LC100 CaptureVision Station

User Manual - English



[Important]

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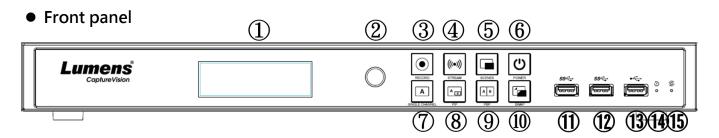


Chapter 1 Package Contents

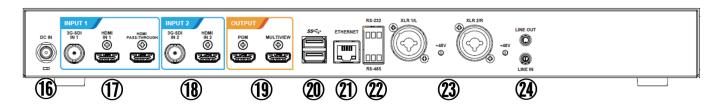
LC100	Power Adapter	Power Cord	3-PIN to 2-PIN connector
Laments S S S S S S S S S S S S S S S S S S S		Appearance may vary depending on country/ region	(For Japan only)
Quick Installation Guide	RS-232/RS-485 Connector (x2)	Mounting Metal Plate (x2)	Mounting sheet metal screws (M3 x 6 x 4)
Quick installation Guide			(†)111110 (†)111110 (†)111110
Cable holder-1	Cable holder-2	Hard drive cables	Hard drive locking screws (2.5" x 4/ 3.5" x 4)
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Chapter 2 Product Overview

The LC100 CaptureVision Station uses the Linux operating system and an ARM architecture processor to provide stable recording services. It supports video recording, mixing and switching from various input signal sources. It enables voice, image, and data in bidirectional transmission through the public network and support pre-scheduled recording and uploading. You can start recording automatically without being on site. LC100 is widely used in education, corporate meetings, government agencies, etc., for live or recorded environments.



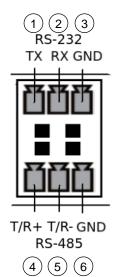
Rear panel



NO	Name	Function Descriptions	NO	Name	Function Descriptions
1.	LCM	Display Menu and Information	16	DC IN 12V	DC 12V power connector
2.	Knob	LCM knob			■ HDMI input 1
3	Record	Start/Stop recording Press and hold for 3 seconds: Pause Recording	17	Input1	■ 3G-SDI input 1 ■ HDMI Passthrough
4	Stream	On/Off image streaming	18	Input2	■ HDMI input 2 ■ 3G-SDI input 2
5	Scene	Switch templates			
6	Power	On/Off the device power Press and hold for 6 seconds: Force to reboot	19	Output	■ PGM: Main screen output, display the recording or streaming screen and layout
7	Single Channel	Display a single channel screen	19	9 Output	■ Multiview: Operation interface output; display the settings menu and image management
8	PIP	Switch to PIP (picture in picture)			
9	PBP	Switch to PBP (picture by picture)			Supporting the following devices:
10	SWAP	Switch CH1/CH2 signal channels	20	USB3.0 port	■ USB video/audio devices ■ External storage disk
11	USB 3.0 port	External storage disk			Keyboard/mouse deviceLC-RC01 (optional) USB connection
12	USB 3.0 port	External storage disk			- LO-IXOOT (Optional) OSB connection
13	USB 2.0 port	External storage disk	21	Ethernet	Can connect to a router or hub
14	Factory Reset	Reset all configurations to factory default settings	22	RS-232/ RS-485 port	Connect to AV control equipment
15	Restart	Reboot the machine	23	XLR audio in	Connect to a microphone or audio mixer
	·		24	Line In/Out	Audio In/Out



2.1 RS-232/RS-485 I/O pin description



■ RS-232

Pin NO.	Function
1	TX+
2	RX-
3	GND

■ RS-485

Pin NO.	Function
4	T/R+
5	T/R -
6	GND

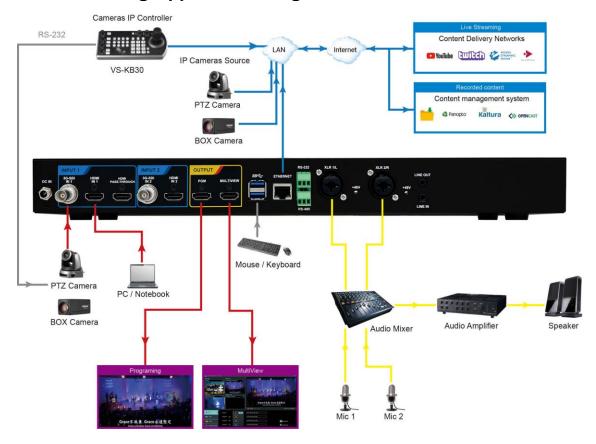


Chapter 3 Instruction for installation

3.1 Product connection diagram



3.2 Live Streaming Application Diagram





Chapter 4 Function Description

4.1 LCM Screen

4.1.1 Setting Menu

4.1.1 Setting			
1st Level Major Items	2nd Level Minor Items	3rd Level Adjustment Values	Function Descriptions
Information	IP/ FW/ Mode/ SN/ MAC		Display the current system information
		1. HDMI1 or HDMI2	
		2. SDI1 or SDI2	
Video Source	Ch 1/ CH2	3. Source Name 5	Select the video source of
video Source	CII I/ CH2	4. Source Name 6	CH1/CH2
		5. Source Name 7	
		6. Source Name 8	
	PGM Audio Level		Display PGM volume level
Audio Level	PGM Volume	0~125	Set PGM volume
	PGM Mute	Mute/ UnMute	Set PGM Mute on/off
		Full HD 60/ 50FPS 6Mbps	
		Full HD 30/ 25FPS 4Mbps	
		Full HD 30/ 25FPS 3Mbps	
	RC(Record)	HD 30/ 25FPS 2Mbps	Set up the recording encoded
		HD 30/ 25FPS 1.5Mbps	format
Mode Settings		SD 30/ 25FPS 800Kbps	
wode Settings		SD 30/ 25FPS 500Kbps	
		User Defined	
		Full HD 4/ 3Mbps	
	ST(Stream)	HD 2/ 1.5Mbps	Set the streaming encoded
		SD 800/ 500Kbps	format
		User Defined	
	IP Assignment	DHCP/ Static IP	Set dynamic/static host
	IP	192.168.100.150	IP address
	SM	255.255.255.0	Subnet Mask
	GW	192.168.100.254	Gateway
IP Configuration	DNS1	192.168.1.211	Domain name 1
	DNS2	192.168.1.212	Domain name 2
			Click Edit to modify the relevant
	Edit	Edit/ Save	IP settings, and then click Save
			to save the settings
Storage	System Storage		Shows USB or SATA based on
Jiorago	System Storage		the storage location



1st Level Major Items	2nd Level Minor Items	3rd Level Adjustment Values	Function Descriptions
	Domaining anges		Shows the remaining space and
	Remaining space		total space

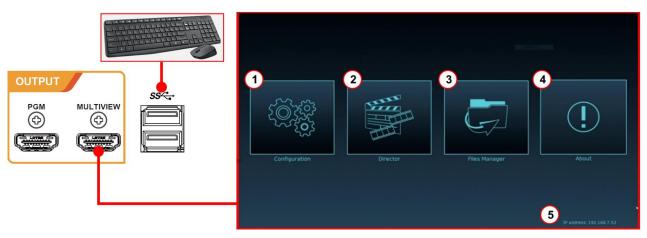
4.1.2 Message Description

Item	Message	Description
1.	USB Disk Insert	USB flash drive or USB HD is inserted into LC100
2.	USB Disk Remove	USB flash drive or USB HD is removed from LC100
3.	No Storage	There is no HDD or USB disk when recording
4.	No Enough Storage	There is no enough recording space when the recording is activated
5.	Record Error	Recording failure or abnormality when the recording is activated
6.	Update Firmware	FW updating
7.	Front panel lock	Front panel lock is on

4.2 Real-time operation menu

Connect the HDMI1 MultiView output to the display panel to show the real-time operation menu

Connect the keyboard/mouse through the USB port and use the keyboard/mouse to select the menu settings



No	lcon	Name	Function Descriptions
1		Parameter setting	Perform the system network setting, recording/streaming encoded setting
2		Casting management	Input signal source selection, audio management, recording/streaming control, output version selection, and network video camera control
3	G	File management	Conduct the video file content management, including the following functions: Upload, download, delete, replay video files
4	(İ)	About	Display the current firmware version and relevant production information of LC100
5	NA	Device IP	When connecting to the router, the current assigned device IP address will be displayed



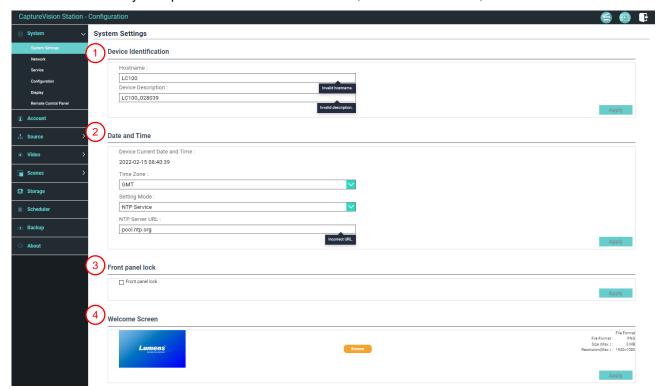
4.3 Parameter setting

This Section provides descriptions of the web-based interface to control the display items. HDMI MultiView only provides items of [System Settings] and [Video Settings].

4.3.1 System Settings

4.3.1.1System Settings

You may set up the device's basic information, initial date and time, and others here.



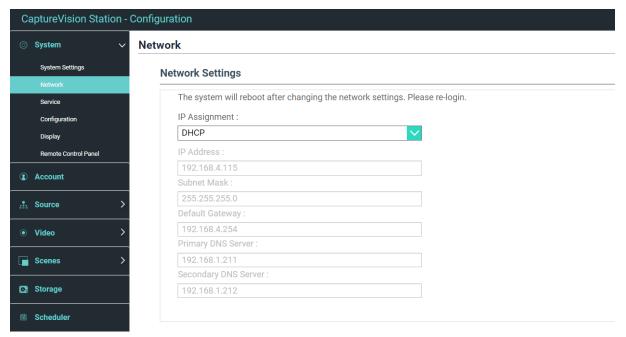
No	Item	Function Descriptions
1	Device	Defines the device name and device description for LC100
•	Identification	<remark> Display name only accepts English characters and numbers</remark>
		LC100 supports different time zone setting. It can synchronize time with NTP service (default) and manual setup
2	Date & Time	■ Time Zone: Select the correct time zone according to current location
_	Date & Time	■ Configuration Mode:
		NTP service: Synchronizes time with a network server
		Manual Setup: Sets time manually
3	Front Panel Lock	After checking the box, no action will be triggered when any front panel
	T TOTIL FAITE LOCK	button is pressed
		You can customize a welcome image for LC100
		1 Click [Browse] and select a file to upload. Once done, a thumbnail will be
		generated
		File format:
4	Welcome Image	File format: PNG
		➤ File Size (Max.): 3 MB
		Resolution Size (Max.): 1920 x 1080
		Click [Apply] to save this change. If you need to select another file, click
		[Cancel] and reselect a file



5	Intermission Image	You can customize an intermission image for LC100 1 Click [Browse] and select a file to upload. Once done, a thumbnail will be generated File format: ➤ File format: PNG ➤ File Size (Max.): 3 MB ➤ Resolution Size (Max.): 1920 x 1080 2 Click [Apply] to save this change. If you need to select another file, click [Cancel] and reselect a file
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4.3.1.2Network

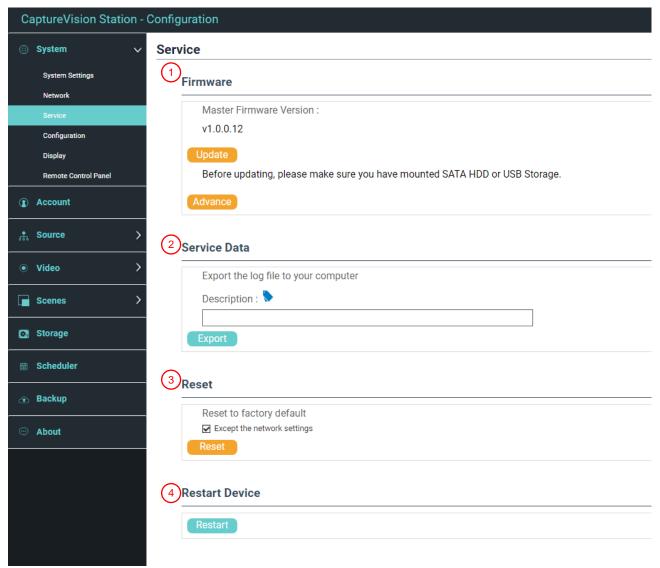
The factory setting of LC100 is DHCP. The IP address is assigned by the router. If you want to use a static IP address, please configure the connection here.



No	Item	Function Descriptions
1	Ethernet Setting	 DHCP: Dynamic IP address as default Static IP: Configure static IP address according to the network and manually enter network information Select and fill in required network setting information and click [Apply] to save the settings Caution>The system will restart after changing network setting. Please connect and log in again



4.3.1.3Services

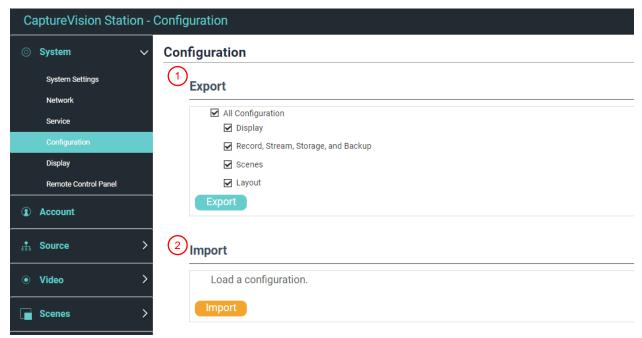


No	Item	Function Descriptions	
	Main Firmware	Main firmware information and update	
1		Update Select the master firmware file you want to update, and then click	
'	Main Filliwale	[Apply] to update it	
		Advance Engineering mode, for Lumens engineers only	
	Service History	Saves system log files to user's computer	
		1 Enter file name	
2		Click [Export] to export system log files	
		<remark> The length of file name must be between 0 ~ 16 characters.</remark>	
		{}()'&@~^\$%" ,`:?<>*√#; symbols, and space are forbidden	
_	Reset	Restores LC100 to factory reset	
3		<remark> Check [Keep Network Settings] and the network settings will be remained</remark>	
1	Restart the	Restart the LC100	
4	device	Restait the LC 100	



4.3.1.4Setting File

You can export the configuration files of the device to a computer, and import the configuration files to another device to apply the same configuration.



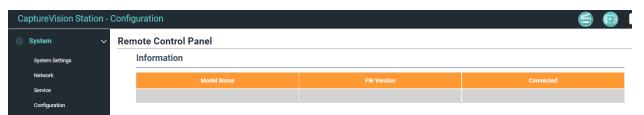
No	Item	Function Descriptions
1	Export	Exports the current configuration of LC100 as a configuration file
2	Import	Imports the exported configuration files from a LC100 to another LC100

4.3.1.5 Display Settings



No	Item	Function Descriptions
1	Output Resolution	Select LC100 HDMI output: 50Hz/60Hz

4.3.1.6Extension control panel

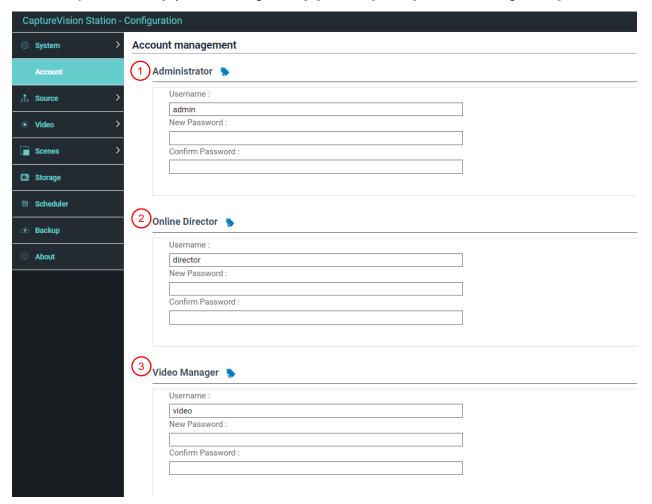


No	Item	Function Descriptions
1	Extension control panel	Display the connection information of LC-RC01 extension control panel (optional). When there is no connection, the blank appears on the information field



4.3.2 Account

You can manage accounts for 3 kinds of user mode here: modify the user name and password to [System Management], [Director], and [Content Management].



No	Item	Username/Password	Function Descriptions
1	System Management	admin / admin	Sets up the permission of main system management
2	Online Director	director / director	Manages playback and changes simple basic image settings and the permission of Director
3	Content Management	video / video	Views the permission of file storage and playback

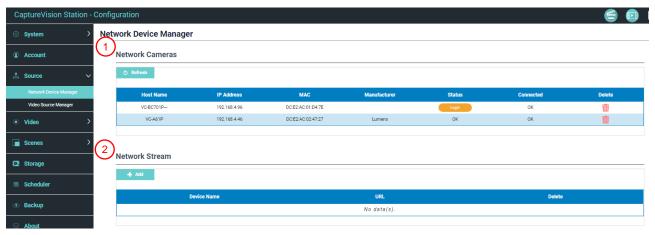
[Caution]

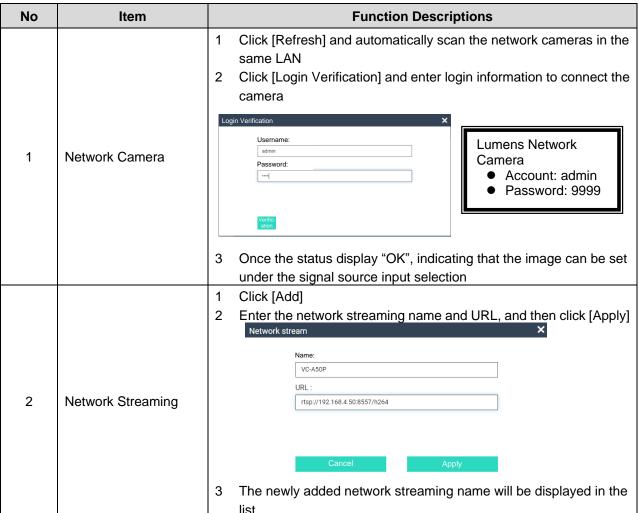
- The length of user name must be between 4 ~ 16 characters. {}()'&@~^\$%"|,`:?<>*\/#; symbols, and space are forbidden
- The length of password must be between 8 ~ 16 characters. {}()'~^"|,`:?<>*V; symbols, and space are forbidden
- · Duplicate username is forbidden



4.3.3 Video Source

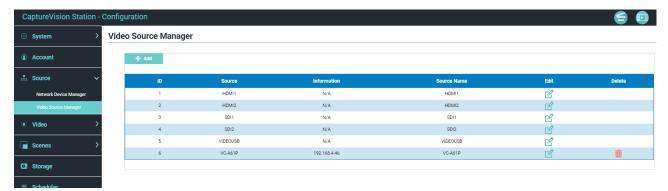
4.3.3.1 Network Device Management







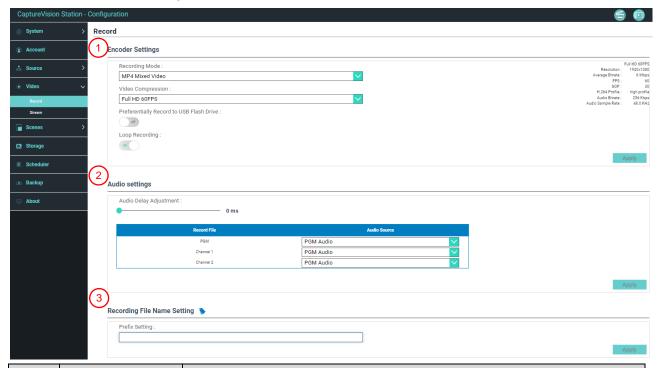
4.3.3.2 Video communication source management



No	Item	Function Descriptions	
1	Video communication source management	Display the video communication source information for users to edit the source name and order <caution>ID1-4 are fixed as HDMI 1 / HDMI 2 / SDI 1 / SDI 2 (not removable) <remark> Source name supports 2 ~ 16 characters, and can have the English letter/number/blank/underline/- entered</remark></caution>	

4.3.4 Video Settings

4.3.4.1Record Settings



No	Item	Function Descriptions
1	Encoder Settings	 Recording Mode: You can select Movie Mode (MP4) and Movie/Resource Mode (MP4) Movie Mode: Only record the single PGM 2-channel composite screen Resource Mode: Can record the single PGM 2-channel composite screen and 2 signal source screens Encode Profile: Default recording encoded formats are available to be selected by resolutions and average bitrates (Please refer to the Instruction on Encode Profile). You can also set user-defined image quality. Preferentially record to front USB hard drive: Videos or pictures will be preferentially recorded to the USB flash drive which has already been



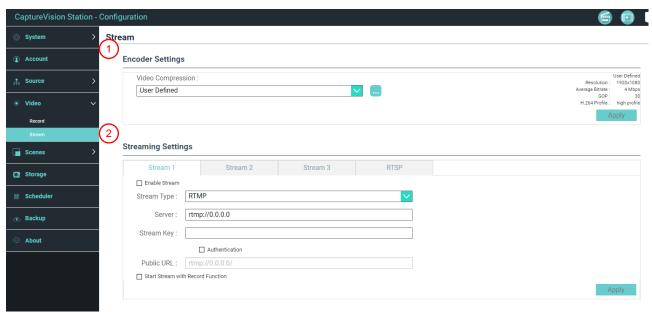
		 connected to the front and rear USB port Cycling Record: Enabling the cycle record function can prevent recording error when storage device is full
2	Audio Settings	 Audio Delay Adjustment: 0 ~ 600 ms Audio source: Set the audio source for Channel recording files Remark> The selection of non PGM Audio may increase CPU loading. Users may check out CPU information on the Director page of real-time operation menu under MultiView.
3	Video File Name Setting	Customizes the prefix name of video file

Instruction on Encode Profile

Name	Video Resolution/ABR	Description
Full HD	1080p / 4 - 6 Mbps	Dynamic scene; Large film site; Local drive recording
Internet Full HD	1080p / 3 Mbps	General scene, Medium film site, Local drive recording
HD	720p / 2 Mbps	Static scene, Small film site, Local drive recording
Internet HD	720p / 1.5 Mbps	Suitable for online live-stream
SD	480p / 800 kbps	Static scene, suitable for online live-stream
Mobile network SD	480p / 500 kbps	You can watch the LC100 live-stream screen on a mobile device.
User-Defined	Click to open User-Defined. Once done, click "Save".	

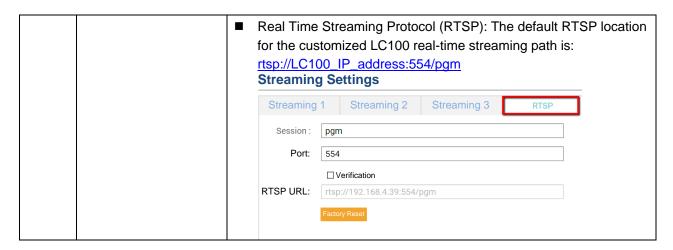
4.3.4.2Streaming Settings

You may change the streaming settings here. Related settings must follow the streaming protocol and the settings recommended by server system support.



No	Item	Function Descriptions	
1	Encoder Settings	Encode Profile: Default recording encoded formats are available to be selected by resolutions and average bitrates (Please refer to 4.2.4.1 Record Settings the Instruction on Encode Profile). You can also set user-defined image quality.	
2	Streaming Settings	Streaming 1 / Streaming 2 / Streaming 3: You can customize 3 push addresses of network streaming Supported streaming type: RTMP / RTMPS / RTP / YouTube / YouTube_Gaming / Facebook Live / Twitch / SRT	

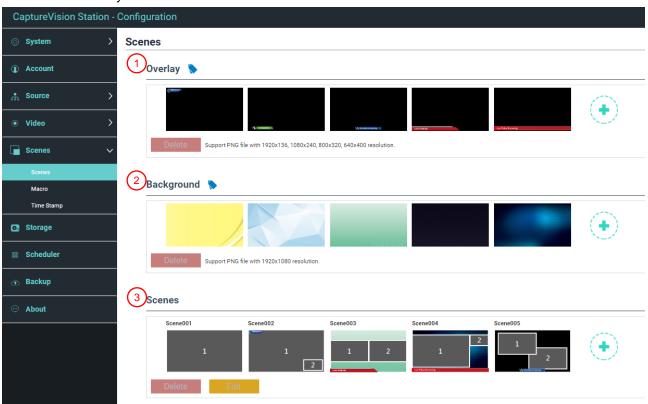




4.3.5 Scene

4.3.5.1Scene

LC100 provides 5 overlay styles, 5 background images, and 5 scenes. You can also add your own styles.



No	Item	Function Descriptions
1	Overlay	For overlay style setting, you can adjust the order by dragging the mouse left and right. Users can upload their own files for application. Click [•] and select a desired file from the window. Check the preview image and file name, and click [Apply] to start uploading and applying this overlay style. Click [Delete] to cancel the upload. Supports 30 groups of overlay styles File format: PNG format PNG format Supported size: (a) 1920 x 136 (b) 1080 x 240 (c) 800 x 320 (d) 640 x 400

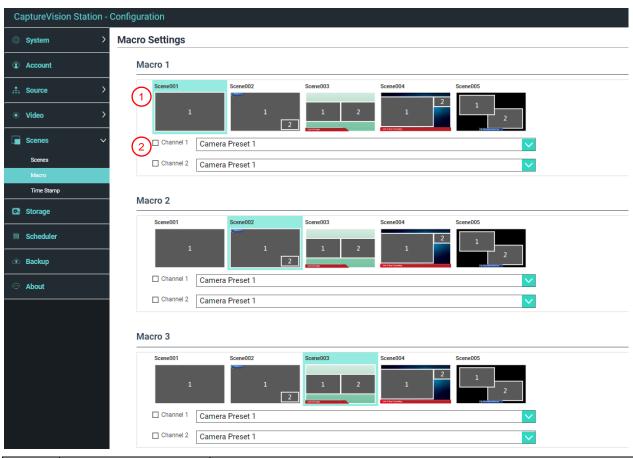


2	Background Image	For background image setting, you can adjust the order by dragging the mouse left and right. Users can upload their own files for application. Click [•] and select a desired file from the window. Check the preview image and file name, and click [Apply] to start uploading and applying this background image. Click [Delete] to cancel the upload. Supports 9 groups of background images File format: PNG format Supported size: 1920 x 1080
3	Scene	Scene is the integration of "Overlay," "Background Image," and "Production Layout," which provides the scene made of different background images, layout, and overlay style. You can customize the layout content in 30 scenes. Click [•] to open scene settings. Enter the scene name and select the required overlay, layout, and background image. Once done, click "Apply".

4.3.5.2Macro

Use together with LC-RC01 extended control panel (optional) to set scene/preset position setting, camera start and stop tracking.

Macro [1 \sim 3] settings correspond to [1 \sim 3] keys on the extension control panel

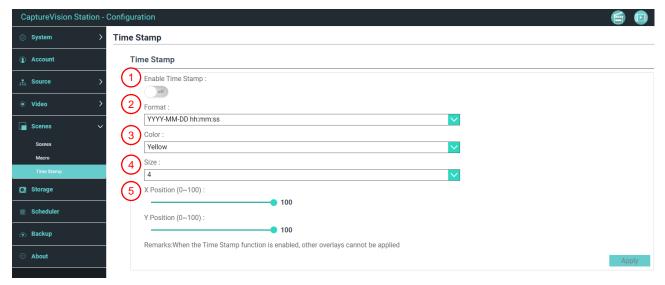


No	Item	Function Descriptions	
1	Scene Selection	Select a scene to be set. Each supports up to 30 sets of scene If the overlay style of the scene needs to be change, please refer to	
2	Camera Preset	Supports 9 groups of preset position setting, camera start and stop	



Position Setting	tracking	
	<remark> After checking the box, the Marco will proceed the setting</remark>	
	of the network camera on Channel 1 ~ 2.	

4.3.5.3Time Stamp

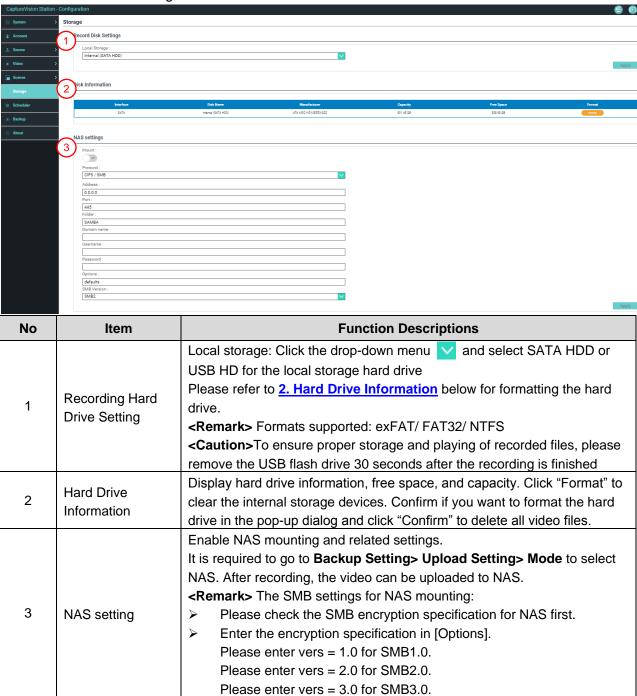


No	Item	Function Descriptions		
4	Fachla Time Otama	Turn on/off Time Stamp		
1	Enable Time Stamp	Remark> When the Time Stamp function is enabled, other overlays cannot be applied		
2	Format	Time display format		
3	Color	Color setting		
4	Size	Font size setting		
		X: Time Stamp display position (left and right) in the PGM screen		
5	X / Y Position (0 ~ 100)	0: The leftmost / 100: The rightmost		
		Y: Time Stamp display position (up and down) in the PGM screen		
		0: Top / 100: Bottom		



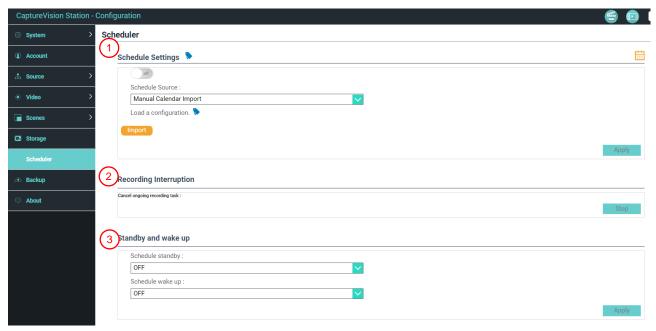
4.3.6 Storage Settings

You can set up recording storage, cycle recording, and display hard drive information and NAS setting here.





4.3.7 Schedule Setting

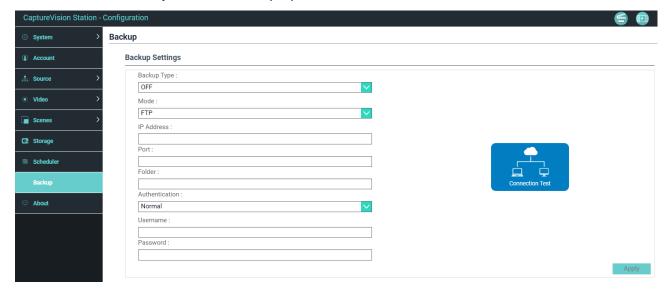


No	Item	Function Descriptions		
1	Schedule Setting	 Click [On/Off]		
2	Cancel Recording	Click [Stop] to stop the current scheduled recording		
3	Stand by and Wake up	Enable/disable the scheduled standby and wake-up functions. Set the scheduled time after the functions are enabled		



4.3.8 Backup Setting

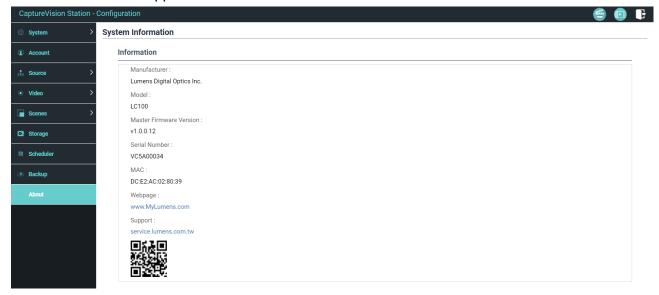
LC100 provides auto backup service which can upload videos to a designated space automatically. You can set up upload destination and test the connection here.



No	Item	Function Descriptions		
1	Upload Setting	 ■ Auto upload: Disable / Upload right after recording completes / Upload periodically ■ Mode: FTP / NAS / SFTP / Kaltura / Panopto / Opencast HTTP / Opencast HTTPS <remark> Select NAS. Please go to Storage Settings > NAS Setting to enable mounting and related settings.</remark> ■ Connection Test: Click [Connection Test] to test if a connection can be created with the current setting <remark> Please refer to the videos of How to series on Lumens™ YouTube channel for related application settings</remark> 		

4.3.9 About

LC100 Device-related Information: Firmware version, device serial number, and technical support link



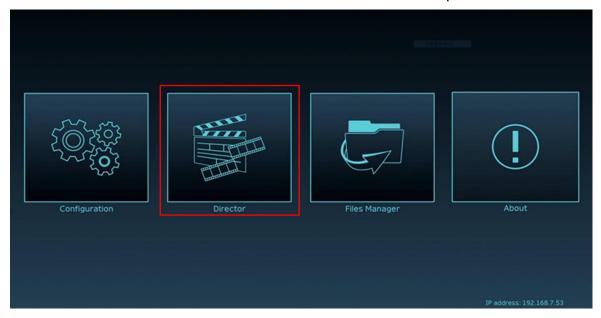


4.4 Online Director

LC100 is built in Director, which allows you to monitor recording and preview the output video from streaming director.

Three login methods below are available:

■ Select online Director from the HDMI1 MultiView real-time operation menu

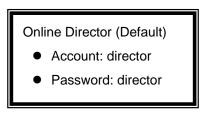


■ When login the web page, select the online Director icon at the upper right corner on the parameter setting page



■ When login the web page, use the online Director authority account.







Online Director related feature description as below:



No	Item	Function Descriptions	
1	Channel Signal Source Selection	Drop down to select the image signal source	
2	REC Record Setting	Start or stop recording; also select whether to synchronously stream or not	
3	Audio Source Management	Manage the input and output audio sources; adjust the audio recording volume	
4	Scenes Layout Setting	Fast select the required production layout, or customize the background and scene style	
5	Camera Control	Provide IP video camera/ PTZ control	
6	Main Screen Output	Displays the program out video	
7	Recording Progress Bar	Displays current streaming /recording status and hard disk capacity <remark> Please refer to 4.4.1 Status Icon Description for details</remark>	

4.4.1 Icon Description of Status Display Bar

4.4.1 10011 200011	Off	On	Error	
Network		8		
Record			•	
Streaming 1 / 2 / 3	((1))	((1))	((1)))	
	Off	On	Fail to write in	Storage is full
Hard Drive (SATA HDD)		SATA	SATA	0



Hard Drive (USB)		USB	USB (8	0
USB Device	ψ	ψ	48	40
	Operation Invalid	Snapshot Fail		
Others	0	O ₀		

4.4.2 REC Record Setting



No	Item	Function Descriptions	
1	Recording while Push	After checking the box, press recording button to start push and recording function	
2	Enable/Stop/Pause Recording	■: Enable/Stop Recording■: Pause/Keep Recording	
3	Single-channel Push Button	Push right away without starting recording function	
4	Index	Timestamp can be added after the recording starts	
5	Live image	Switch to live image	
6	Intermission screen	Switch to intermission screen	
7	Photo Capture	Capture a photo	

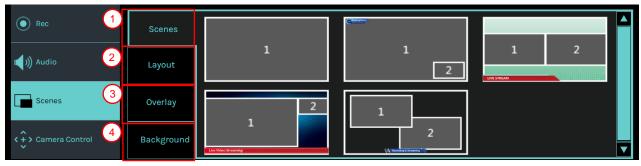
4.4.3 Audio Source Management



No	Item	Function Descriptions	
1	Volume Control	Adjust the volume of audio input	
2	Audio Volume scale	Display current audio volume scale	
3	Mute button	Mute audio output	
4	Audio Source Setting	Select an audio source	

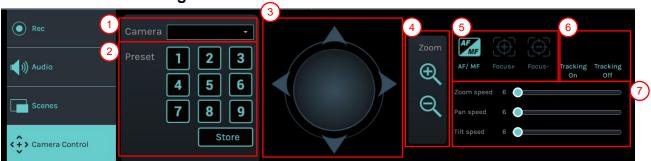


4.4.4 Scenes



No	Item	Function Descriptions		
1	Scenes	Scenes page is the integration of "Overlay," "Background Image," and "Recording Layout," which can perform a series of scene change according to your needs.		
2	Layout	Apply a different layout to highlight the screen focus of different channels. Click the layout style to apply.		
3	Overlay	Select a desired style to apply		
4	Background	Display the background images supported by "Director" system. Click the thumbnail to apply		

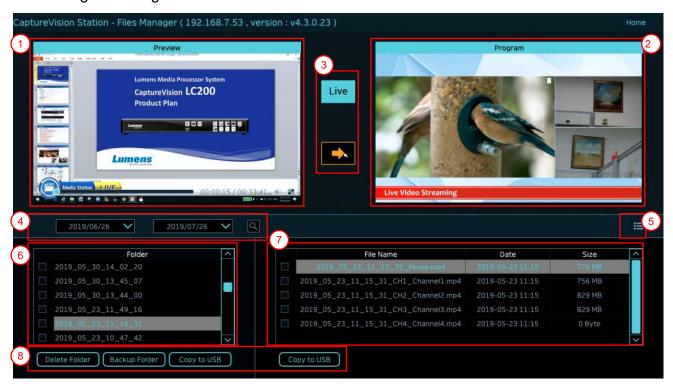
4.4.5 Camera Setting



No	Item	Function Descriptions		
1	Camera	Select a desired camera to control		
2	Preset Setting and Call	Click number buttons to perform preset setting and calls		
		Move the center point to control the shooting direction		
3	Direction Control Panel	<remark> Web pages do not support trackball controls. Please use</remark>		
		arrow buttons to adjust the screen direction.		
4	Zoom In/Zoom Out	Zooms in/out the lens		
5	Focus Setting	Set up auto or manual focus		
6	Tracking Setting	Set the tracking function on/off		
		<remark> Only tracking camera is supported.</remark>		
7	PTZ Speed Setting	Set up the moving speed of Pan Tilt Zoom		

4.5 File management

LC100 provides file management feature which can perform the following functions via the file management interface: Upload, download, delete, replay video files and editing recording information.

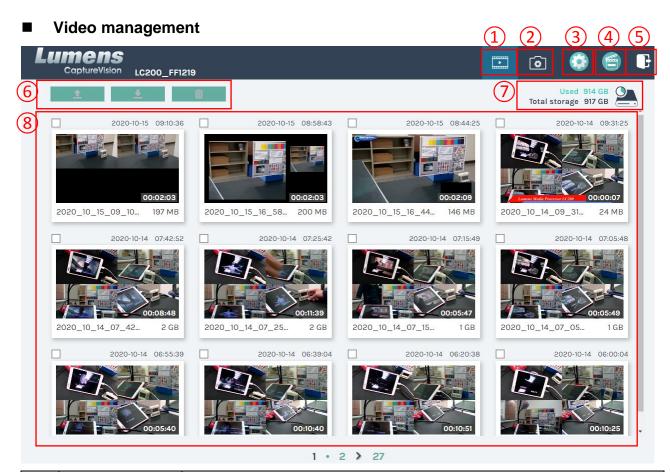


No	Item	Function Descriptions
1	Preview screen	Click desired video files to play and control on the Preview screen
2	Program screen	Display the Director screen or switch to synchronize with the Preview screen
3	Screen Switch Button	Switch the Program screen to the LIVE Director screen or the Preview screen
4	Discovery	You can search recording video files by selecting date period on the calendar
5	Display Mode Switch	Video view mode. You can switch to thumbnail mode or list mode
6	Folder Display	Display the recording video folders
7	Video File Display	Display the files in the video folder
8	File management	Delete, backup or copy recording video to an external USB flash drive

4.5.1 Web Page Interface

The default page after accessing LC100 web page is system setting page. Click the video management icon on the top-right corner to access video management page.





No	Item	Function Descriptions
1	Video management	Click to access the video management page
2	Photo Management	Click to access the picture management page
3	System settings	Click to access the system setting page <note> Log in the web page with admin/admin to display system setting subpage If you log in the web page with video/video, you will not find the system setting subpage and you can only manage videos and photos</note>
4	Online Director	Click to enter the Online Director page
5	Logout	Click this icon to log out the web page interface
6	File management	Upload, download and delete the checked video files
7	Hard Drive Status Display	Display the used space and the capacity of the current hard drive
8	Video File Display	List information, including the file names of recording videos, thumbnails, capacity, and date



■ File Management Description

Uploading

Check the thumbnails of the videos to upload. Click [] and the videos will be uploaded to the location set in Upload Settings. Please refer to [System Management/Upload Settings] for related settings.

Upload Status Description:

Icon	Upload Status	Icon	Upload Status
13	Videos are uploaded successfully		Videos are queued for upload
1	Fail to upload videos	1	Videos are uploading

Downloading

Check the thumbnails of the videos to download. Click [] and the videos will be saved as MP4 video files and datasets.

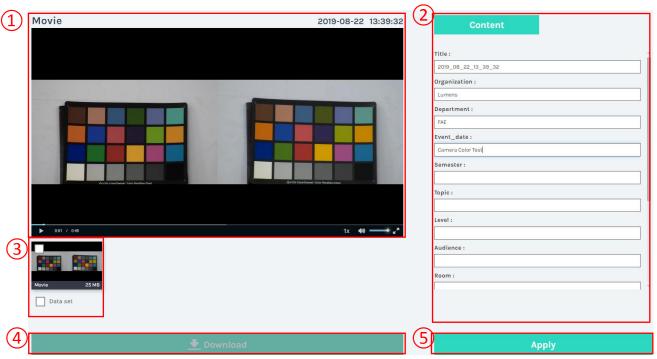
If only video files are needed, you can click the video thumbnails and access video playback page to download the video files only.

Delete

Check the thumbnails of the videos to delete. Click [iiii] and the video files will be deleted permanently.

Video Playback

Right-click video to preview the video, edit the related content data, and download the video file and dataset



No	Item	Function Descriptions
1	Video Control Window	Play back and control recording videos
2	Video Content	Edit and modify video content
3	Video File and Dataset	Select the video files or datasets to download

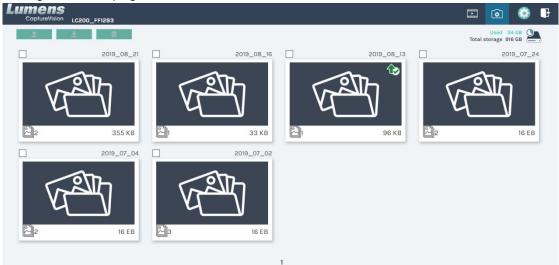


4	Download Button	Click this button to download the checked video files or datasets
5	Apply Button	After editing and modifying the video content, click this button to apply

■ Photo Management

You can manage the photo files captured by pressing SNAPSHOT. Folders will be named with the shooting date automatically; all photos shot in the same date will be stored in the same folder.

Just like Video Management, you can also upload, download, and delete photos in Photo Management subpage.





Chapter 5 Troubleshooting

This chapter describes problems you may encounter while using LC100. 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
2.	No image output	1. Check the power 2. Check if the input/output device cables are loose 3. Replace the cables and make sure they are not faulty 4. Make sure if the signal source connects to the device correctly 5. Confirm whether the machine is in standby mode. Tap LC100 Power button to wake the machine 6. LC100 cannot record video from a video output including HDCP format
3.	The panel buttons are not responding	Confirm [System Settings] > [System Settings] > [Front Panel Lock] function setting on the web page, and turn off (uncheck) the front panel lock to use the front panel operation
4.	LC100 cannot perform camera control after connecting to a camera	Please make sure the dial setting of Camera Address Selector is 0. LC100 cannot identify camera correctly if it is not 0
5.	You cannot log in the web page administration interface if you forget the password	If you forget the default password, please press the Reset button on the panel to restore the factory setting
6.	Webpage login failed	Confirm whether the machine is in standby mode. Tap LC100 Power button to wake the machine Please confirm whether the password is correct. If you forget your password, please refer to Troubleshooting #5
7.	LC100 cannot find the camera	 Please link to the web page of the camera to make sure that [Setting]> [Video]> [Camera ID]/[Camera Location] in the web page uses only English letters or numbers. LC100 cannot find the machine if you use special characters and space. When the LC100 is connected to a switch and the switch IGMP function is on, it will not be able to search for cameras in the local area network. Please disable the IGMP function first and then search for cameras again
8.	Recording to a USB storage device. The video file of the USB flash drive cannot be played normally	Confirm USB flash drive format. The supported formats are: exFAT/ FAT32/ NTFS Please use LC100 for formatting, please refer to <u>4.3.6</u> Storage Settings - Hard Drive Information To ensure proper storage and playing of recorded files, please remove the USB flash drive 30 seconds after the recording is finished



Chapter 6 Safety Instructions

Always follow these safety instructions when setting up and using the LC 100 CaptureVision Station:

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 Storage

- 2.1 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.
- 2.2 Unplug this product during thunderstorms or if it is not going to be used for an extended period.
- 2.3 Do not place this product or accessories on top of vibrating equipment or heated objects.

3 Cleaning

3.1 Disconnect all the cables prior to cleaning and wipe the surface with a dry cloth. Do not use alcohol or volatile solvents for cleaning.

4 Batteries (for products or accessories with batteries)

- 4.1 When replacing batteries, please only use similar or the same type of batteries
- 4.2 When disposing of batteries or products, please adhere to the relevant instructions in your country or region for disposing of batteries or products

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

■ BSMI Warning

Warning to users:

This is a Class A information technology product which may cause radio frequency interference when used in a residential environment, in which case the user will be required to take certain appropriate measures.



Addendum 1

■ Frequently used port No.

Port No.	Description
4025/TCD	Applicable for RTMP push to most platforms, such as YouTube, Vimeo, and
1935/TCP	Twitch
80/TCP	Applicable for RTMP push to Periscope
443/TCP	Applicable for RTMPS push to Facebook
1935/TCP	Applicable for RTMP push to LinkedIn
1936/TCP	
2935/TCP	Applicable for RTMPS push to LinkedIn
2396/TCP	
443/TCP (HTTPS)	Applicable for platforms with built-in HTTPS security authentication, such as
443/107 (111173)	YouTube, Facebook, Ustream, Livestream, and Twitch
53/UDP (DNS)	Applicable to services of changing DNS IP address



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

Manufacturer: Lumens Digital Optics Inc.

Product Name: LC100

Model Number : CaptureVision Station

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.

