by hand when handling the device
 - Do not rotate the camera head by hand. Improper rotation may result in breakdown of the camera



3.3.1.2 Installation steps

Please place the camera on a flat desktop to ensure the normal vertical and horizontal operation of the machine and the good cooling of the fan at the bottom



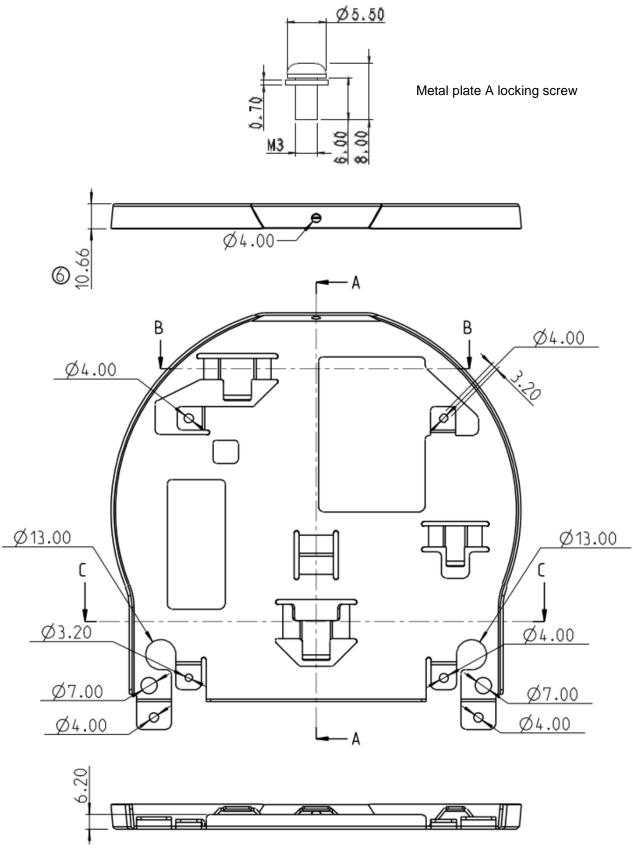
3.3.2 I would like to install the camera on the ceiling

- 3.3.2.1 Prepare for the parts and equipment required during the installation
 - Accessories in the box (metal plates A, B, M3 screw silver x 8, black x 2)
 - Screw for locking on ceiling mounted hanger x 4
 - Drilling machine, screw driver, ladder



3.3.2.2 Metal Plate size diagram

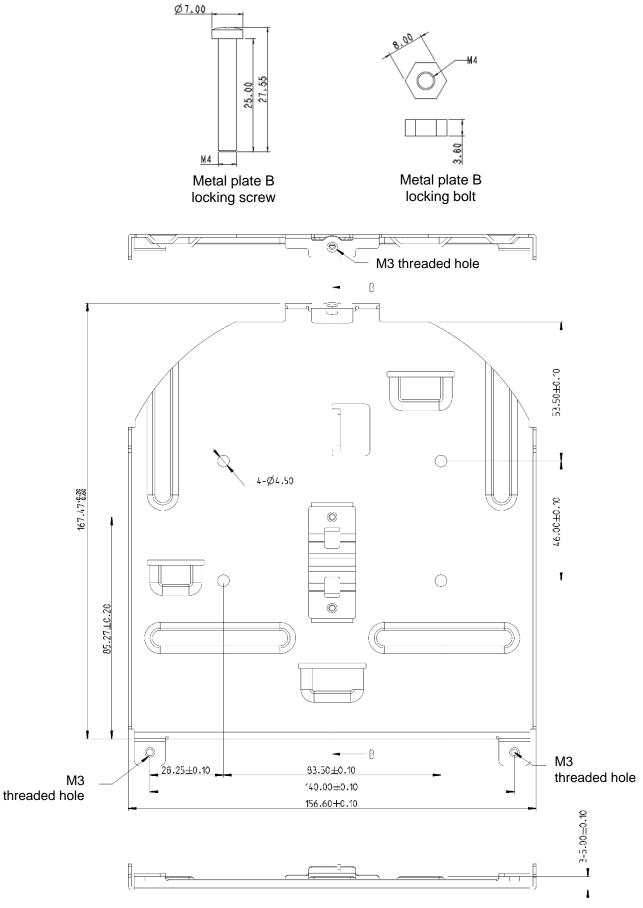
Metal plate A - machine side

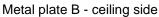


Metal plate A - machine side



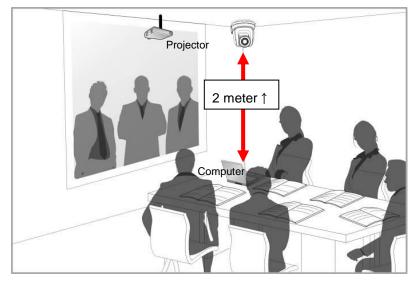
Metal plate B - ceiling side



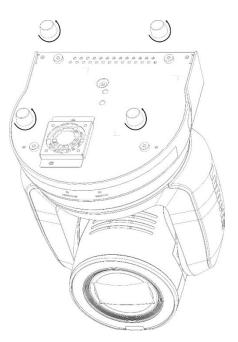




- 3.3.2.3 Precautions for installation
 - 1. Before installation, please confirm the orientation of the machine relative to the object to be captured
 - 2. It is recommended that the machine should be set at a distance of more than 2 meter away from the object to be captured. Please adjust for a best distance according to the magnification of the lens

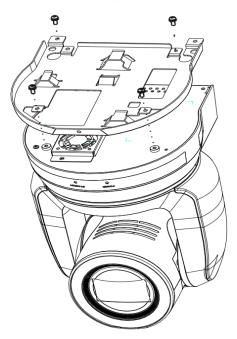


- 3. The machine (including metal plates) is weighed at about 4 kg. If it is to be installed on the ceiling, please use the hanger that has obtained UL security approval to prevent the machine from falling down.
- 4. Please check whether the camera is installed securely on a regular basis.
- 5. Please clean the cooling fan located at the bottom to ensure the good heat dissipation effect of the machine on a regular basis.
- 3.3.2.4 Installation steps
 - Remove the 4 foot pads on the machine base. The foot pads are designed to be detachable and can be removed by rotating them counterclockwise by hand.
 <Remark> The removed foot pads must be kept properly for future use.





2. Fix the metal plate A on the machine base with 4 M3 silver screws



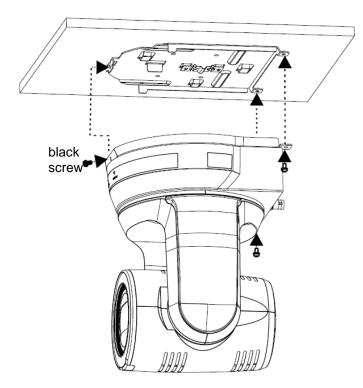
3. Lock the metal plate B on ceiling mounted hanger

<Note>

- (1) Please use the hanger that has obtained UL security approval
- (2) Please reserve the hole for the connecting wires of the camera

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 plate B
- (2) And then secure with 2 M3 silver screws and 1 M3 black screw



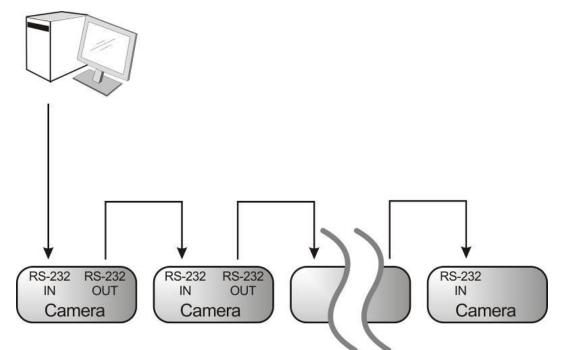


- 3.3.2.5 How to remove
 - 1. Remove the connecting wires from the camera
 - 2. Uninstall the camera together with the ceiling, loosen the three screws that fix the metal plates A and B and push to the left to remove the machine
 - 3. Then remove the screws on the hanger and the machine

3.4 Connecting devices

3.4.1 RS-232 Connection

With RS-232 in/ out, at most 7 Lumens cameras can be connected.

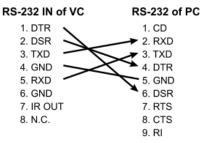


RS-232 pins definition instructions

RS-232 IN Pins Instructions

	NO	Pins	Signals
\frown	1	DTR	Data Transmission Reade
876	2	DSR	Data Set Reade
	3	TXD	Transmit Data
21	4	GND	Ground
	5	RXD	Receive Data
	6	GND	Ground
	7	IR OUT	IR Commander Signal
	8	N.C.	No Connection

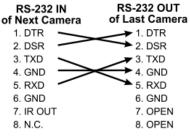
RS-232 Connection Instructions



▼ RS-232 OUT Pins Instructions

	NO	Pins	Signals
\frown	1	DTR	Data Transmission Reade
876	2	DSR	Data Set Reade
(543)	3	TXD	Transmit Data
21	4	GND	Ground
	5	RXD	Receive Data
	6	GND	Ground
	7	OPEN	Reserved
	8	OPEN	Reserved

RS-232 Connection Instructions

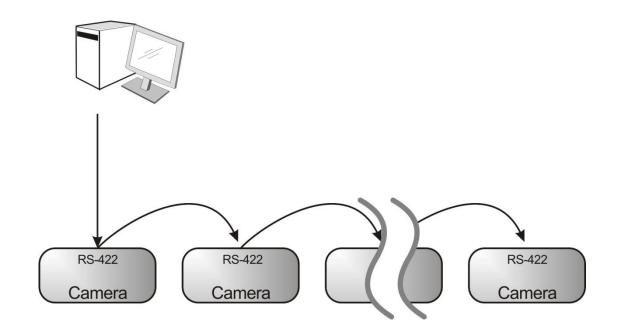




3.4.2 RS-422 Connection

With RS-422, at most 7 Lumens cameras can be connected.

<Note> When RS-422 connection is being used, do not use RS-232 connection.



2

3

4

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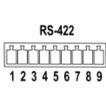
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7

8

RS-422 pins definition instructions





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

RS-422 Connection Instructions

Applicable to

Lumens Compact Camera Controller

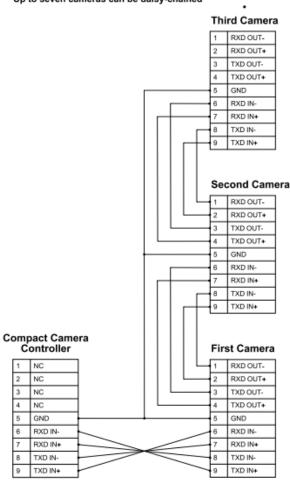
Compact Camera Controller	Camera
GND	
RXD IN- 🥿	🗶 6. RXD IN-
RXD IN+	7. RXD IN+
TXD IN-	8. TXD IN-
TXD IN+	9, TXD IN+

RS-422 Connection Instructions Applicable to

SONY Compact Camera Controller

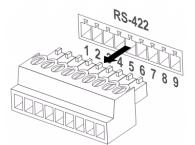
Compact Camera Controller	Camera
GND	→ 5. GND
RXD IN-	🗩 6. RXD IN-
RXD IN+	7. RXD IN+
TXD IN-	💙 8. TXD IN-
TXD IN+	9. TXD IN+



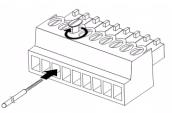




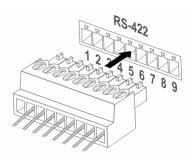
- RS-422 connection instructions
- 1. Hold the two sides of RS-422 connector and pull out in the direction shown by the arrow in the figure below



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



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





4.1 Functions of remote control

	No.	Item	Description
	1.	Power	Power Switch
	2.	Preset	 Numeric Keys 0 - 9: Click to call the preset Preset: Appoint an ID (0 ~ 9) to save the current position data Reset: Appoint an ID (0 ~ 9) to delete the current position data
	3.	Menu	Display OSD menu
	4.	Pan/ Tilt	Move the lens
	5.	Home-Enter	Go back to the main page/ Execute
	6.	Zoom	Fast: Adjust image sizeSlow: Fine-tune image size
Com + Fest	7.	Focus	 Auto: Auto focus Manual: Enable Manual Focus Far/ Near: Adjust the focal length in Manual
	8.	Picture	Switch image effect (OFF/ Neg/ B&W)
Picture Presze Mirror Info	9.	L/R Direction Set	L/R Direction / Normal
13 14 15 Direction Set	10.	Camera select	Choose Camera ID 1 ~ 3
	11.	Back Light	Turn on/off back light compensation
	12.	Pan/Tilt Reset	Clear the Pan/Tilt setting
Lumens	13.	Freeze	Freeze the screen
	14.	Mirror	Rotate the image (OFF/ Mirror/ Flip/ Rotate)
	15.	Info	Status information



4.2 Setting Menu

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

1st Level Major Items	2nd Level Minor Items	3rd Level 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~ C ~5	The value can be adjusted after <i>Exposure Comp.</i> is activated
	Spot Light	On/ <u>Off</u>	
Expedito	Spot Light Position	X(0~6)Y(0~4)	The value can be adjusted after Spot Light is activated
Exposure	Shutter Pri	60/30 Mode 50/25 Mode 1/10000-1/1	Adjustable when the Exposure mode is set to Shutter Pri
	Iris Pri	F1.6~ <u>C</u> ~F18/ Off	Adjustable when the <i>Exposure mode</i> is set to <i>Iris Pri</i>
	Manual Gain	<u>0</u> -45dB	Adjustable when the <i>Exposure mode</i> is set to <i>Manual</i>
	Manual Speed	60/30 Mode 50/25 Mode 1/10000-1/1	Manually set the shutter
	Manual Iris	F1.6~ <u>C</u> ~F18/ Off	Manually set the iris
	Gain Limit	9- <u>45</u> dB	Max. limit value of electron gain
	Iris Limit	<u>F2.2</u> -F11	Max. limit value of iris
	WDR	<u>Off</u> / 1/ 2/	
White Balance	Mode	 Auto In Door Out Door One Push WB ATW Manual B Gain Sodium Lamp 3000K 4300K 5000K 6500K 8000K 	Select the color temperature mode 1. 4000k ~ 7000k 2. 3200k 3. 5800k 4. 1700k ~ 10000k 5. 1700k ~ 10000k 6. Custom 7. 2800k
	One Push Trigger	ENTER	One push trigger
	Manual Red	0~ <u>C</u> ~128	Adjustable when the white balance mode is set to <i>Manual</i>
	Manual Blue	0~ <u>C</u> ~128	Adjustable when the white balance mode is set to <i>Manual</i>
	Picture effect	<u>Off</u> / Neg/ B&W	
Picture	Sharpness	0~ <u>C</u> ~14	
1			



1st Level Major Items	2nd Level Minor Items	3rd Level Adjustment Values	Function Descriptions
	3D NR	Off / LOW / <u>Typ</u> / Max	
	Image Mode	Default / Custom	The user may customize his/ her desired image mode
	Image Mode Load	ENTER	Adjustable when the <i>Image 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>
	Brightness	0~ <u>C</u>~15	Adjustable when the <i>Image mode</i> is set to <i>Custom</i>
	Hue	0~ <u>C</u> ~15	Adjustable when the <i>Image mode</i> is set to <i>Custom</i>
	Saturation	0~ <u>C</u> ~15	Adjustable when the <i>Image mode</i> is set to <i>Custom</i>
	Gamma	0~ <u>C</u> ~3	Adjustable when the <i>Image mode</i> is set to <i>Custom</i>
	Pan/Tilt Limit	On/ <u>Off</u>	Turn on/ off the angle limit setting
	Pan Right Limit	0~ <u>170</u>	Limit the right angle
	Pan Left Limit	<u>-170</u> ~0	Limit the left angle
	Tilt UP Limit	0~ <u>90</u>	Limit the upward angle
	Tilt Down Limit	<u>-30</u> ~0	Limit the downward angle
	Pan Flip	On/ <u>Off</u>	Activate the reverse Pan direction
Pan Tilt Zoom	Tilt Flip	On/ <u>Off</u>	Activate the reverse Tilt direction
	Preset Speed	5/ 25/ 50/ 80/ 120/ <u>160</u> / 200/ 300 deg/sec	Set the PTZ rotation speed when Preset is performed
	PTZ Speed Comp	On/ <u>Off</u>	Set the Pan/Tilt moving speed to vary from the zoom position
	D-Zoom Limit	<u>x1</u> ~x12	Set the D-zoom limit <remark></remark> 3840 x 2160 59.94/ 50 does NOT support this setting
	PTZ Motion Sync	On/ <u>Off</u>	When activated, PTZ synchronization can be achieved by controlling with the <i>Presets</i> < Remark> Refer to the Preset speed setting for this feature. The speed may be adjusted automatically due to the difference of PTZ moving range.
D-Effect	Mirror	<u>On</u> / MIRROR/ Flip / MIRROR + MIRROR	Set the mode at which the image is mirror or flipped
	AF Sensitivity	LOW/ <u>MIDDLE</u> / HIGH	For AF triggering speed, the higher the speed is, the faster AF is triggered
Auto Focus	AF Frame	Center / Full Frame / <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
	Zoom Tracking	Manual/ <u>Curve Tracking</u> / Zoom Tracking	This function can be set in the Manual Focus (MF) mode Set the focus mode during lens zooming in Manual Focus mode



1st Level Major Items	2nd Level Minor Items	3rd Level Adjustment Values	Function Descriptions
	PTZ Assist	On/ <u>Off</u>	This function can only be enabled in the Manual Focus (MF) mode When PTZ Assist is enabled and PTZ control is in operation, the focus performs only once upon immediate execution. The focus will not be triggered afterward when the scene changes
	SMART AF	On/ <u>Off</u>	Turn on this function and AF will mainly focus on the face
	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.
Ethernet	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 Enable	On/ <u>Off</u>	Turn on/off audio output
	Audio Volume	0~ <u>C</u> ~10	Audio Volume Setting
	Audio Delay	On/ <u>Off</u>	When the audio is not synchronized with the video, enable this function to set the audio delay time < Remark> Supported when NDI HX function setting is off
Audio	Audio Delay Time(ms)	<u>-1</u> ~-500ms	Set audio delay time Remark> Supported when NDI HX function setting is off
	Encode Type	<u>AAC</u> / G.711	Set audio encode type <remark></remark> Supported when NDI HX function setting is off
	Encode Sample Rate	1. 48 KHz(AAC) 2. 44.1 KHz(AAC) 3. 16 KHz(AAC) 4. 16 KHz(G.711) 5. 8 KHz(G.711)	Set the encode type and sample rate <remark> Supported when NDI HX function setting is off</remark>
	Prompt	On/ <u>Off</u>	Turn on/off the prompt information on the display
System	IR Receive	<u>On</u> /Off	When it is Off, the remote control will not be able to control the camera. At this moment, turn off and then turn on the power to restore control of the remote control.
	Tally Lamp	On/ <u>Off</u>	Select to enable or disable Tally Lamp function.



1st Level Major Items	2nd Level Minor Items	3rd Level Adjustment Values	Function Descriptions
	Tally CMMD Mode	Normal/ <u>Link</u>	 Set whether the indicator is linked with RS232 command <i>Normal</i> (Not linked): The indicator light status and mode shall be set separately. When the indicator light is on and the default mode is off, additional command is required to set the indicator light mode Setting indicator light mode when the indicator light is off will not trigger the indicator light <i>Link:</i> When the indicator light is on, the default mode is red light Setting indicator light mode when the indicator light off will not trigger the indicator light is on, the default mode is red light Setting indicator light mode when the indicator light is off will turn on the indicator light
	Language	<u>English</u> / 中文	
	Initial Position	Last MEM / 1st Preset	Select the camera lens to return to the last operated position or the first preset position after POWER ON <remark> 1st Preset = Preset 0</remark>
	Control Device	Encoder / <u>Controller</u>	Control Device setting, Controller: for joystick Encoder: for tracking 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	<u>RS-232</u> /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	The Protocol set to VISCA allows the camera ID address to be assigned. Select 0 for automation.
	PELCO D Address	<u>1</u> ~255	The Protocol set to Pelco D allows the camera ID address to be assigned.
	Output Mode	1. 3840x2160/59.94p 2. 3840x2160/50p 3. 3840x2160/29.97p 4. 3840x2160/25p 5. 1080p/59.94 6. 1080p/50 7. 1080p/29.97 8. 1080p/25 9. 720p/59.94 10. 720p/50 11. 1080i/59.94 12. 1080i/50	Choose the output resolution
	Color Space	Standard Profile / REC.709 / BT.2020	Set the standard for color gamut
	Factory Reset	On/ <u>Off</u>	Resume the factory default setting
Status			Display the current setting status



5.1 Connecting Camera to Network

5.1.1 Connecting to Internet

Two common connection methods are shown below

1. Connecting via switch or router

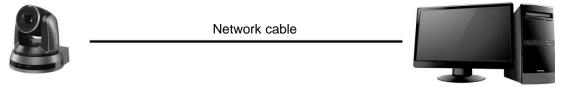


Camera

Computer

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

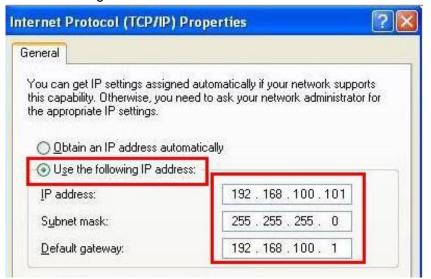
E.g.: The factory-preset default IP address of the camera is 192.168.100.100. The computer IP address must be set with the same network segment, such as 192.168.100.101, so that the computer can be connected correctly with the camera



Computer

Change network settings

Camera



5.1.2 Using the Browser to View the Images

- Open the browser, and enter the IP address of the camera in the address bar E.g.: <u>http://192.168.100.100</u> (Default IP address)
- Enter administrator's account and password For a first-time login, please refer to <u>5.2.3 Account Management</u> to change the default password





Lumens Network Camera

- Account: admin
- Password: 9999 (Default)

5.1.3 Using RTSP Player to View the Images

<Remark> Supported when NDI|HX function is off (Please refer to <u>5.2.5 Setting - Video - NDI|HX</u>) In addition to the browser and VMS, other free softwares also can be used for RTSP connection, such as VLC, Quick Time and PotPlayer

RTSP connection address formats are as follows:

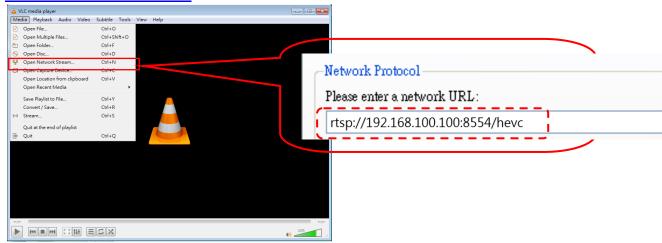
- RTSP Main Streaming (4K@H.265) => rtsp:/ / <u>camera IP</u>: 8554/ <u>hevc</u>
- RTSP Sub1 Streaming (1080P@H.264) => rtsp:/ / <u>camera IP</u>: 8557/<u>h264</u>
- RTSP Sub2 Streaming (720P@H.264) => rtsp:/ / <u>camera IP</u>: 8556/ <u>h264</u>

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

- RTSP Main Streaming <u>rtsp://Username:Password@VC IP address:port/hevc</u>
- RTSP Sub1/ Sub2 Streaming <u>rtsp://Username:Password@VC IP address:port/h264</u>
- To enable password authentication function, please refer to **5.2.9 Setting Network**

Example:

Open the VLC software, click [Open Network Streaming], and enter the URL: <u>rtsp://</u> <u>192.168.100.100:8554/ hevc</u>



5.1.4 Using NDI Studio Monitor to View the Images

<Remark> Supported when NDI|HX function is on (Please refer to <u>5.2.5 Setting - Video - NDI|HX</u>) For the NDI|HX operation, please download the latest NDI software from the NewTek website <u>https://www.newtek.com/</u>



5.2 Web Page Function Description

5.2.1 Login Screen

		1 User Name 2 Password 3 English 4 Remember Password 3 Login
No	Item	Function Descriptions
1	Username	Please enter user account (Default: admin)
2	Password	Please enter user password (Default: 9999) Remark> For a first-time login, please refer to <u>5.2.3 Account Management</u> to change the default password
3	Language selection	Currently, the system supports English, Traditional Chinese and Simplified Chinese
4	Remember Password	Save user account name and password to the browser. When you log in next time, there is no need to re-enter them
5	Login	Log into the administrator screen on the website

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	<remark> Preview p</remark>	ane is not supported when NDI is on		
		e View		
	Live View	n/Titt Titt 5Preset		
1	Add / Edit Users	F A 3	3	
ø	Settings	Pan ← C → Pan	6	
	Configuration	к † л		
	Video	Tilt 7 8	9	
	Camera	0 Clea	an	
	Picture	Save Loa	id	
	Audio			
	Network	Q		
	Date / Time	5		
z	Maintenance			6
(i) <i>i</i>	About 3			
1	HEVC Advance*			
No	HEVCAdvance Item	Function Descriptions	NDI ON	NDI OFF
		Function Descriptions Adjust the Pan/Tilt position of the camera screen	NDI ON V	NDI OFF V
No	Item	Adjust the Pan/Tilt position of the camera screen Adjust the zoom-in or zoom-out ratio via scroll bar	V	
No 1 2 3	Item Pan/Tilt setting	Adjust the Pan/Tilt position of the camera screen	V	V
No 1 2	Item Pan/Tilt setting Zoom ratio	Adjust the Pan/Tilt position of the camera screen Adjust the zoom-in or zoom-out ratio via scroll bar Display the screen currently captured by the camera Turn on or turn off the camera power	V	V V
No 1 2 3	Item Pan/Tilt setting Zoom ratio Preview window	Adjust the Pan/Tilt position of the camera screen Adjust the zoom-in or zoom-out ratio via scroll bar Display the screen currently captured by the camera	V V	V V V

5.2.2 Viewing In Real Time <Remark> Preview pane is not supported when NDI is on

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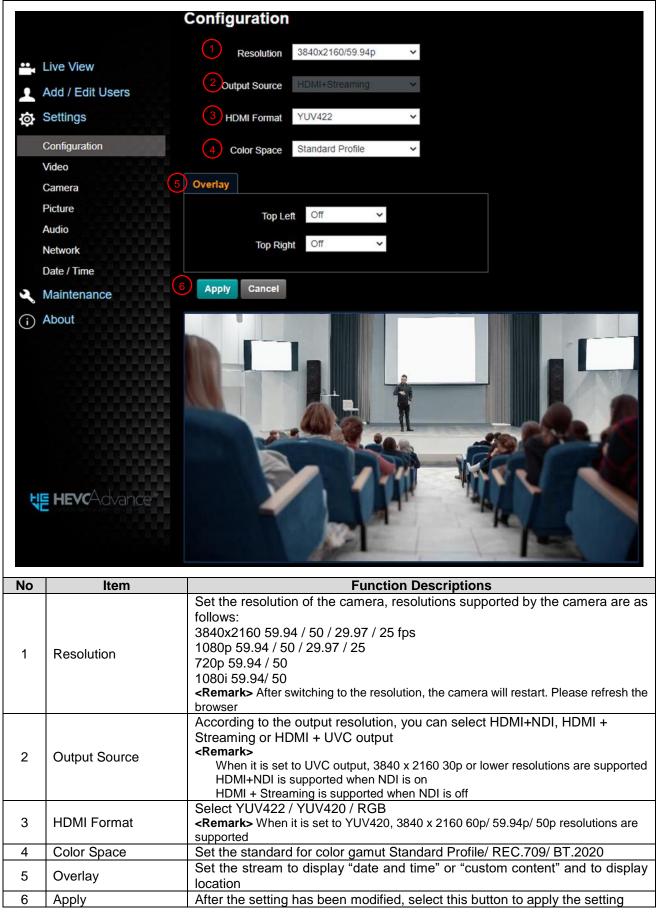
5.2.3 Account Management

	Add	/ Edit Users				
			User Name			
••	Live View	1	Password			
2	Add / Edit Users					
tộ:	Settings	Confirm	n Password			
	Configuration	(2)(Authority Admin	Operator Viewer		
	Video	(3)	ОК Са	ncel		
	Camera			A soft soft s		^
	Picture	(4) Us	er Name	Authority		
	Audio		admin	Administrator	Edit	
	Network					
	Date / Time					
	Maintenance					
	Maintenance					
(i) About		Funct	ion Descriptions		L
	About Item	Enter a user nan		ion Descriptions		
(i No) About		ne and passwo	rd to add a new u		
(i No	About Item	Enter a user nan Set the new acco User Type	ne and passwo	rd to add a new u		
(1 No 1	About Item Add user account	Set the new acco	ne and passwo ount managem	rd to add a new u ent permissions	ser	
(i No	About Item	Set the new account of User Type	ne and passwo ount managem Admin	rd to add a new u ent permissions Operator	ser Viewer	
1	About Item Add user account	Set the new acco User Type View images Settings Account	ne and passwo punt managem Admin V	rd to add a new u ent permissions Operator V	Ser Viewer V	
(1 No 1	About Item Add user account	Set the new acco User Type View images Settings	ne and passwo ount managem Admin V V	rd to add a new u ent permissions Operator V V	Ser Viewer V X	
1	About Item Add user account	Set the new acco User Type View images Settings Account management	ne and passwo ount managem Admin V V V V	rd to add a new u ent permissions Operator V V	Ser Viewer V X	
1 2	About Item Add user account Permission setting	Set the new acco User Type View images Settings Account management Add the newly cr	ne and passwo punt managem Admin V V V V	rd to add a new u ent permissions Operator V V X	Ser Viewer V X	



5.2.4 Setting - System Setting

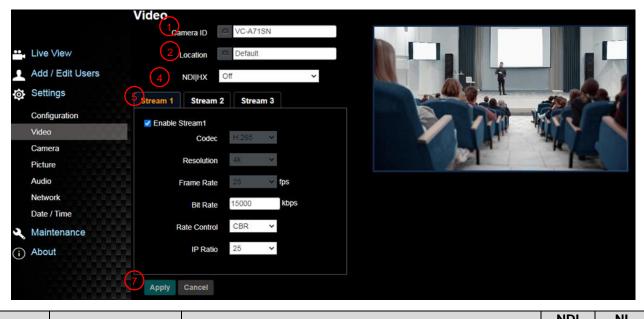
<Remark> Preview pane is not supported when NDI is on





5.2.5 Setting - Video

<Remark> Preview pane is not supported when NDI is on



No	Item	Function Descriptions	NDI ON	NI OFF
1	Camera ID	 Modify the camera name Camera names are limited to 1 - 12 characters Please mix uppercase and lowercase letters or numbers for characters. Special symbols such as "<i>I</i>" and "space" cannot be used <remark> Modifying this field will modify the Onvif device name synchronously</remark> 	V	V
2	Location	 Modify the location of the camera, such as Room1 Camera location is limited to 1-11 characters Please mix uppercase and lowercase letters or numbers for characters. Special symbols such as "/" and "space" cannot be used <remark> Modifying this field will modify the Onvif device location synchronously</remark> 	V	v
3	Group Name	 Video Camera ID VC Location Default Group Name Public NDIJHX On VILLAN The group name can be modified here and set with Access Manager - Receive in NDI Tool If no group is assigned, the machine belongs to Public. As the default of Access Manager includes Public, Studio Monitor can discover this machine If a group is assigned, but this group is not added into Access Manager, Studio Monitor cannot discover this machine If a group is assigned and this group is added into Access Manager, Studio Monitor can discover this machine 	V	

		The name can contain commas (,) to distinguish different groups Example: default, 123, abc means this machine belongs to three groups at the same time (default/ 123/ abc)		
4	NDI HX	 Set HX 2/ HX3/ Off HX 2/ HX3: Support NDI (ONVIF cannot find devices, and RTSP/ RTMP/ RTMPS/ MPEG-TS/ SRT streams cannot be used.) Off: Support RTSP/ RTMP/ RTMPS/ MPEG-TS/ SRT, and ONVIF can find devices but cannot be used with NDI Tool 	V	V
5	Streaming 1 / 2 / 3	This can be seen when <u>5.2.4 Settings - System Settings</u> <u>- Output Signals</u> is set to HDMI + Streaming Turn on streaming function. VC-A71SN supports 3 streaming outputs. Please refer to <u>Streaming Parameter</u> <u>Setting</u> table below for relevant settings		V
6	UVC	This can be seen when <u>5.2.4 Settings - System Settings</u> - Output Signals is set to HDMI + UVC UVC Codec H.264/MJPEG ~ Resolution 1080P ~ Frame Rate 59.94 ~ fps = Encode Format: > 3840x2160 29.97 / 25 fps: H.264 > Less than 1080p (inclusive): H.264/ MJPEG = Resolution: It is shown based on <u>5.2.4 Settings -</u> <u>System Settings - Resolution</u> = Frame Rate: 3840 x 2160 can only select the highest 29.97 fps	V	V
7	Apply	After the setting has been modified, select this button to apply the setting	V	V

Streaming parameter setting

Function	on	Streaming 1	Streaming 2	Streaming 3		
Encode Fo	ormat	H.265	H.2	64		
Resolut	ion	4K /1080P / 720P	1080P / 720P/ 1080i	640x360		
Frame R	late	Setting according to the supported resolution				
	Range	2,000~20,000	2,000~20,000	512~5,000		
Bit Rate(kbps) Factory Default		15,000	7,500	1,000		
Rate Control			CBR / VBR			
IP Rat	io	Setting a	ccording to the supported r	resolution		



5.2.6 Setting - Camera

5.2.6	Setting - Can	nera eview pane is not supported when NDI is on
Adu Se Cor Vid Car Pict Auc Net	ci 1 c e View d / Edit Users ttings nfiguration eo mera ture tio twork te / Time sintenance	amera
		Apply Cancel
No	ltem	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 Shutter Speed: The shutter speed is adjustable when the exposure mode is set to "Manual" or "Shutter Priority"
3	White Balance	 Exposure White Balance Focus Mirror Mode Auto Mode Auto

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		Exposure White Balance Focus Mirror Pan Tilt Zoom Tally Lamp
		Mode Auto ~
		Focus Range – + 2377
		AF Sensitivity Middle V
		AF Frame Center V
		Zoom Tracking On V
		PTZ Assist On V
		Smart AF Off 🗸
4	Focus	One Push AF
		 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 Zoom Tracking: Set the focus mode during lens zooming in Manual
		Focus mode
		 PTZ Assist: In Manual, check whether auto focus is enabled if there is any changes of PTZ
		 Smart AF: Turn on this function and AF will mainly focus on the face One Push AF: When the manual focus mode is on, click the button to
		perform one auto focus
		Exposure White Balance Focus Mirror Pan Tilt Zoom Tally Lamp
5	Mirror	Mirror Off 🗸
	WIITO	 Mirror: Set automatic flip mode
		Mirror: Set automatic flip mode [Off/ Mirror/ Flip/ Mirror + Flip]
		Exposure White Balance Focus Mirror Pan Tilt Zoom Tally Lamp
		Pan/Tilt Limit Off Y
		Pan Right Limit = 170
		Pan Left Limit = + -170
		Tilt Up Limit = + 90
		Tilt Down Limit - + -30
		Pan Flip Off Y
		Tilt Flip Off ~
6	Pan Tilt Zoom	Preset Speed 160 deg/sec v
		PTZ Speed Comp Off v
		Initial Position Last MEM V
		Motionless Preset Off
		D-Zoom Limit ×1 ···
		PTZ Motion Sync Off ✓ ■ Pan/Tilt limit: Set the pan/tilt limit
		 Pan/Tilt flip: Set Pan/Tilt flip
		• Preset Speed: Set the rotation speed of the cradle head when Preset is
		executed PTZ Speed Comp: Set the Pan/Tilt moving speed to vary from the zoom



		 position Initial Position: Set the camera lens to return to the last operated position or the first preset position after POWER ON <remark> First default position = Preset 0</remark> Motionless Preset: When the function is enabled, the screen will Freeze when Preset is executed. Freeze will be released after Preset is completed D-Zoom Limit: Set the D-Zoom Limit, x1 - x12 PTZ Motion Sync: When activated, PTZ synchronization Hour can be achieved by controlling with the <i>Presets</i> <remark> Refer to the Preset speed setting for this feature. The speed may be adjusted automatically due to the difference of PTZ moving range</remark>
7 7	Tally Lamp	 Exposure White Balance Focus Mirror Pan Tilt Zoom Tally Lamp Tally Lamp Disable - Tally CMMD Mode Link - Enable/ Disable Tally Light Indicator Light Link Mode: Set whether the indicator is linked with RS232 command Normal (Not linked): The indicator light status and mode shall be set separately. When the indicator light is on and the default mode is off, additional command is required to set the indicator light mode Setting indicator light Link: When the indicator light is on, the default mode is red light Setting indicator light mode when the indicator light is off will turn on the indicator light

5.2.7 Setting - Picture <Remark> Preview pane is not supported when NDI is on

	Pictu	re	
		Picture Effect Off	
Live	ve View (2)	2D NR 1	
Add	d / Edit Users	3D NR Typ	
Set	ttings	JOINT I'	
Con	nfiguration 4	Image Mode Default	
Vide	eo 5 Imag	e Mode Load Default	
Can	ture 6	Gamma	
Aud	dio (7)	Brightness 7	~
Net	twork		
Date	te / Time 8	Hue 7	*
3 Ma			
Wia	aintenance 9	Saturation 7	*
(i) Abo		Saturation 7 Sharpness 7	• •
2			Function Descriptions
(i) Abo	out	Sharpness 7	Function Descriptions effect, Off/ Neg/ Black and White
i Abo	out 10	Sharpness 7 Set picture	•
(i) Abo No 1	out (1) Item Picture Effect	Sharpness 7 Set picture 2D noise re	effect, Off/ Neg/ Black and White
(i) Abo No 1 2	Item Picture Effect 2D NR	Sharpness 7 Set picture 2D noise re 3D noise re	effect, Off/ Neg/ Black and White eduction settings
Abc No 1 2 3	Item Picture Effect 2D NR 3D NR	Sharpness 7 Set picture 2D noise re 3D noise re The user m When no cu	effect, Off/ Neg/ Black and White eduction settings eduction settings



7	Brightness	Brightness adjustment of the image; Adjustable when the image mode is set to Custom
8	Hue	Hue adjustment; Adjustable when the image mode is set to Custom
9	Saturation	Saturation adjustment of the image; Adjustable when the image mode is set to Custom
10	Sharpness	Adjust the sharpness of the image

5.2.8 Setting - Audio

		Audio		
		1 🗖 Audio Enable		
	Live View			
	👤 Add / Edit Use	2 Audio In Type Line In V		
	Settings	3 Audio Volume 6		
	Configuration	4 Audio Delay Off		
	Video	5 Audio Delay Time(-)		
	Camera			
	Picture	6 Encode Type AAC V		
	Audio	7Encode Sample Rate 48 KHz V		
	Network			
	Date / Time	Apply Cancel		
	A Maintenance			
	i About			
No	Item	Function Descriptions NDI ON	NDI OFF	
1	Audio Enable	Turn on/ off sound V	V	
2	Audio in Type	Set MIC In/ Line In V	V	
3	Audio Volume	Adjust Audio Volume V	V	
4	Audio Delay	Turn on/ off audio delay	V	
5	Audio Delay Time(-)	-) Set the audio signal delay time (-1 ~ -500 ms)		
6	Encode Type	AAC / G.711	V	
7	Encode Sample Rate	Set Encode sample rate > 48 KHz (AAC) > 44.1 KHz (AAC) > 16 KHz (AAC) > 16 KHz (G.711) > 8 KHz (G.711)	V	



5.2.9 Setting - Network

	1 Network		3 RTSP		
Live		DHCP On Y	Enable Multicast		
Add		4 Address 192.168.4.92	Require Password Authentication		
Configuration		Netmask 255.255.255.0	4 MPEG-TS		
Video	- IPv	6 Address xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	Enable MPEG-TS Stream Source Stream 2		
Came		Netmask 2000000000000			
Pictu		Gateway 192.168.4.254	MPEG-TS IP Port 0		
Netw	ork	DNS 192.168.1.211	5 SRT		
		CAddress dote2tact02tb3t2d	Enable SRT Streaming		
Mair Abor	ntenance	Apply	Stream Source Stream 2 V		
			Connection Mode Caller V		
	(2) RTMP / RTM		URL Port 0		
	Publish to Video encod	Server er type : H.264@7500Kbps	Stream ID		
		er type : None	Latency 120 ms		
	Chunk size :	rmat : 720P(59.94) 1412	Encryption None 🗸		
		r Status : RTMP disable	Passphrase		
	EVCAdvance RTMP URL		Connect Status : SRT Disable		
	Stream Key	assword Authentication	6 SNTP Port Setting		
	Account				
	Password		SNTP Server pool.ntp.org		
			7 Tracking Data Output(FreeD)		
			Serial Output IP Output		
			Destination IP 0.0.0.0 Port 0		
				NDI	NDI
No	Item	Function De	scriptions	ON	OFF
4		Notwork patting of comore, Ch	and a state of the state of the later		
1	Network		ange of setting is available	V	
1	Network	when DHCP function is closed		V	
1	Network	when DHCP function is closed Copy the RTMP web address	provided by the RTMP	V	
1		when DHCP function is closed Copy the RTMP web address service platform and paste it to	provided by the RTMP the RTMP connection	V	
2	RTMP/ RTMPS	when DHCP function is closed Copy the RTMP web address service platform and paste it to address to publish the camera	provided by the RTMP the RTMP connection	V	V
		when DHCP function is closed Copy the RTMP web address service platform and paste it to address to publish the camera service platform	provided by the RTMP the RTMP connection images on the RTMP	V	V
	RTMP/ RTMPS	when DHCP function is closed Copy the RTMP web address service platform and paste it to address to publish the camera	provided by the RTMP o the RTMP connection images on the RTMP e streaming, please refer to	V	V
	RTMP/ RTMPS	when DHCP function is closed Copy the RTMP web address service platform and paste it to address to publish the camera service platform To upload to YouTube for live	provided by the RTMP o the RTMP connection images on the RTMP e streaming, please refer to	V	V
	RTMP/ RTMPS	when DHCP function is closed Copy the RTMP web address is service platform and paste it to address to publish the camera service platform To upload to YouTube for live <u>5.2.8 Settings - Audio</u> to turn Enable / Disable Multicast It is suggested to enable Multic	provided by the RTMP o the RTMP connection images on the RTMP e streaming, please refer to on the audio function cast when the number of	V	V
	RTMP/ RTMPS	when DHCP function is closed Copy the RTMP web address is service platform and paste it to address to publish the camera service platform To upload to YouTube for live <u>5.2.8 Settings - Audio</u> to turn Enable / Disable Multicast It is suggested to enable Multic users online watching the image	provided by the RTMP o the RTMP connection images on the RTMP e streaming, please refer to on the audio function cast when the number of	V	V
	RTMP/ RTMPS Setting	when DHCP function is closed Copy the RTMP web address p service platform and paste it to address to publish the camera service platform To upload to YouTube for live <u>5.2.8 Settings - Audio</u> to turn Enable / Disable Multicast It is suggested to enable Multic users online watching the image than 4	provided by the RTMP o the RTMP connection images on the RTMP e streaming, please refer to on the audio function cast when the number of ge simultaneously is more	V	V
	RTMP/ RTMPS	 when DHCP function is closed Copy the RTMP web address is service platform and paste it to address to publish the camera service platform To upload to YouTube for live 5.2.8 Settings - Audio to turn Enable / Disable Multicast It is suggested to enable Multicast It is suggested to enable Multicast than 4 Enable / Disable Password A 	b. provided by the RTMP to the RTMP connection images on the RTMP e streaming, please refer to on the audio function cast when the number of ge simultaneously is more	V	V
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2	RTMP/ RTMPS Setting	 when DHCP function is closed Copy the RTMP web address is service platform and paste it to address to publish the camera service platform To upload to YouTube for live 5.2.8 Settings - Audio to turn Enable / Disable Multicast It is suggested to enable Multicast RTSP connection format or RTSP Player to View the I The username/password is 	b. provided by the RTMP the RTMP connection images on the RTMP e streaming, please refer to on the audio function cast when the number of ge simultaneously is more Authentication can be found in <u>5.1.3 Using</u> Images is the same as the web login	V	
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2	RTMP/ RTMPS Setting	 when DHCP function is closed Copy the RTMP web address is service platform and paste it to address to publish the cameral service platform To upload to YouTube for live 5.2.8 Settings - Audio to turn Enable / Disable Multicast It is suggested to enable Multicast It is suggested to enable Multicast It is suggested to enable Multicast Enable / Disable Password A RTSP connection format control RTSP Player to View the I The username/password is password of the camera, pl Management to add/ modi Enable Multicast IP Setting 239.2 	provided by the RTMP o the RTMP connection images on the RTMP e streaming, please refer to on the audio function cast when the number of ge simultaneously is more Authentication can be found in <u>5.1.3 Using Images s the same as the web login lease refer to <u>5.2.3 Account fy account information ettings 55. 0.1 </u></u>	V	
2	RTMP/ RTMPS Setting	 when DHCP function is closed Copy the RTMP web address is service platform and paste it to address to publish the camera service platform To upload to YouTube for live <u>5.2.8 Settings - Audio</u> to turn Enable / Disable Multicast It is suggested to enable Multic users online watching the image than 4 Enable / Disable Password A RTSP connection format or RTSP Player to View the I The username/password is password of the camera, pl Management to add/ modi Enable Multicast to proceed set 	provided by the RTMP o the RTMP connection images on the RTMP e streaming, please refer to on the audio function cast when the number of ge simultaneously is more Authentication can be found in <u>5.1.3 Using Images s the same as the web login lease refer to <u>5.2.3 Account fy account information ettings 55. 0.1 </u></u>		
2	RTMP/ RTMPS Setting	 when DHCP function is closed Copy the RTMP web address is service platform and paste it to address to publish the cameral service platform To upload to YouTube for live 5.2.8 Settings - Audio to turn Enable / Disable Multicast It is suggested to enable Multicast It is suggested to enable Multicast It is suggested to enable Multicast Enable / Disable Password A RTSP connection format control RTSP Player to View the I The username/password is password of the camera, pl Management to add/ modi Enable Multicast IP Setting 239.2 	provided by the RTMP o the RTMP connection images on the RTMP e streaming, please refer to on the audio function cast when the number of ge simultaneously is more Authentication can be found in <u>5.1.3 Using Images s the same as the web login lease refer to <u>5.2.3 Account fy account information ettings 55. 0.1 </u></u>		
2	RTMP/ RTMPS Setting	 when DHCP function is closed Copy the RTMP web address is service platform and paste it to address to publish the camera service platform To upload to YouTube for live 5.2.8 Settings - Audio to turn Enable / Disable Multicast It is suggested to enable Multicast It is suggested to enable Multicast It is suggested to enable Multicast Enable / Disable Password A RTSP connection format content of the camera, player to View the I The username/password is password of the camera, players to proceed set Enable Multicast IP Setting 239.2 Netmask 255.2 	provided by the RTMP o the RTMP connection images on the RTMP e streaming, please refer to on the audio function cast when the number of ge simultaneously is more Authentication can be found in <u>5.1.3 Using Images s the same as the web login lease refer to <u>5.2.3 Account fy account information ettings 55. 0.1 </u></u>		
2	RTMP/ RTMPS Setting	when DHCP function is closed Copy the RTMP web address service platform and paste it to address to publish the camera service platform To upload to YouTube for live <u>5.2.8 Settings - Audio</u> to turn Enable / Disable Multicast It is suggested to enable Multic users online watching the image than 4 Enable / Disable Password A • RTSP connection format or <u>RTSP Player to View the I</u> • The username/password is password of the camera, pl <u>Management</u> to add/ modi Enable Multicast IP Setting 239.2 Netmask 255.2 Discovery Server Server IP	provided by the RTMP o the RTMP connection images on the RTMP e streaming, please refer to on the audio function cast when the number of ge simultaneously is more Authentication can be found in <u>5.1.3 Using Images s the same as the web login lease refer to <u>5.2.3 Account fy account information ettings 55. 0.1 </u></u>		
2	RTMP/ RTMPS Setting	 when DHCP function is closed Copy the RTMP web address is service platform and paste it to address to publish the cameral service platform To upload to YouTube for live 5.2.8 Settings - Audio to turn Enable / Disable Multicast It is suggested to enable Multicast It is suggested to enable Multicast It is suggested to enable Multicast Enable / Disable Password A RTSP connection formation formation The username/password is password of the camera, pl Management to add/ modi Enable Multicast IP Setting 239.2 Netmask 255.2 	provided by the RTMP o the RTMP connection images on the RTMP e streaming, please refer to on the audio function cast when the number of ge simultaneously is more Authentication can be found in <u>5.1.3 Using Images s the same as the web login lease refer to <u>5.2.3 Account fy account information ettings 155. 0.1 </u></u>		



				1
		a maximum value of 9999 <remark></remark> The following port is 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 <remark> The following port is used by the camera. Setting of the port may not connect correctly 8554, 8556, 8557, 8080, 9090, 1935</remark> Delay time is for 20 to 8000 microseconds. The default value is 120 microseconds 		V
6	SNTP/ Port Setting	 SNTP Port Setting HTTP Port 80 HTTPS Port 81 Set HTTP port. The default Port value is 80 Set HTTPS port. The default Port value is 81 <remark> Change of setting is available only when DHCP function of camera is closed</remark> 	V	V
7	Tracking Data Output (FreeD)	 When enabled, PTZ position information can be reported when the camera moves 1. Serial Output: Please set the protocol to VISCA and the baud rate to 38400 (Please refer to 5.2.13 Setting - Maintenance - System Service for relevant settings.) 2. IP output: Set the IP address and port Remark> When Tracking Data Output is enabled, the camera performance may be affected. 	V	V

5.2.10 Setting - Time

	Date / Time					
		1 Time in Camera Date 2014/10/10 Time 00:15:44				
	Live View	2 Set Time • Set Manually				
	Add / Edit Users	Date 2021/8/17 Time 15 V Hr : 30 V Min : 39 V Sec				
	Settings	Synchronize with Computer Time				
	Configuration	Date 2021/8/17 Time 15:30:40				
	Video	Synchronize with SNTP Server				
	Camera	SNTP Server pool.ntp.org				
	Picture	Time Zone GMT+08 Taipei, Beijing, Chong 🗸				
	Audio	Automatically Adjust for Daylight Saving Time				
	Network	Automatically Aujust for Daylight Saving Time				
	Date / Time	Apply Cancel				
	A Maintenance					
	(i) About					
No	ltem	Function Descriptions				
1	Time in Camera	Display the date and time of the camera				
2	Set Time	 Manual Configuration: Set time manually Synchronize with computer time: Set the camera time according to the computer time Synchronize with SNTP server: Set the camera time synchronously with the SNTP server <remark> SNTP server address: Please change in network setting</remark> 				
	®					



5.2.11 Setting - Maintenance - Upgrading Firmware

			Maintenan	ce		
			FW Upgrade	Error Log	System Service	Reboot
	Live View					
	Add / Edit Users	;				
	Settings		Choose File			Upgrade
	Configuration					
	Video					
	Camera					
	Picture					
	Audio					
	Network					
	Date / Time					
	🔍 Maintenance					
	(i) About					
No	Item				n Descriptions	
1	FW Upgrade		d, please down		aded via web pag upgrade manual fr	

5.2.12 Setting - Maintenance - Incident Log

			Ма	aintenan	ce			
			FV	V Upgrade	Error Log	System Service	Reboot	
	••	Live View	E	irror Log 00 00	00 00 00 00 00 00	00 00 00		
	2	Add / Edit User	6		00 00 00 00 00 00 00 00 00 00 00 00 00			
	ø	Settings			00 00 00 00 00 00 00 00 00 00 00 00 00			
		Configuration			00 00 00 00 00 00	00 00 00		
		Video		Cle	an			
		Camera						
		Picture						
		Audio						
		Network						
		Date / Time						
	عر	Maintenance	1000					
	í	About						
No		ltem				n Descriptions		
1	Error	Logs	<remark></remark>	When an e		n error code log w pears, the user m		



5.2.13 Setting - Maintenance - System Service

	-	Maintenance
		FW Upgrade Error Log System Service Reboot
	Live View	1 Factory Reset
	Add / Edit Users	
4	Settings	Factory Reset Reset
	Configuration Video Camera Picture Audio Network Date / Time Maintenance	2 Setting Profile Load Save 3 Control Port Protocol Baud Rate VISCA Address Pelco D Address Control Port RS-232 Apply
(i) About	
No	ltem	Function Descriptions
1	Factory Reset	Select the reset button to resume the factory default setting as the web page setting
2	Setting Profile	The web page setting parameters can be exported from the computer and imported/applied to another camera
3	Communication protocol related settings	Communication protocol related settings for the use of connecting RS-232/ RS-422 communication

5.2.14 Setting - Maintenance - Reboot

		Maintenance
		FW Upgrade Error Log System Service Reboot
	Live View	Reboot
	Add / Edit Use	ers Disable
	Settings	B ● Daily Reboot
	Configuration	00:00 🗸
	Video	↓ Timing Reboot
	Camera	
	Picture	
	Audio	Apply Cancel
	Network	
	Date / Time	
	A Maintenance	
No	Item	Function Descriptions
1	Reboot	Reboot immediately
2	Disable	Disable the reboot settings
3	Daily Reboot	Set the daily reboot time Remark> Please go to <u>5.2.10 Settings - Time</u> to complete the SNTP server synchronization to set daily reboot
4	Timing Reboot	Set the timing reboot time



5.2.15 About

	Abo	but
	Add / Edit Osers	Camera ID VC-A72N Firmware Version VCBC104 Detail Information VMG100_VMF101_VWM102_VWL103_VML127_VMK107_VMM106_VMN105_VMO107 Serial Number VAPD02361 Uptime 1:44
No	ltem	Function Descriptions
1	Camera ID	Display the camera name
2	Firmware Version	Display the firmware version of the camera
3	Detail Information	Display firmware version-related information
4	Serial Number	Display the camera serial No.
5	Uptime	Display the running time of the camera (the time will be reset when the camera is rebooted or turned off)



6.1 DIP SWITCH

6.1.1 OUTPUT Switch (Switch to different output resolutions)

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

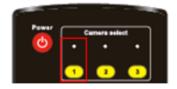
39ABCL	ID	Output	Frame Rate
		Resolution	Frame Kate
0 1 13	0	3840x2160p	59.94
	1		50
	2		29.97
	3		25
	4	1920x1080p	59.94
	5		50
	6		29.97
	7		25
	8	1280x720p	59.94
	9		50
	Α		Reserved
	В		Reserved
	С	1920x1080i	59.94
	D		50
	E	Deserved	Decerved
	F	Reserved	Reserved

6.1.2 IR SELECT (Selected by Remote control)

When using the remote control, please make sure the settings of IR SELECT and the Camera Select of the remote control are consistent

_		_
1	2	3

ID	Setting
1	
2	
3	





Chapter 7 Troubleshooting

This chapter describes problems you may encounter while using VC-A71SN. 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 the service center.

No.	Problems	Solutions
1.	Boot without power signal	 Make sure you have plugged in the power cord. When using a PoE connection, ensure that the power supply supports POE++ (IEEE802.3bt) routers or hubs
2.	There is no image output from VC-A71SN	 Check the power supply or PoE supply functions. Confirm the output signals are in streaming output. Confirm whether the camera resolution can be used together with the monitor equipment If 4k output, confirm the monitor equipment supports 4K output Replace the cables and make sure they are not faulty.
3.	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
4.	Whether the Internet can be used for operation	Please refer to <u>Chapter 5 Network Function Description</u> for the Internet usage
5.	Tally lamp is not working when applying RS232 setting	 Please make sure if the Tally lamp function is enabled from the setting menu or web page. Setting Menu: System - Tally Lamp Web page: Setting - Camera - Tally Lamp
6.	The camera does not save the relevant parameters (PTZ, AWB …) after reboot	 Please make sure if the Initial Position is set to Last Operated Position from the setting menu or web page Setting Menu: System - Initial Position Web page: Setting - Camera - Pan Tilt Zoom
7.	Tracking Data Output is delayed or not updated	Please confirm that the camera is not in the following status The following function settings may cause data output to be delayed or not updated: - Modify output resolution - Modify camera mode - Modify HDMI format - Turn on the setting menu - Streaming Setting - Audio Source Setting
8.	The NDI/ Onvif software cannot find the machine	Either NDI or ONVIF can be used. Please ensure the settings on [Setting] > [Video] > [NDI HX] page is set properly



Chapter 8 Safety Instructions

Always follow these safety instructions when setting up and using the product:

1 Operation

- 1.1 Please use the product in the recommended operating environment, away from water or source of heat
- 1.2 Do not place the product on a tilted or unstable trolley, stand or table.
- 1.3 Please clean the dust on the power plug prior to usage. Do not insert the product's power plug into a multiplug to prevent sparks or a fire.
- 1.4 Do not block the slots and openings in the case of the product. They provide ventilation and prevent the product from overheating.
- 1.5 Do not open or remove covers, otherwise it may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
- 1.6 Unplug the product from the wall outlet and refer servicing to licensed service personnel when the following situations happen:
 - If the 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 mount you use is in line with UL or CE safety approbations and installed by technician personnel approved by agents.

3 Storage

- 3.1 Do not place the product where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- 3.2 Unplug this product during thunderstorms or if it is not going to be used for an extended period.
- 3.3 Do not place this product or accessories on top of vibrating equipment or heated objects.

4 Cleaning

- 4.1 Disconnect all the cables prior to cleaning and wipe the surface with a dry cloth. Do not use alcohol or volatile solvents for cleaning.
- 5 Batteries (for products or accessories with batteries)
 - 5.1 When replacing batteries, please only use similar or the same type of batteries
 - 5.2 When disposing of batteries or products, please adhere to the relevant instructions in your country or region for disposing of batteries or products

Precautions



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



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

FCC Warning

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

Notice :

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

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

IC Warning

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada. Cet appareil numerique respecte les limites de bruits radioelectriques applicables aux appareils numeriques de Classe A prescrites dans la norme sur le material brouilleur: "Appareils Numeriques," NMB-003 edictee par l'Industrie.

EN55032 CE Warning

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



Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information

Manufacturer : Lumens Digital Optics Inc. Product Name : VC-A71SN Model Number : PTZ Video Camera

Responsible Party – U.S. Contact Information

Supplier : Lumens Integration, Inc. 4116 Clipper Court, Fremont, CA 94538, United States e-mail : support@mylumens.com

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



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