VC-BC701P Ultra HD Camera (4K UHD Box Camera)

User Manual - English



Version VCAX104

[Important]

To download the latest version of Quick Start Guide, multilingual user manual, software, or driver, etc., please visit Lumens <u>http://www.MyLumens.com/support</u>

Table of Contents

Copyright Information	2
Chapter 1 Safety Instructions	3
Chapter 2 Package Contents	5
Chapter 3 Function Introduction	6
3.1 I/O functions Introduction	6
3.2 Tally Indicator Light Function Description	6
Chapter 4. Instruction for installation	7
4.1 Basic Devices	7
4.2 Connecting devices	8
Chapter 5. Network Function Settings Description	. 10
5.1 Web System Requirements	10
5.2 Connecting Camera to Network	10
5.3 Web Page Function Description	13
Chapter 6. Troubleshooting	. 28
Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information	. 29



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Chapter 1 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.
- 1.2 Do not place the product in tilted position.
- 1.3 Do not place the product on an unstable trolley, stand or table.
- 1.4 Do not use this product near water or source of heat.
- 1.5 Use attachments only as recommended.
- 1.6 Use the type of power source indicated on the product. If you are not sure of the type of power available, consult your distributor or local electricity company for advice.
- 1.7 Always take the following precautions when handling the plug. Failure to do so may result in sparks or fire:
 - Ensure the plug is free of dust before inserting it into a socket.
 - Ensure that the plug is inserted into the socket securely.
- 1.8 Do not overload wall sockets, extension cords or multi-way plug boards to avoid potential risks.
- 1.9 Do not block the slots and openings in the case of product. They provide ventilation and prevent the product from overheating.
- 1.10 Except as specifically instructed in this User Manual, do not open or remove covers, otherwise it may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
- 1.11 Unplug the product from the wall outlet and refer servicing to licensed service personnel when the following situations happen:
 - If the power cords are damaged or frayed.
 - If liquid is spilled into the product or the product has been exposed to rain or water.

2 Installation

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

3 Storage

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

4 Cleaning

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



Precautions

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

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



FCC Warning

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

Notice :

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

IC Warning

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

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

■ EN55032 (CE Radiation) Warning

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



VC-BC701P	Power Cord	Power Adapter
Lumens: eserver	A p p e a rance may vary depending on country/region	
Instruction for installation		
Quick Installation Guide		



Chapter 3 Function Introduction



NO.	ltem	Function Descriptions
1.	Lens	30x HD camera lens
2.	Tally indicator light	Display the tally light status of the camera
3.	Network port	Network port. Support routers or hubs (IEEE 802.3 af) with PoE power supply support
4.	HDMI output	The factory output resolution is 4K/30. Please make sure that the connected display device supports 4K resolution
5.	RS232 output	RS232 output port. At most 7 cameras can be connected in a serial connection
6.	RS232 input	RS232 input port. At most 7 cameras can be connected in a serial connection
7.	DC 12 V power connector	AC power supply connecting port
8.	Power indicator light	After power is on, the indicator light will display in red
9.	Audio input	Support Line In / Mic In
10.	Audio output	Support 3.5 mm audio input
11.	Tripod screw holes	The camera is mounted on a (specification) 1/4", 20 UNC tripod deck or installed on VC-WM11 (optional)
12	Locating holes	Ø5; depth 2 mm
13	Reset button	Hold the button to reset the camera settings

3.2 Tally Indicator Light Function Description

3.2.1 The Tally light function may be enabled through the control of RS232 command. Please refer to <u>VC-BC701P RS-232 command set</u> document



4.1 Basic Devices

4.1.1 VC-BC701P size

Length x Width x Height : $169 \times 67.0 \times 67.0 \text{ mm}$



4.1.2 Installation method

4.1.2.1 Wall-mounted frame: The camera is installed on the wall, using Lumens VC-WM11 (optional) wall-mounted frame



4.1.2.2 Tripod: The camera is mounted on a 1/4", 20 UNC PTZ tripod deck





4.2 Connecting devices

4.2.1 HDMI connection to TV/display screen



4.2.2 Connecting to Internet



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

4.2.3 Connecting AUDIO IN





4.2.4 Connecting RS-232

RS-232 serial connection

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



RS-232 pin definition description

RS-232 IN Pins Instructions

	NO	Pins	Signals
\frown	1	DTR	Data Transmission Reade
876	2	DSR	Data Set Reade
5 43)	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

876	NO	Pins	Signals
	1	DTR	Data Transmission Reade
	2	DSR	Data Set Reade
5 43)	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





5.1 Web System Requirements

5.1.1 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

5.2 Connecting Camera to Network

5.2.1 Connecting to Internet

Two common connection methods are shown below

1. Connecting via switch or router



 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 VC-BC701P is <u>192.168.100.100</u>. The

computer IP address must be set with the same subnet, such as $\underline{192.168.100.101}$, so that the computer can be connected correctly with the camera

Connection diagram



VC-BC701P

• Change network settings

eneral	
'ou can get IP settings assigned aut nis capability. Otherwise, you need to ne appropriate IP settings.	omatically if your network supports o ask your network administrator for
Obtain an IP address automatic	ally
○ <u>O</u> btain an IP address automatic ③ Use the following IP address:	ally
 Obtain an IP address automatic Use the following IP address: IP address: 	ally
O Debtain an IP address automatic O Use the following IP address: IP address: Subnet mask:	ally 192.168.100.101 255.255.255.0



Computer

5.2.2 Using Lumens VMS Software to View the Images

- The VC-BC701P DHCP initial setting is ON. If VC-BC701P is connected to the local area network (LAN), the camera IP can be retrieved via the following methods
- Install Lumens VMS software (Please download from the Lumens official website, <u>http://www.mylumens.com/support</u>)
 - Open *LUMENS VMS* software
 - Search for the camera: Press [automatically search for the device] button to locate the VC-BC701P camera
 - Click VC-BC701P 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

I VMS	
Language About	
	CPU 5% Memory 82%
Device Name IP Address VC-BC701P 192.168.4.39	2
Pan Tilt ImageSettings	
Zoom Speed Pan Tit 1 Preset 0 - Save	
P0 P1 P2 P3	
P4 P5 P6 P7	
P8 P9 P10 P11	
P12 P13 P14 P15	

5.2.3 Using the Browser to View the Images

- Open the browser, and enter the URL of VC-BC701P in the IP address bar e.g.: <u>http://192.168.100.100</u> (default IP address)
- Enter administrator's account and password Account: admin (Default) Password: 9999 (Default)
 <Remark> For a first-time login, please refer to <u>5.3.3 Account Management</u> to change the default password





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

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

RTSP Main Streaming

rtsp://Username:Password@VC IP address:port/hevc

 RTSP Sub1/ Sub2 Streaming rtsp://Username:Password@VC IP address:port/h264

• To enable password authentication function, please refer to <u>5.3.9 Setting-Network</u> Example: Open VLC software and input the URL: <u>rtsp://192.168.100.150:8557/h264</u>









5.3 Web Page Function Description

5.3.1 Login Screen

User Name User Name Password Password English Image: State of the state of t				
No	Item	Function Descriptions		
1	Username	Enter user account name (default: admin)		
2	Password	Enter user password (default: 9999) <remark></remark> For a first-time login, please refer to <u>5.3.3 Account</u> <u>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		



5.3.2 Viewing In Real Time

	💾 Live View	Live View 5 C
	Add / Edit Users	
	Settings	4 5 6
	Configuration	7 8 9
	Video Camera	0 Clean
	Picture	Save Load
	Audio	
	Network Date / Time	
	کې Maintenance	
	(i) About	
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



5.3.3 Account Management

Maintenance About	vc ≞ ⊉ ¢	C-BC701P Add / Live View 1 Add / Edit Users 1 Settings 2 Configuration 2 Video 2 Camera 2 Picture 4 Audio 4 Network 2 Date / Time 4	Edit Users	User Name Password Confirm Password Authority • Adr OK User Name admin	nin O Operator N Cancel	frewer Authority Administrator	Edit	
No Item Function Descriptions	م آن No	Maintenance About			Function D	escriptions		
1 Add user account Enter a user name and password to add a new user	1	Add user account	Enter a use	er name and p	bassword to	add a new use	er	
2Permission settingSet the new account management permissions2Permission settingUser TypeAdminOperatorViewerView imagesYYYSettingsYYNAccount managementYNN	2	Permission setting	Set the new Us Vie A mar	v account ma ser Type w images Settings Account nagement	nagement p Admin Y Y Y	ermissions Operator Y Y N	Viewer Y N N	
3 Applying setting Add the newly created user to the account list 4 List of accounts Edit: Modify the user password and permissions	3	Applying setting	Add the new Edit: Modify	wly created u y the user pas	ser to the ac ssword and	ccount list permissions		



5.3.4 Setting-System Setting

		Configuration		
		1 Resolution 3840x2160/29.97p -		
	Live View Add / Edit Lisers	2 Output Source HDMI+Streaming +		
	Settings	3 HDMI Format YUV422 ~		
	Configuration	4 Overlay		
	Video Camera	Top Left Off		
	Picture	Top Right Off 🗸		
Audio Network		Apply Carcal		
	Date / Time			
	Maintenance About			
No	Item	Function D	Descriptions	
		Set the resolution of the camera. Res	olutions supported by the camera are	
		as follows:		
		3840x2160P 60/ 59.94/ 50/ 30/ 29.97/ 25 fps		
		1080P 60/ 59.94/ 50/ 30/ 29.97/ 25 fps		
1	Resolution	720P 60/ 59.94/ 50/ 30/ 29.97/ 25 fps		
		1080i 60/ 59.94/ 50 fps		
		After switching to the resolution, the c	amera will restart. Please refresh the	
		browser		
		According to the output resolution, sel streaming output, or HDMI + streamin supported by different resolution, plea	ections are available for HDMI output, ng output. For output signals ase refer to the following table:	
		Resolution	Available output modes	
	Output signal	3840x2160 60/ 59.94/ 50	HDMI or streaming single output	
2	Output signal	3840x2160 30/ 29.97/ 25		
		1080p 60/ 59.94/ 50/ 30/ 29.97/ 25	Simultaneous HDMI and streaming outputs	
		720p 60/ 59.94/ 50/ 30/ 29.97/ 25		
		1080i 60/ 59.94/ 50		
3	HDMI Format	Select YUV422, YUV420 or RGB Remark> YUV420 is only available 3840x2160/ 59.94p and 3840x2160 for all other resolutions	e for these two resolutions, / 50p and remains in display mode	
4	Overlay	Set the stream to display "date and display "location" <remark>"Custom Content" subr</remark>	time" or "custom content" and to ports up to 30 characters	



5.3.5 Setting-Video

	VC-BC701P	Video 1 camera ID VC-BC701P
	Live View	2 Location Default
	Add / Edit Users	3 Stream 1 Stream 2 Stream 3
	🔅 Settings	Enable Stream2
	Configuration	Codec H.264 ~
	Video	Resolution 1080P V
	Camera	Frame Pate 29.97 Y fps
	Picture	Pit Data 7500 Kbps
	Network	
	Date / Time	Rate Control CBR V
	🔍 Maintenance	IP Ratio 15 🗸
	(i) About	
		Appiy Cancel
No	Item	Function Descriptions
		Modify the camera name
		Camera names are limited to 1-12 characters
1	Camera name	Please use a camera name by mixing uppercase and lowercase letters and numbers. Do not use "/" and
		"space" or special symbols
		<note> Modifying this field will modify the Onvif device name synchronously</note>
		Modify the location of the camera, such as Meeting Room 1
		 Camera locations are limited to 1-11 characters Please use a camera name by mixing uppercase and
2	Camera location	lowercase letters and numbers. Do not use "/" and
		"space" or special symbols
		<note> Modifying this field will modify the Onvif device location synchronously</note>
3	Streaming 1 / Streaming 2 /	VC-BC701P supports 3 streaming outputs. Please refer to <u>5.3.5.1</u>
4	Open streaming	Confirm the streaming function

5.3.5.1 Streaming parameter setting

Function	Streaming 1	Streaming 2	Streaming 3
Encode Format	H.265	H.	264
Resolution	4K /1080P / 720P	1080P / 720P/ 1080i	D1
Frame rate	Setting a <remark></remark> Only supp 1080i	according to the supported orts 59.94/ 50 when the	d resolution e stream 2's resolution is



	Range	2,000~20,000	2,000~20,000	512~5,000		
Bit Rate(kops)	Factory default	15,000	15,000 7,500			
Rate control		VBR / CBR				
IP ratio		Setting according to the supported resolution <remark></remark> Only supports 15 / 25 when the resolution is 1080i				

5.3.6 Setting-Camera

	Camera	
■	Live View Add / Edit Users Settings Configuration //deo Camera Picture Audio Network Date / Time Maintenance About Apply Car	Image: Construction of the Balance Pocus Mode Full Auto Inis Fally Lamp December 2010 Mode Full Auto Inis Shutter Speed Inio Shutter Speed Inio
No	Item	Function Descriptions
1	Zoom ratio	Adjust the zoom-in or zoom-out ratio via scroll bar
2	Exposure	 Exposure White Balance Focus Mirror Tally Lamp D-Zoom Limit Mode Full Auto Iris F3.2 Exposure Comp. Level - + 0 WDR off Gain 0 dB Shutter Speed 1/60 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" 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 Tally Lamp D-Zoom Limit Mode Auto ~ One Push Trigger Manual Red - + 64 Manual Blue - + 64



		Mode: Select the color temperature mode					
		• Auto					
		• Indoor					
		Outdoor					
		 One Push WB ATW Manual 					
		Sodium Lamp					
		• 3000K/ 4300K/ 5000K/ 6500K/ 8000K					
		• 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					
		Exposure White Balance Focus Mirror Tally Lamp D-Zoom Limit					
		Mode Auto ~					
		Focus Range - + 452					
		AF Sensitivity Middle ✓					
		AF Frame Auto ~					
		Zoom Tracking Off V					
		Smart AF On ~					
		Preset AF On ~					
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 Trocking: The focus can be set during long zooming in					
		Manual Focus mode					
		Smart AF: Turn on this function and AF will mainly focus on the face					
		Preset AF: Set whether to perform auto focus after Preset					
		• One Push AF: When the manual focus mode is on, click the button					
		to perform one auto focus					
		Exposure White Balance Focus Mirror Tally Lamp D-Zoom Limit					
		Mirror Off V					
5	Mirror	Mirror: Set automatic flip mode					
		• Off					
		• Mirror					
		• Flip					
		• Mirror + Flip					
		Exposure White Balance Focus Mirror Tally Lamp D-Zoom Limit					
	Tolly Light	Tally Lamp Disable ~					
6	rally Light						
	®						

		 Enable/ Disable Tally Light Tally CMMD Mode: Set whether the indicator light is linked with RS232 command 						
		 General (Not linked): The indicator light switch 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 the indicator light mode when the indicator light is off will not trigger the indicator light						
		• Link:						
		-When the indicator light is on, the default mode is red light						
		-Setting the indicator light mode when the indicator light is off will turn on the indicator light						
		Exposure White Balance Focus Mirror Tally Lamp D-Zoom Limit						
7	D-Zoom Limit	D-Zoom Limit X1 V						
		Set the D-Zoom Limit, x1-x12						



5.3.7 Setting-Picture

			Picture		
			1 Picture Effect	Off	*
Live View		w	2D NR	1	*
	👤 Add / Ed	dit Users		_	
	Settings		3)3D NR	Тур	*
	- Configura	tion	4 Image Mode	Default	*
	Video		5 Image Mode Load	Default	~
	Camera				
	Picture		6 Gamma	3	¥
	Audio		7 Brightness	7	×
	Network		8 Hue	7	~
	Mainton	3000	\sim		
		ance	9 Saturation	7	~
	(i) About		10 Sharpness	7	~
No	Item		Function De	escriptions	
1	Picture effect	Set picture effe	ect, Off / Film / Black a	nd White	
2	2D noise reduction settings	2D noise reduc	ction settings		
3	3D noise reduction settings	3D noise reduc	ction settings		
4	Image mode	The user may	customize his/her desi	red image mo	ode
5	Image mode load	When no custo to the factory o	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 Custom				age mode is set to	
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 adju	ustment; Adjustable wh	nen the image	mode is set to
10	Sharpness	Adjust the sha	rpness of the image		



5.3.8 Setting-Audio

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



5.3.9 Setting-Network

	Network	
😐 Live View		
Add / Edit U	Jsers IDv4 Address	Enable Multicast 192.169.4.46 Require Password Authentication
Settings	ID/4 Natmark	
Configuration		
Video	IPv6 Address	Enable MPEG-IS Stream Source Stream 2
Camera	IPv6 Netmask	MPEG-TS IP Port 0
Audio	Gateway	
Network	DNS	192 166.1.211
Date / Time	MAC Address	Enable SRT Streaming
A Maintenance	:e	Apply Stream Source Stream 2 V
(i) About		Connection Mode Caller v
	2 RTMP / RTMPS	URL Port 0
	Publish to Server Video encoder type : H.26	4@7500Kbps
	Audio encoder type : None	e Latency 120 ms
	Resolution format : 1080P Chunk size : 1412	(29.97) Encryption None V
	RTMP Server Status : RTM	MP disable Passphrase
	dvance" RTMP URL	Connect Status : SRT Disable
	Stream Key	
	Require Password Auth Account	6 SNTP Port Setting
	Password	SNTP Server pool.ntp.org
No	ltem	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 < Remark> To upload to YouTube for live streaming, please see <u>5.3.8</u> Setting - Audio to turn on the audio function first
3	RTSP Setting	 Enable/Disable Multicast. It is suggested to enable Multicast when the number of users online watching the live image simultaneously is more than 4 Enable/Disable Password Authentication RTSP connection format can be found in <u>5.2.4 Using RTSP</u> <u>Player to View the Images</u> The username/password is the same as the web login password of the camera, please refer to <u>5.3.3 Account Management</u> to add/modify account information
		The port number must be set in the range above 1024 with a maximum value of 9999
4	MPEG-TS Setting	<remark> The following port has been used by the camera. Setting of the port may not connect correctly</remark>
		8554, 8556, 8557, 8080, 9090, 1935
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 number has been used by the camera. Setting of the port number may not connect correctly 8554, 8556, 8557, 8080, 9090, 1935 Delay time is for 20 to 8,000 microseconds. The default value is 120 microseconde



		SNTP Setting: Set SNTP Server IP
		Port Setting: Set HTTP port. The default Port value is 80
		SNTP Port Setting
6	SNTP / Port Setting	HTTP Port 80 HTTPS Port 81
		<remark> Change of setting is available only when DHCP function of camera is closed</remark>

5.3.10 Setting-Time

		Date / Time			
		1 Time in Camera Date 2014/10/10 Time 01:39:34			
tive Live	e View	Set Time Set Manually			
Ado	d / Edit Users	Date 2022/11/16 Time 17 \checkmark Hr : 22 \checkmark Min : 24 \checkmark Sec			
io Set	tings	Synchronize with Computer Time			
 Con	figuration	Date 2022/11/16 Time 17:22:27			
Vide		Synchronize with SNTP Server			
Can	nera	SNTP Server pool.ntp.org			
Pict	ure	Time Zone GMT+08 Taipei, Beijing, Chonc			
Aud	io				
Net	work	Automatically Adjust for Daylight Saving Time			
Date	e / Time	Apply Carcel			
🔍 Ma	intenance	Apply Guider			
(i) Abo	out				
)					
No	Item	Function Descriptions			
1	Camera Time	Display the date and time of the camera			
Set Manually: Set time manually					
		Synchronize with computer time: Set the camera time according			
2	Set the Time	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>			



5.3.11 Setting-Maintenance - Upgrading Firmware

		FW U	pgrade	Error Log	Security	System Service	Reboot
	Live View						
	Add / Edit Users						
	Settings	Cho	oose File			Upgrade	
	Configuration						
	Video						
	Camera						
	Picture						
	Audio						
	Network						
	Date / Time						
	🔍 Maintenance	00					
	(i) About						
No	Item			Fun	nction Des	criptions	
1	Firmware Update	The camera method, ple website	a firmwa ease do	are may be wnload the	e upgrade e FW upg	d via web page rade manual fr	e. For the uron com Lumer

5.3.12 Setting-Maintenance - Incident Log

		FW Upgrade	Error Log	Security	System Service	Reboot
	Live View	Error Log	00 00 00 00 00	00 00 00		
	Add / Edit Users	00 00	00 00 00 00 00 00 00 00	00 00 00 00 00		
	Settings	00 00	00 00 00 00 00 00 00	00 00 00 00 00		
	Configuration	00 00	00 00 00 00 00	00 00 00		
	Video	Cle	an			
	Camera					
	Picture					
	Audio					
	Network					
	Date / Time					
	A Maintenance					
	(i) About					
No	Item		F	unction D	escriptions	
		If the camera er	ncounters e	errors, an	error code log	will be established
1	Event Logs	<remark> Wi clear and conf</remark>	hen an eri irm if the	or code error will	appears, the u repeat itself	user may try to



5.3.13 Setting-Maintenance - Security

		EW/ Harmada	Emeral en	(Charling and	Sustan Candian	Debest	
	 Live View Add / Edit Users Settings Configuration Video Carnera Picture Audio Network Date / Time Maintenance About 	FW Upgrade 802.1x setting EAP k EAP Pas EAP m Imp CA certificate Issu Subje	Error Log able able dentify assword assword assword assword assword assword assword as a sector of the sector of t	Security P v pose File	System Service	Reboot	
No	Item			Funct	ion Descriptio	ons	
1	802.1x Setting	Enable/ disa enabled < Remark> this feature	able 802 The rou	2.1x protetter must	ocol, and co support 802	onfigure 2.1x pro	settin

5.3.14 Setting-Maintenance - System Service

		Maintenance		
		FW Upgrade Error Log Security System Service Reboot		
	Live View	1) Factory Reset		
	Add / Edit Users	Period Deset		
	Settings	Factory Reset		
	Configuration Video	2 Setting Profile		
	Camera Picture	Load Save		
	Audio	3 Protocol Baud Rate VISCA Address Pelco D Address		
	Network Date / Time	Protocol VISCA V		
	Maintenance			
	(i) About	Арріу		
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	Communication protocol related settings	Communication protocol related settings for the use of connecting RS-232/ RS-422 communication		



5.3.15 Setting-Maintenance - Reboot

		Maintenance		
		FW Upgrade Error Log System Service Reboot		
	Live View	1 Reboot		
	Add / Edit Users	Disable		
	Settings	3 ● Daily Reboot		
	Configuration	0:00		
	Video	Timing Reboot		
	Camera	1 HR V		
	Picture			
	Audio	Apply Cancel		
	Network			
	Date / Time			
	A Maintenance			
	(i) About			
No	Item	Function Descriptions		
1	Reboot	Reboot immediately		
2	Disable	Disable the reboot settings		
		Set the daily reboot time		
3	Daily Reboot	Remark> Please go to Setting - Time to complete the S		
		server synchronization to set daily reboot		
4	Timing Reboot	Set the timing reboot time		

5.3.16 About

	A	bout		
	 Live View Add / Edit Users Settings Configuration Video Camera Picture Audio Network Date / Time Maintenance About 	Camera IDVG-B0701PFirmware VersionVCAX102Detail InformationVBX100_VBY101_VBU119_VBW126_VKA166_VBT106VABB02223VABB022235 Uptime19 min		
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 firmware version-related information		
4	Serial Number	Display the camera serial No.		
5	Uptime	Displaying the running time of the camera (the timing of standby continues; the time will be reset when the camera is rebooted or turned off)		



This chapter describes problems you may encounter while using VC-BC701P. 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 IEEE 802.3af hubs
2.	There is no image output from VC-BC701P	 Check the power supply or PoE supply functions. Confirm the output signals are in streaming output. If the camera is connected to a monitor, confirm the monitor equipment supports 4K output Replace the cables and make sure they are not faulty.
3.	VC-BC701P image is severely delayed	Please use 4K, 1080p or 720p 60/50 Hz signals rather than 25/30 Hz signals.
4.	RS-232 cannot be controlled	 Confirm the connection is correct (RS-232 Input / Output) Please make sure the Baud rate setting is the same as the control equipment
5.	Whether the Internet can be used for operation	Please refer to <u>Chapter 5 Network Function Description</u> for the Internet usage
6	The ONVIF software cannot find the machine	Please go to Setting - Video - Camera Location in the webpage and make sure that the ID is only made up of English letters or numbers. The ONVIF software cannot find the machine if you use special characters and space.
7	Tally light is not working when applying RS232 setting	Please go to Setting - Camera - Tally Light in the webpage to check if the function is on.



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

Manufacturer : Lumens Digital Optics Inc.

Product Name : VC-BC701P

Model Number : UHD Box 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.

