Manuals+ — User Manuals Simplified.

Lumens®
Lumens LC300 Capture
Vision Station

Lumens LC300 Capture Vision Station User Manual

Contents

Lumens®

Lumens LC300 Capture Vision Station

LC300/LC300S CaptureVision Station User Manual

Version LCB021
To download the latest versions of the Quick Start Guide, multilingual user manual, software, driver, etc., please visit Lumens **https://www.MyLumens.com/support**

Copyright Information

Chapter 1: Safety Instructions

Operation

- Use the product in the recommended environment, away from water or heat sources.
- Do not place the product on an unstable surface.
- Clean the power plug before use and avoid using a multi-plug.
- Ensure ventilation slots are not blocked.
- Do not open or remove covers; refer servicing to licensed personnel.
- Unplug the product if power cords are damaged or if exposed to water.

Storage

- Avoid placing the product where the cord can be stepped on.
- Unplug during thunderstorms or if unused for extended periods.
- Do not place on vibrating equipment or heated objects.

Cleaning

- Disconnect cables before cleaning; use a dry cloth.

Batteries

- Use similar or the same type of batteries for replacement.
- Dispose of batteries according to local regulations.

FCC Warning

This equipment complies with FCC Class A digital device limits.

Chapter 2: Package Contents

- LC300/LC300S
- Power Adapter (DC 19V)
- Power Cord
- 3-PIN to 2-PIN Connector
- USB 3.0 Cable (2M) (Type B to Type A)
- RS-232 Connector (x2)
- Mounting Metal Plate (x2)
- M3 Metal Plate Screw (4×4)
- Cable Holder-1
- Cable Holder-2

Chapter 3: Product Appearance and Connection

Product Appearance

Front Panel

- Power
- USB 3.0 Port
- LCM Screen
- Knob
- Record
- Pause
- Stream
- Scenes
- Reset
- USB 3.0 Port

Rear Panel

- XLR Out
- Line In(1)
- Line Out(1)
- XLR In
- 3G-SDI
- HDMI In (4 CH)
- HDMI Loop Through
- RS-232 Port
- LAN
- WAN
- HDMI 1 Multi View
- HDMI 2 Program
- USB 2.0 Port
- USB 3.0 Port
- Line In(2)
- Line Out(2)
- DC IN 19V
- 12G-SDI In/Loop-through

Product Connection
Connect various inputs and outputs as per the device specifications.

RS-232 I/O Pin Description

RS-232 IN/OUT Function
TX+
RX-
GND

Chapter 4: Function Description

Real-Time Operation Menu
Connect HDMI Multi View output to display the real-time operation menu. Use a keyboard/mouse for menu settings.

Webpage Login Interface

No	Item	Function Descriptions
1	User Login Account	Enter user login account (default: admin)
2	User Password	Enter user password (default: admin)
3	Language	Support for multiple languages
4	Login	Log in to the administrator screen on the website

Parameter Setting

System Settings

- Device Identification: Define device name and description.
- Live Streaming: Preview real-time PGM screen.
- Date & Time: Set time zone and synchronization options.
- Front Panel Lock: Enable/disable front panel lock.
- Welcome Screen: Customize welcome image.

Network
Configure network settings for DHCP or static IP.

Services

- Firmware: Update main firmware.
- Service Data: Export system log files.
- Reset: Restore to factory settings.
- Restart Device: Restart the device.

Configuration
Export and import configuration files.

Display

Select HDMI output resolution.

Remote Control Panel

Display connection information for LC-RC01 remote control panel.

Account

Manage user accounts and permissions.

Source

Physical Video Source Manager

Edit HDMI signal source name and resolution.

USB Video Source

Add USB signal source devices.

- 4.3.3.3 Network Source ManagerManage network cameras and streams.

Video Channel Manager

Manage video channels and order.

Audio Source Manager

Search for USB audio source devices.

Video

Encoder Manager

Configure encoder settings.

Record Manager

Configure recording settings.

Stream Manager

Add and manage stream settings.

Scene

Manage overlay styles, background images, and scenes.

Macro

Configure macros for quick theme switching.

Storage

Set up recording storage and display hard drive information.

Schedule Setting

Manage schedule settings and server synchronization.

Backup

Set up auto backup services.

About

Display device-related information.

Chapter 5: Troubleshooting

No.	Problems	Solutions
1	Boot without power signal	Confirm power cord specification is DC 19V.
2	No image output	Check power, cables, and signal source connection.
3	Panel buttons not responding	Ensure system login is complete.
4	Camera control issues	Ensure Camera Address Selector is set to 0.
5	Forgot password	Press the Reset button on the front panel.
6	Webpage login failed	Check standby mode and password.
7	Cannot find camera	Ensure camera ID uses English letters/numbers and disable IGMP function.
8	Recording time limit	Maximum recording time is 12 hours.

Addendum 1

Frequently Used Port Numbers

Port No.	Description
1935/TCP	RTMP push to platforms like YouTube, Vimeo, Twitch
80/TCP	RTMP push to Periscope
443/TCP	RTMPS push to Facebook
1935/TCP, 1936/TCP	RTMP push to LinkedIn
2935/TCP, 2396/TCP	RTMPS push to LinkedIn
443/TCP (HTTPS)	Platforms with HTTPS security like YouTube, Facebook
53/UDP (DNS)	Services for changing DNS IP address

FAQ

1. **How do I update the firmware?**

   Go to Services in the system settings and click on Update.

2. **What should I do if the device doesn't power on?**

   Ensure the power cord is connected and the specification is DC 19V.

3. **How can I reset my password?**

   Press the Reset button on the front panel for 3 seconds.

4. **How do I configure network settings?**

   Access Network settings under System Settings to configure DHCP or static IP.

5. **What is the maximum recording time?**

   The maximum recording time supported is 12 hours.

[Important]

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

Copyright Information

- Copyrights © Lumens Digital Optics Inc. All rights reserved.
- Lumens is a trademark that is currently being registered by Lumens Digital Optics Inc.
- Copying, reproducing or transmitting this file is not allowed if a license is not provided by Lumens Digital Optics Inc. unless copying this file is for the purpose of backup after purchasing this product.
- In order to keep improving the product, the information in this file is subject to change without prior notice.
- To fully explain or describe how this product should be used, this manual may refer to names of other products or companies without any intention of infringement.
- Disclaimer of warranties: Lumens Digital Optics Inc. is neither responsible for any possible technological, editorial errors or omissions, nor responsible for any incidental or related damages arising from providing this file, using, or operating this product.

Chapter 1 Safety Instructions

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

1. Operation
   1. Please use the product in the recommended operating environment, away from water or source of heat
   2. Do not place the product on a tilted or unstable trolley, stand or table.
   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.
   4. Do not block the slots and openings in the case of the product. They provide ventilation and prevent the product from overheating.
   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.
   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
   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. Unplug this product during thunders torms or if it is not going to be used for an extended period.
   3. Do not place this product or accessories on top of vibrating equipment or heated objects.
3. Cleaning
   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 with batteries) ⚡

    1. When replacing batteries, please only use similar or the same type of batteries

    2. When disposing of batteries or products, please adhere to the relevant instructions in your country or region for disposing of batteries or products

Warning
The following situations must be avoided:

- Replace batteries that may affect the security protection due to errors in their form;
- Throwing batteries into flames or ovens, or subjecting batteries to mechanical squeezing or cutting that may cause an explosion;
- Place the battery in a high-temperature environment that may cause explosion or leakage of flammable liquids or gases;
- The battery is subjected to extremely low air pressure that may cause explosion or leakage of flammable liquid or gas.
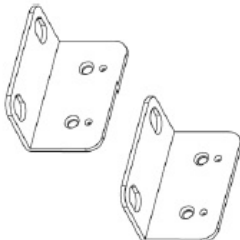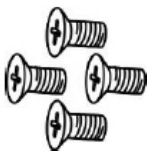
FCC Warning
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the
FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

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.
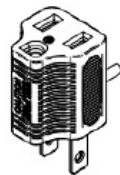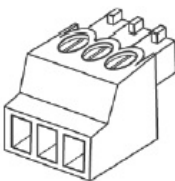
IC Warning

- 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 Ca nada.
- 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 peration 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 (label displayed on the bottom of the Warning: To av oid electromagnetic interference, this product should not be installed or used in residential environments

Chapter 2 Package Contents

LC300/LC300S	Power Adapter (DC 19V)	Power Cord	3-PIN to 2-PIN Connector
		Appearance may vary depending on country/region	(For Japan only)

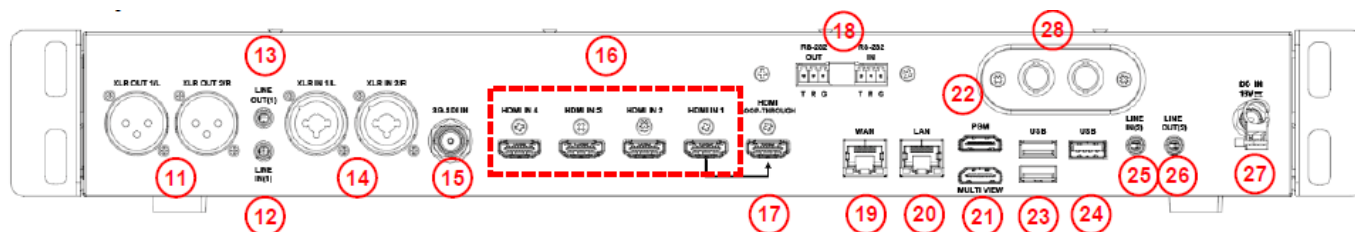| USB 3.0 Cable (2M) (Type B to Type A)	RS-232 Connector (x2)	Mounting Metal Plate (x2)	M3 Metal Plate Screw (4x4)

Cable Holder-1	Cable Holder-2

Chapter 3 Product Appearance and Connection

Product Appearance

- Front panel
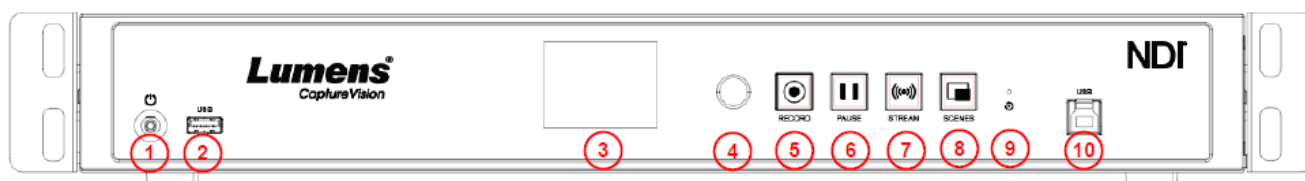
- Rear panel

NOTE 12G-SDI is only applicable to LC300S

No	Name	Function Descriptions
1	Power	On/Off the device
2	USB3.0 Port	Can connect keyboard/mouse/USB flash drive/USB camera
3	LCM Screen	Display PGM screen / LCM menu / prompt message
4	Knob	Left/Right rotation: Adjust parameters and navigate the menu Press: Perform "confirm" action
5	Record	Start/Stop recording
6	Pause	Start/Pause recording
7	Stream	On/Off image streaming
8	Scenes	Switch the theme scene to the PGM screen. If there are multiple scenes, switch them in order
9	Reset	Reset the device (long press for 3 seconds to trigger it)
10	USB3.0 Port	Connect the computer to convert PGM audio and video into USB signal f or use with video software § Video/Audio source name: Lumens LC300(S) Processor
11	XLR Out	Balanced line output
12	Line In(1)	Line In audio source input
13	Line Out(1)	PGM audio output
14	XLR In	Balanced line input
15	3G-SDI	3G-SDI signal source input
16	HDMI In (4 CH)	HDMI signal source input § HDMI 1 supports 4K resolution
17	HDMI Loop Through	Output HDMI 1 video screen
18	RS-232 Port	IN: Control the device through RS-232 OUT: Control the camera through RS-232
19	LAN	Connect to LAN, support searching for network cameras

20	WAN	Connect to WAN
21	HDMI 1 Multi View	Operation interface output; display the settings menu and image management
22	HDMI 2 Program	Main screen output, display the recording or streaming screen and layout
23	USB 2.0 Port	Can connect keyboard/mouse/USB flash drive/USB camera/LC-RC01 remote control panel
24	USB 3.0 Port	
25	Line In(2)	Line In audio source input
26	Line Out(2)	Multi View audio output
27	DC IN 19V	DC 19V power connector
28	12G-SDI In/ 12G-SDI Loop-through	For LC300S only 12G-SDI signal source output/input

Product Connection

*12G-SDI is only applicable to LC300S
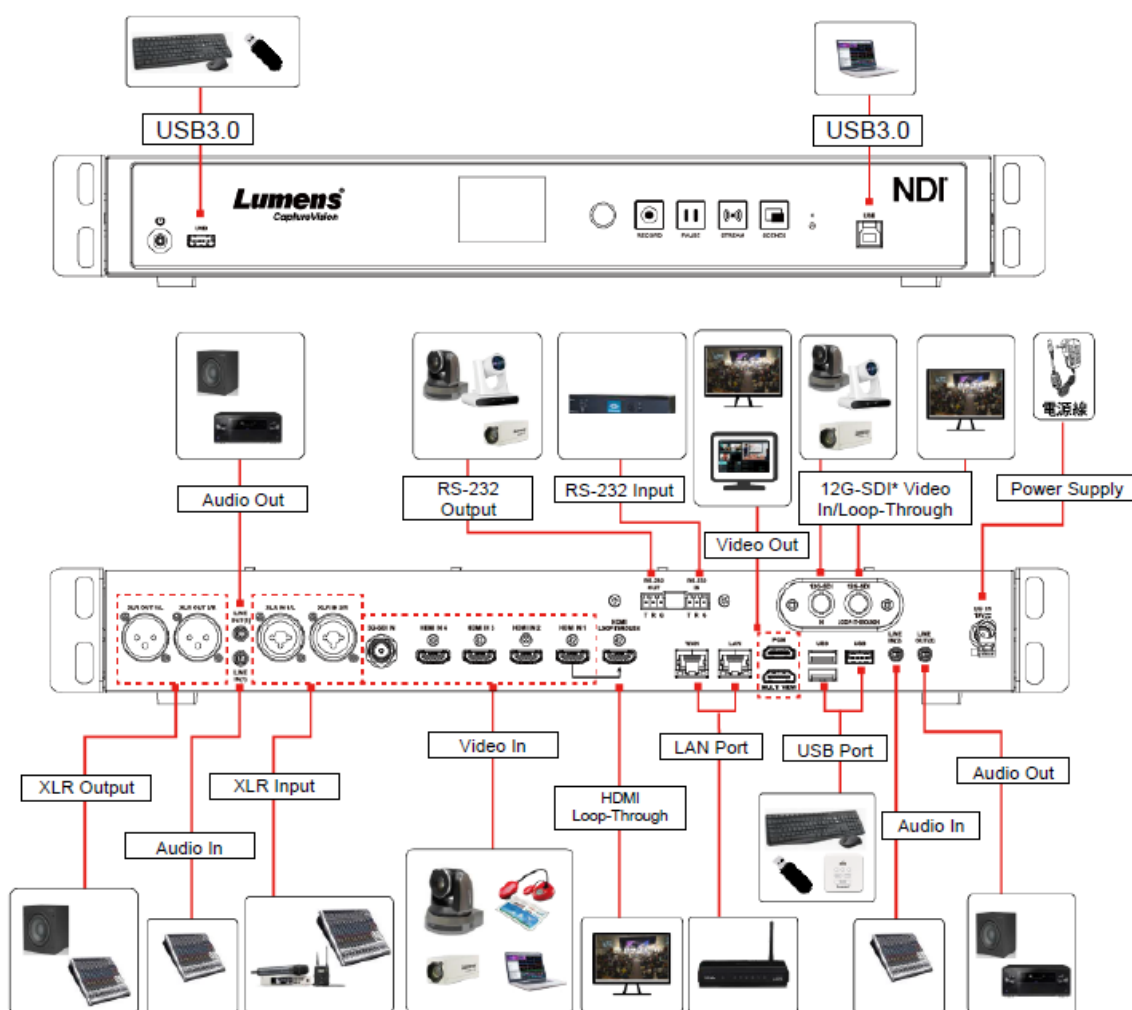
RS-232 I/O Pin Description
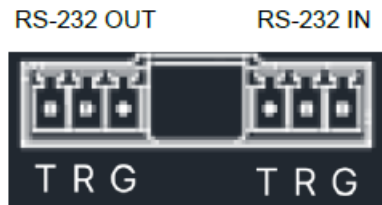
Function
TX+
RX-
GND

Chapter 4 Function Description

Real-Time Operation Menu

Connect the HDMI Multi View 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	Icon	Name	Function Descriptions
1		Configuration	Perform the system network setting, recording/streaming encoded setting
2		Director management	Input signal source selection, audio source management, recording/streaming control, output version selection, and network video camera control
3		File management	Conduct the video file content management, including the following functions: upload, download, delete, replay video files
4		About	Display the current firmware version and relevant production information of device
5	NA	Device IP	When WAN connects to the router, the current assigned device IP address will be displayed

Webpage Login Interface
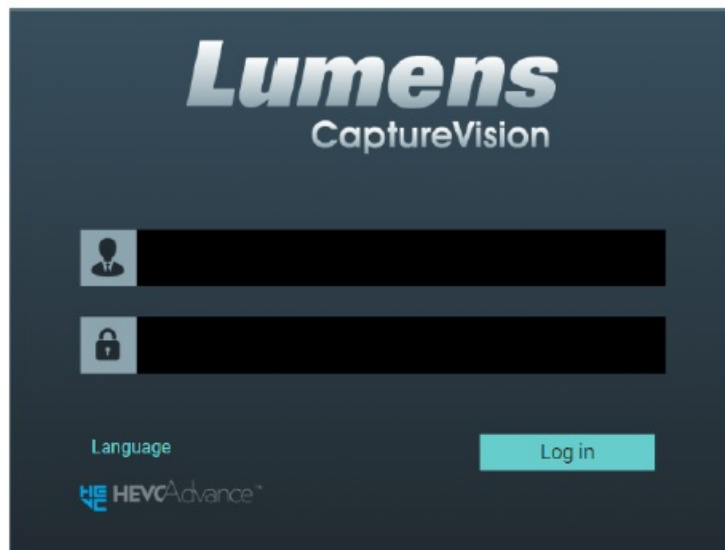
No	Item	Function Descriptions
1	User Login Account	Enter user login account (default: admin)
2	User Password	Enter user password (default: admin) § For a first-time login, please refer to **4.2.1 Account** to change the default password
3	Language	Supporting English/Traditional Chinese/Simplified Chinese
4	Login	Log in to the administrator screen on the website

Parameter Setting

This Section provides descriptions of the web-based interface to control the display items. HDMI Multi View only provides item settings of [System Settings] > [Internet].

System Settings

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

No	Item	Function Descriptions
1	Device Identification	Defines the device name and device description **NOTE** Display name only accepts English characters and numbers

2	Live Streaming	Preview real-time PGM screen
3	Date & Time	Supports different time zone setting. It can synchronize time with NTP service (default) and manual setup • Time Zone: Select the correct time zone according to current location • Configuration Mode: • NTP service: Synchronizes time with a network server • Manual Setup: Sets time manually
4	Front Panel Lock	Select to enable Front Panel Lock • After rebooting the device, it will remain locked. • To disable this function, please log in to the web page to uncheck this item

5	Welcome Screen	You can customize a welcome image for device
		
		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 afile

Network

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

CaptureVision Station - Configuration

System ∨
- System Settings
- Network
- Service
- Configuration
- Display
- Remote Control Panel

Account

Source ›

Audio ›

Video ›

Scenes ›

Storage

Scheduler

Backup

About

Network

WAN Settings

The system will reboot after changing the network settings. Please re-login.

IP Assignment :
DHCP

IP Address :
192.168.4.57

Subnet Mask :
255.255.255.0

Default Gateway :
192.168.4.254

Primary DNS Server :
192.168.1.211

Secondary DNS Server :
192.168.1.212

Apply

LAN Settings

The system will reboot after changing the network settings. Please re-login.

IP Assignment :
DHCP

IP Address :

Subnet Mask :

Default Gateway :

Primary DNS Server :
undefined

Secondary DNS Server :

Apply

Function Descriptions

- 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
- The system will restart after changing network setting. Please connect and log in again

Services
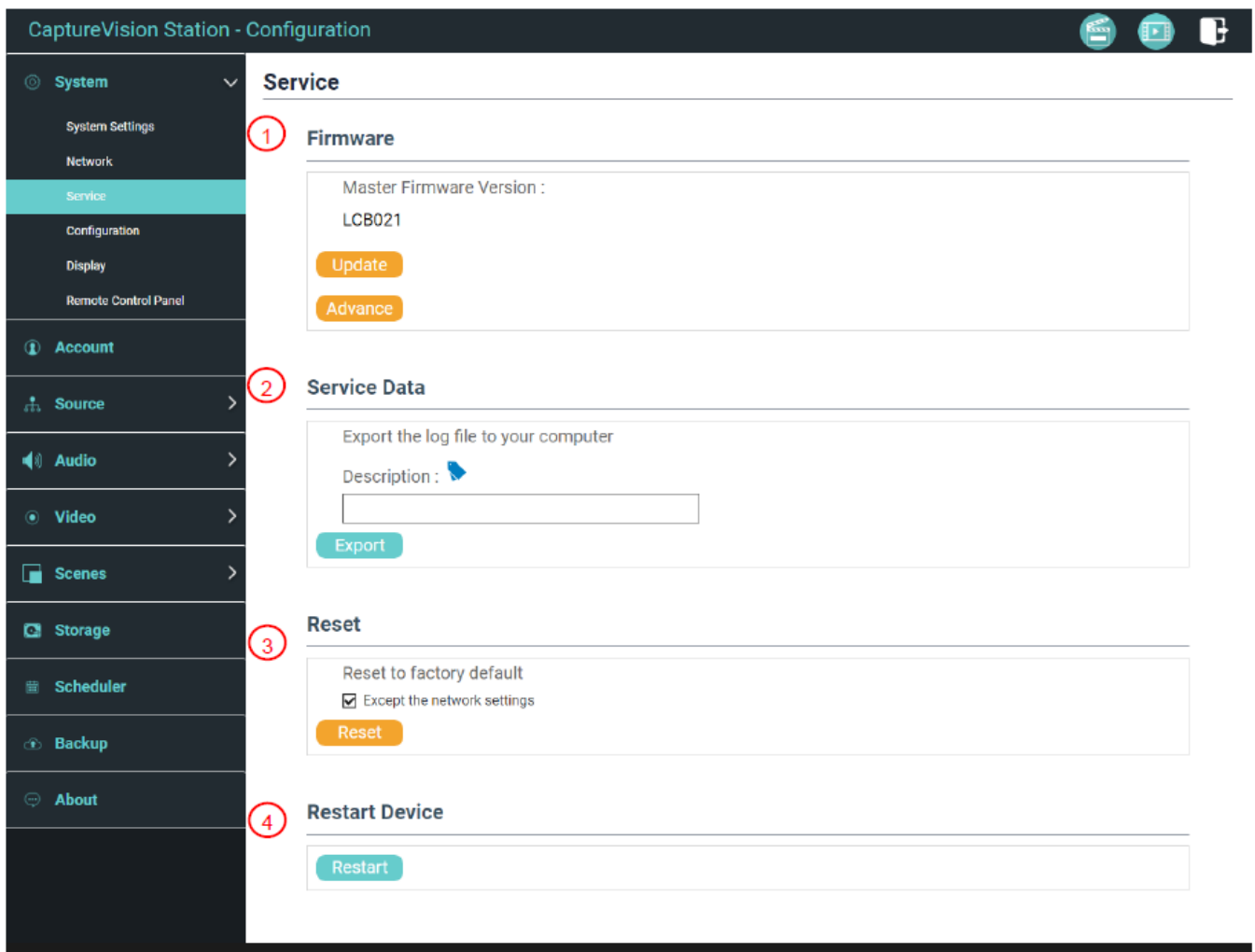
No	Item	Function Descriptions
1	Firmware	Main firmware information and update Click [Update] and select the main firmware file to update Advance: Engineers update sub-firmware usage
2	Service Data	Saves system log files to user's computer 1. Enter file name 2. Click [Export] to export system log files The length of file name must be between 0 ~ 16 characters. Special symbols and space are forbidden
3	Reset	Restores the device to factory reset Check [Keep Network Settings] and the network settings will be remained
4	Restart Device	Restart the device

Configuration

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	Export the current configuration of device as a configuration file
2	Import	Import the exported configuration files from another device

Display

Function Descriptions
Select the HDMI PGM/Multi View output resolution for the device

Remote Control Panel

Function Descriptions
Remote control panel. Display the connection information of LC-RC01 remote control panel (optional). When there is no connection, a blank screen appears

Account

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

No	Item	Username/Password	Function Descriptions
1	Administrator	admin / admin	Top authority. Set up the permission of main system management
2	Online Director	director / director	Online Director function permissions, can manage playback and some basic video settings
3	Video Management	video / video	Views the permission of file storage and playback

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

Source

Physical Video Source Manager

Physical Video Source

Physical Video Source Manager

ID	Source Name	Source Configuration	Visca Address	Protocol	Edit
1	Video Input 1	HDMI 1	N/A	N/A	🖊
2	Video Input 2	HDMI 2	N/A	N/A	🖊
3	Video Input 3	HDMI 3	N/A	N/A	🖊
4	Video Input 4	HDMI 4	N/A	N/A	🖊

Function Descriptions
Click [Edit] to edit the HDMI signal source name and resolution • 3G-SDI video, can switch signal sources on the Video Input 4 edit page • LC300S supports 12G-SDI signal sources and can switch signal sources on the Video Input 1 edit page

USB Video Source

USB Video Source

+ Add

ID	Source Name	Source Configuration	Delete
1	USB_Camera	Lumens VC-B2U Video Camera: Lum(3-6)	🗑

Function Descriptions
Click [+Add], select the USB signal source device, apply it, and then add it [Note] Please confirm that the USB signal source device is connected to the USB Type A port of the device

Network Source Manager

Network Source Manager

Network Source

↻ Refresh

Host Name	IP Address	MAC	Manufacturer	Status	Connected	Delete
VC-A71P-HN (HN-Default, 192.168.4.26)	192.168.4.26	-	-	Add	OK	🗑
VC-A71P	192.168.4.164	DC:E2:AC:01:B3:35		Login	OK	🗑
VC-A71P-HN	192.168.4.33	DC:E2:AC:02:B4:C3		Login	OK	🗑

Network Stream

+ Add

Device Name	URL	Edit	Delete
VC-A51P	rtsp://192.168.4.154:8557/h264	🖊	🗑

No	Item	Function Descriptions
1	Network Source	1 Click [Refresh] and automatically scan the network cameras in the same LAN
		2 Click [Login Verification]/[Add] and enter login information to connect the camera 登入驗證 ✕ 使用者名稱： admin 密碼： •••• 確定 Lumens Network Camera • CameraAccount: admin • Password: 9999 3 Once the status display "OK", indicating that the image can be set under the signal source input selection
2	Network Stream	1 Click [Add] 2 Select the stream type SRT/ RTSP, enter the network streaming name and URL, and then click [Apply] 3 The newly added network streaming name will be displayed in the list

Video Channel Manager

System >
Account
Source ∨
Physical Video Source
USB Video Source
Network Source Manager
Video Channel Manager

Video Channel Manager

Video Channel Manager

| Channel 1 | Channel 2 | Channel 3 | Channel 4 |

ID	Source Name	Category	Format
1	12G SDI	usb	

Edit

Function Descriptions

Click on [Edit], the online video sources will be displayed in a list, please drag the source to the desired channel

▪ Drag the signal sources to change their order

| Channel 1 | Channel 2 | Channel 3 | Channel 4 |

ID	Source Name	Category	Format
1	HDMI 1	usb	

Edit

Network Stream

Total Source:

VC-A71P-HN ⊕

Channel 1:	Channel 2:	Channel 3:	Channel 4:
HDMI 1	HDMI 2 VC-TR40	HDMI 3 VC-A51P	HDMI 4 VC-R30

Cancel   Apply

Audio Source Manager

Audio

Audio output description
Line out(1)： PGM
Line out(2)： MULTI VIEW

Audio Source Manager

Refresh

USB Device Name	Format
Lumens VC-B2U Video Camera(3-6)	PCM, 16Bits, 44.1KHz

Function Descriptions
Click [Refresh] to search for the USB audio source device connected to the device

Video

Support flexible recording configurations, administrators can choose to record a single PGM (mixing video) screen or record 2 to 4 signal source screens, different videos can be set with different encoding settings

Encoder Manager

Function Descriptions
Click [Add Encoder Profile] to configure compression format/resolution/bit rate/audio sampling frequency settings

Record Manager

Record Manager

Record Name	Video Source	Audio Source	Encoder Profile	Compression	Resolution	Bitrate(Mbps)	Edit	Delete
Record_Profile	PGM	Mixed Audio	4K	HEVC	3840x2160	15		

Function Descriptions

Click [Add] to configure the image/sound source and encoder

Note

- Support maximum recording time: 12 hours
- Resolution settings will affect the split-screen supported by PGM. Please refer to the following limitations

Resolution	PGM Maximum Split-screen Quantity	Description
4K 60fps	1 channel	
1080p 60fps	5 channels	1 channel PGM + 4 channel signal source screen

Stream Manager

Stream Manager

Stream Name	Stream Type	Encoder Name	Video Source	Audio Source	Protocol	Edit	Delete
RTSP_Server	Stream Server	1080P_Profile	PGM	Mixed Audio	RTSP		
YT	Stream Client	1080P_Profile	PGM	Mixed Audio	Youtube		

Function Descriptions

Click [Add Stream Manager] to allow users to add stream settings.

Related settings must follow the streaming protocol and the settings recommended by server system support.

Scene

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

	System	>
	Account	
	Source	>
	Audio	>
	Video	>
	Scenes	∨
	Scenes	
	Macro	
	Storage	
	Scheduler	
	Backup	
	About	

① **Overlay** 🏷

Delete   Support PNG file with 1920x136, 1080x240, 800x320, 640x400 resolution.

② **Background** 🏷

Delete   Support PNG file with 1920x1080 resolution.

③ **Scenes**

Scene001   Scene002   Scene003   Scene004   Scene005

Delete   Edit

No	Item	Function Descriptions
1	Overlay	Select and delete overlay style. You can upload files to apply. 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. ※File format: ➢ PNG format ➢ **Supported size:** (a) 1920 x 136 (b) 1080 x 240 (c) 800 x 320 (d) 640 x 400
2	Background	Select and delete background image. You can upload files to apply. 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. ※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".

Macro

Supports 9 sets of macros, users can quickly switch themes, while the camera moves to the specified default position.

With the use of the LC-RC01 extension control panel (optional), the [1~3] buttons on the panel can trigger macro [1~3] settings.

Macro Settings

No	Item	Function Descriptions
1	Scene Selection	Select a scene to be set ¡ If the layout style of the scene needs to be change, please refer to **4.3.6.1 Scene**
2	Camera Preset Setting	Set [Camera Preset Position]. Each supports up to 9 sets of camera preset position selection and start/stop tracking ¡ After checking the box, the marco will preset the settings of the network camera on the assigned Channel 1 ~ 4

Storage

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

No	Item	Function Descriptions
1	Record Disk Settings	Local storage: Click the drop-down menu ⌄ and select local storage hard drive Formats supported: FAT/ FAT32/ NTFS/ ext3/ ext4/ exFAT
2	Disk Information	Display hard drive information, free space, and capacity. Click "Format" to clear the internal storage devices. Confirm if you want to format the hard drive in the pop-up dialog and click "Confirm" to delete all video files.
3	NAS Settings	Enable NAS mounting and related settings. § It is required to go to **Backup Setting> Upload Setting> Mode** to select NAS. After recording, the video can be uploaded to NAS

Schedule Setting

No	Item	Function Descriptions
1	Schedule Settings	■ Click [On/Off] : Enables/Disables schedule function ■ Click [Calendar] : Check the current schedule status [Note] Reset schedule source and replace the current schedule ■ Schedule source: ➤ Scheduling via the Panopto server: Enter the login information of the Panopto server to synchronize schedules ➤ Scheduling via the Opencast server: Enter the login information of the Opencast server to synchronize schedules ➤ Scheduling via the Kaltura server: Enter the login information of the Kaltura server to synchronize schedules ➤ Importing calendar manually: You can import iCalendar files (e.g. Outlook or Google Calendar) Click [Import] and select custom scheduled video file [Note] Only files in .ics format can be imported ➤ Importing calendar periodically You can synchronize schedules from network servers (e.g. Google Calendar) ● Please refer to the videos of How to series on Lumens™ YouTube channel for related settings
2	Stand by and Wake up	Enable/disable the scheduled standby and wake-up functions. Set the scheduled time after the functions are enabled.

 Backup

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	Backup Settings	Auto upload: Disable / Upload right after recording completes / Upload periodically Mode: FTP/ SFTP/ NAS/ USB Storage/ Panopto/ Kaltura FTP/ Kaltura SFTP/ Kaltura HTTPS/ Opencast HTTP/ Opencast HTTPS/ WebDAV http/ WebDAV https Select NAS. Please go to **Storage Settings > NAS Setting** to enable mounting and related settings Connection Test: Click [Connection Test] to test if the current setting can be created

About

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

Online Director

LC300_LC300S is built in Online Director, which allows you to monitor recording and preview the output video from streaming director.
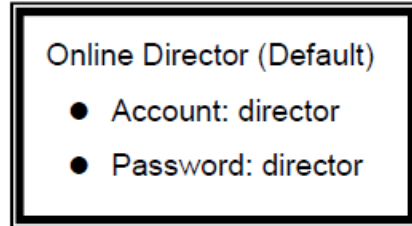
Three login methods below are available:

Select Online Director from the HDMI Multi View real-time operation menu
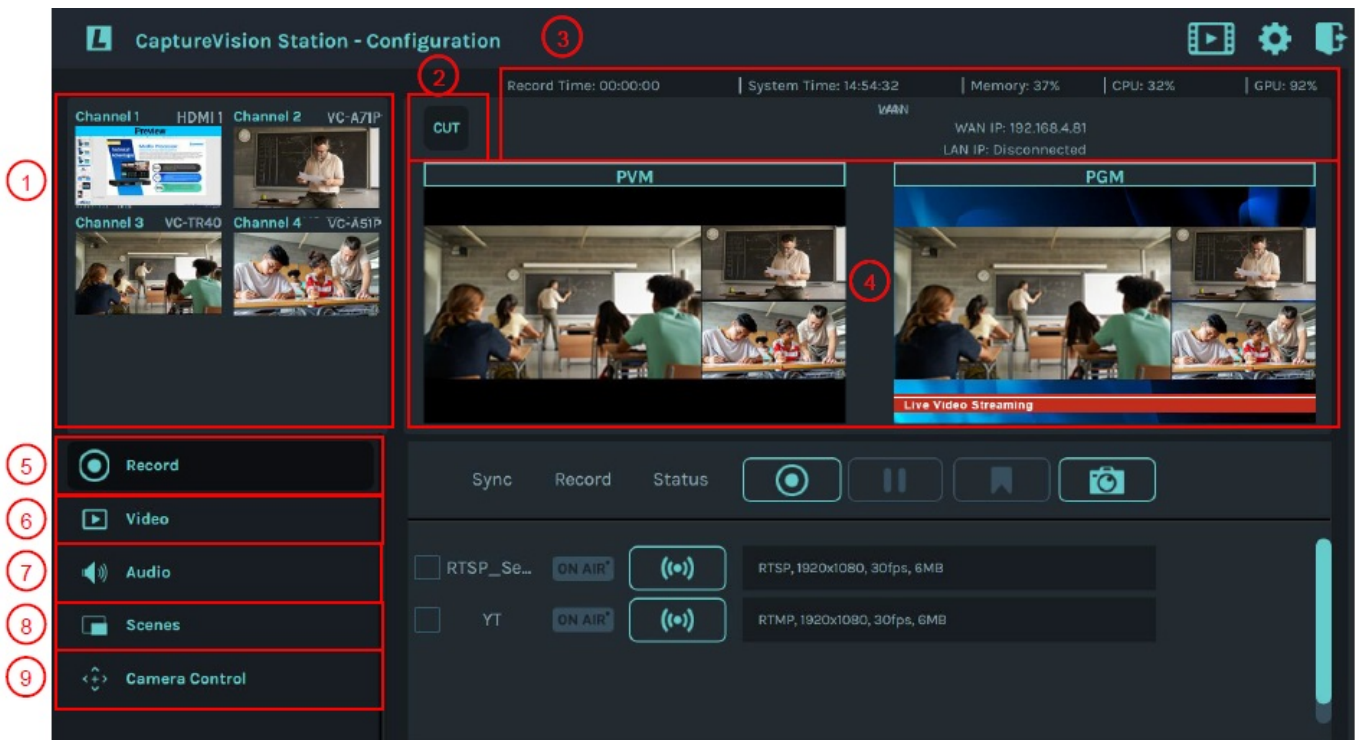

When login the web page, select the Online Director icon at the upper right corner on the parameter setting page
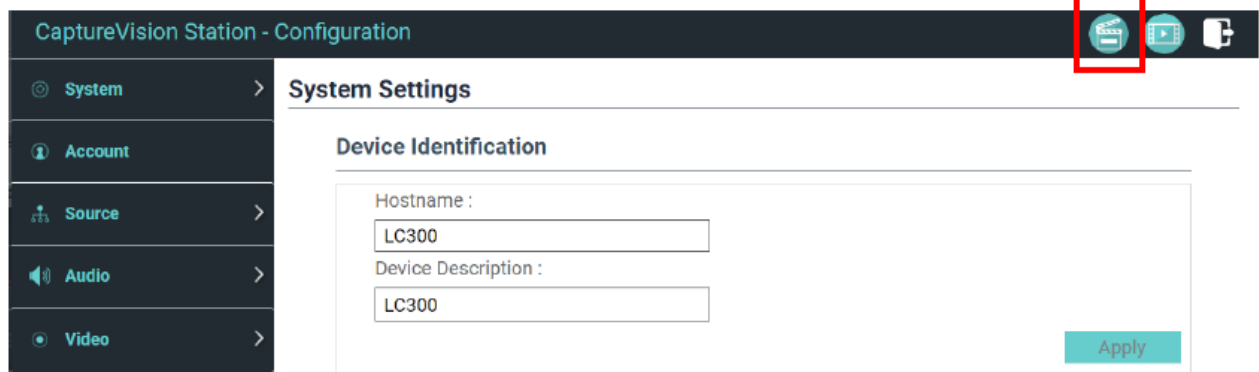
When login the web page, use the Online Director account

**Online Director related feature description as below**

No	Item	Function Descriptions
1	Channel	Video source screen output, display source screen preview
2	CUT	Switch the PVM screen to the PGM screen
3	Status	Displays current recording status, hard disk capacity and Internet connection status, etc.
4	PVM/PGM	Display preview (PVM) and actual output (PGM) screen
5	Record	Start/stop recording; also select whether to synchronously stream or not
6	Video	Select video signal, HDMI signal, network camera, streaming, or USB signal source screen
7	Audio	Manage the input and output audio sources; adjust the audio recording volume
8	Scenes	Fast select the required production layout, or customize the background and scene style
9	Camera Control	Provide video camera/PTZ control

REC Record Setting

No	Item	Function Descriptions
1	Synchronize	After checking the box, press recording button to start/stop push and recording function
2	Record	Display streaming related information
3	Status	The push connection status will be highlighted
4	Start/Stop Recording	Start/stop recording, the start recording status bar will display the recording time

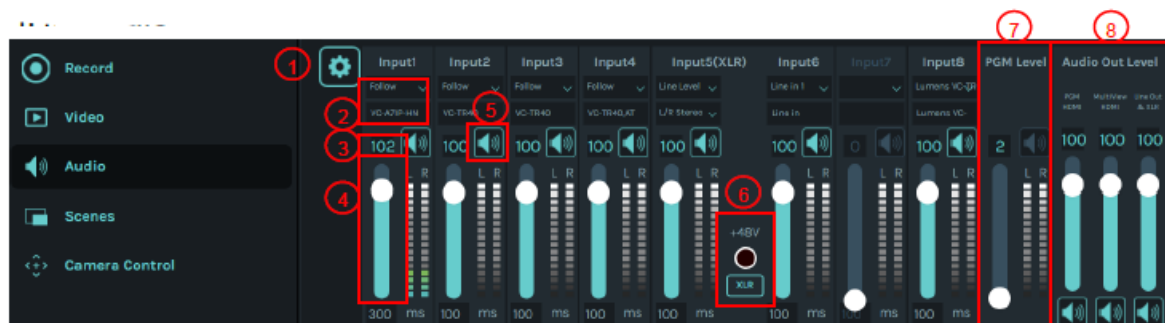| No	Item	Function Descriptions
5	Pause	Pause Recording
6	Index	Timestamp can be added after the recording starts
7	Capture	Capture a photo
8	Single-channel Push Button	Push right away without starting recording function

Video
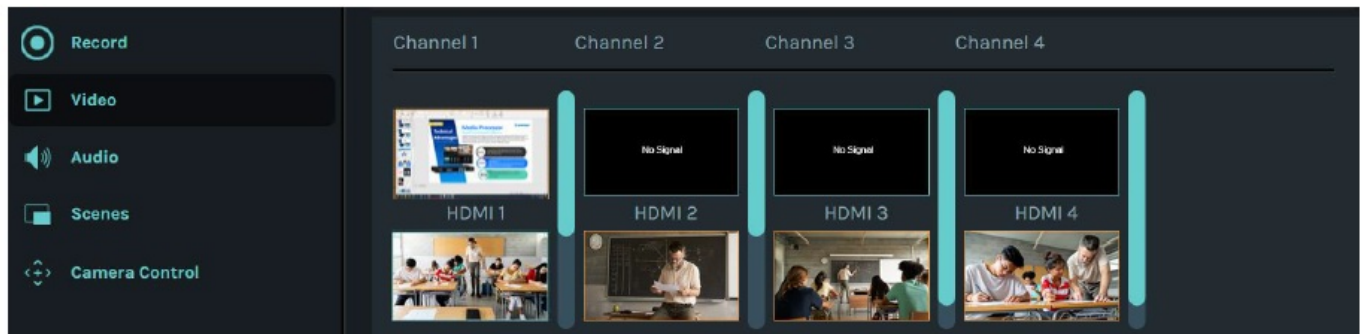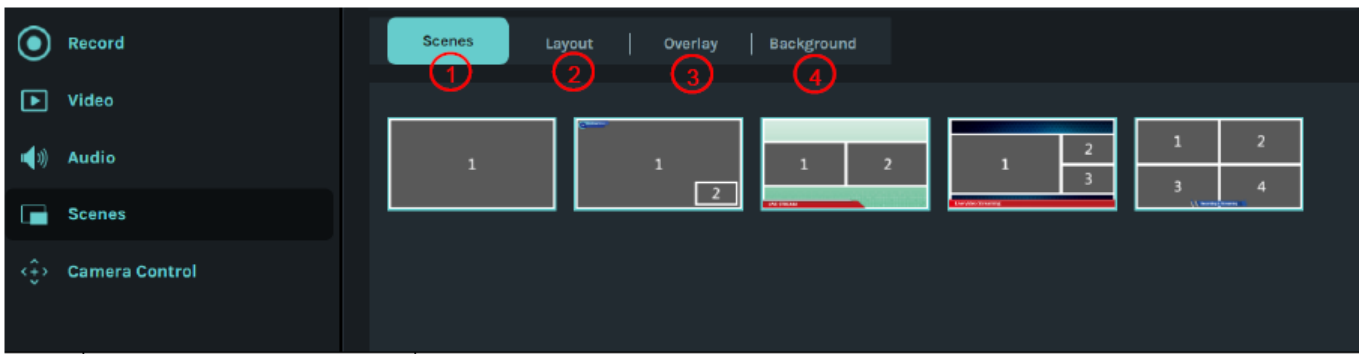

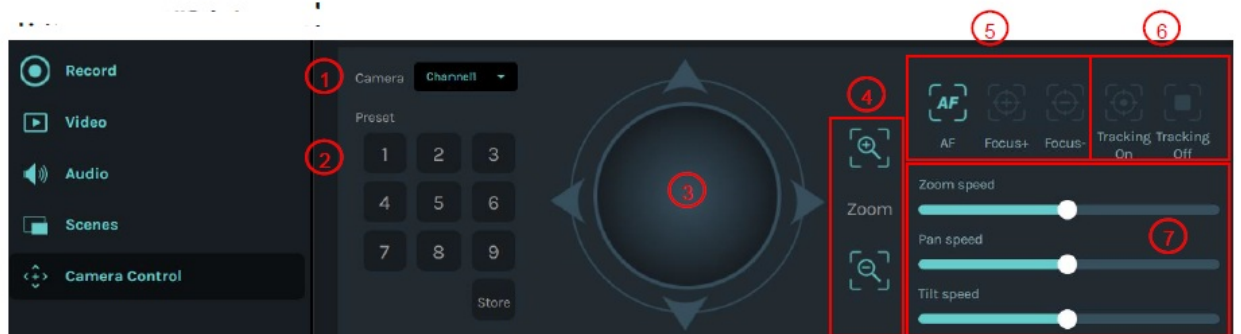| Function Descriptions |
| --- |
| Preview Channel 1 ~ 4 signal sources screen, click on the screen to select the output signal source |
| Please refer to **4.3.3.4 Image Distribution Management** for adding video sources. |

No	Item	Function Descriptions
1	Set Delay Time	Set audio delay time
2	Audio Source	Select an audio source
3	Audio Volume	Display current audio volume scale
4	Volume Control	Adjust the volume of audio input
5	Mute/ Unmute	Mute/ Unmute audio output
6	+48V phantom Power	On/Off the +48V phantom power
7	PGM Level	The output volume control of the software mixer affects the volume of PGM recording/streaming
8	Audio Out Level	• PGM HDMI: Set PGM HDMI volume • MutltiView HDMI: Set Multi View HDMI volume [Note] Line out (2) volume synchronized Multi View HDMI volume • Line Out(1) & XLR: Set the volume for Line Out (1) & XLR [Note] This field adjusts the volume and does not affect the recording/streaming volume

Scenes Layout Setting

No	Item	Function Descriptions
1	Scenes	Scenes page is the integration of "Overlay," "Background Image," and "Production 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 "Online Director" system. Click the thumbnail to apply.

Camera Control

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

File Management
Perform the following functions via the file management interface: Upload, download, delete, replay video files and edit recording information.

Multi View Output Interface

No	Item	Function Descriptions
1	Preview	Click desired video files to play and control on the Preview screen
2	Program	Display the Director screen or switch to synchronize with the Preview screen
3	Screen Switch	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	Video view mode. You can switch to thumbnail mode or list mode
6	Folder	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

Webpage Interface

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

Video management
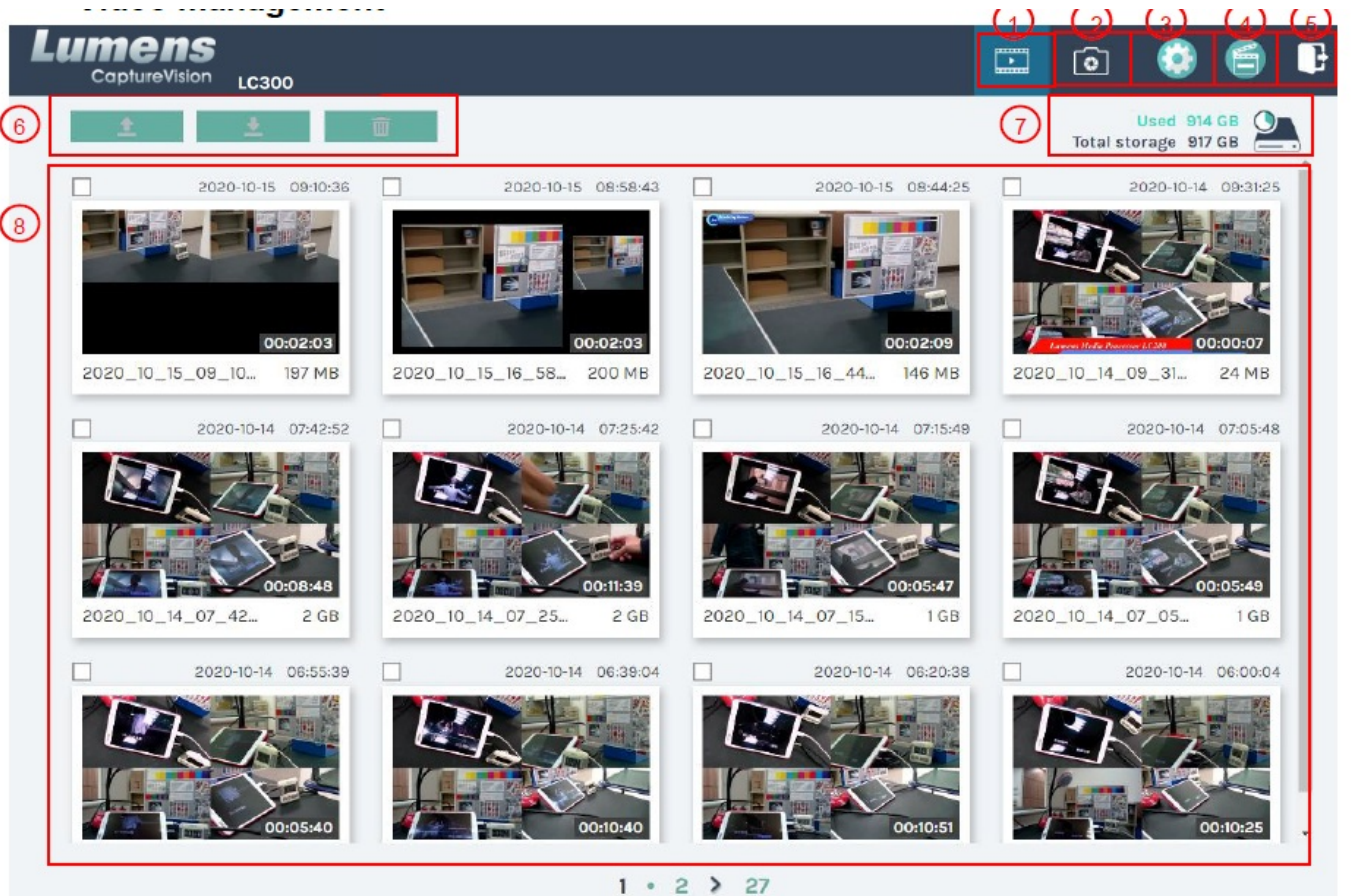
No	Item	Function Descriptions
1	Video Management	Click to access the video management page
2	Photo Management	Click to access the picture management page
3	Configuration	Click to access the system setting page Log in the web page with admin/admin to display system setting subpage If you log in the web page with video/video, you will not find the system setting subpage and you can only manage videos and photos
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 the used file 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
	Videos are uploaded successfully		Videos are queued for upload
	Fail to upload videos		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.
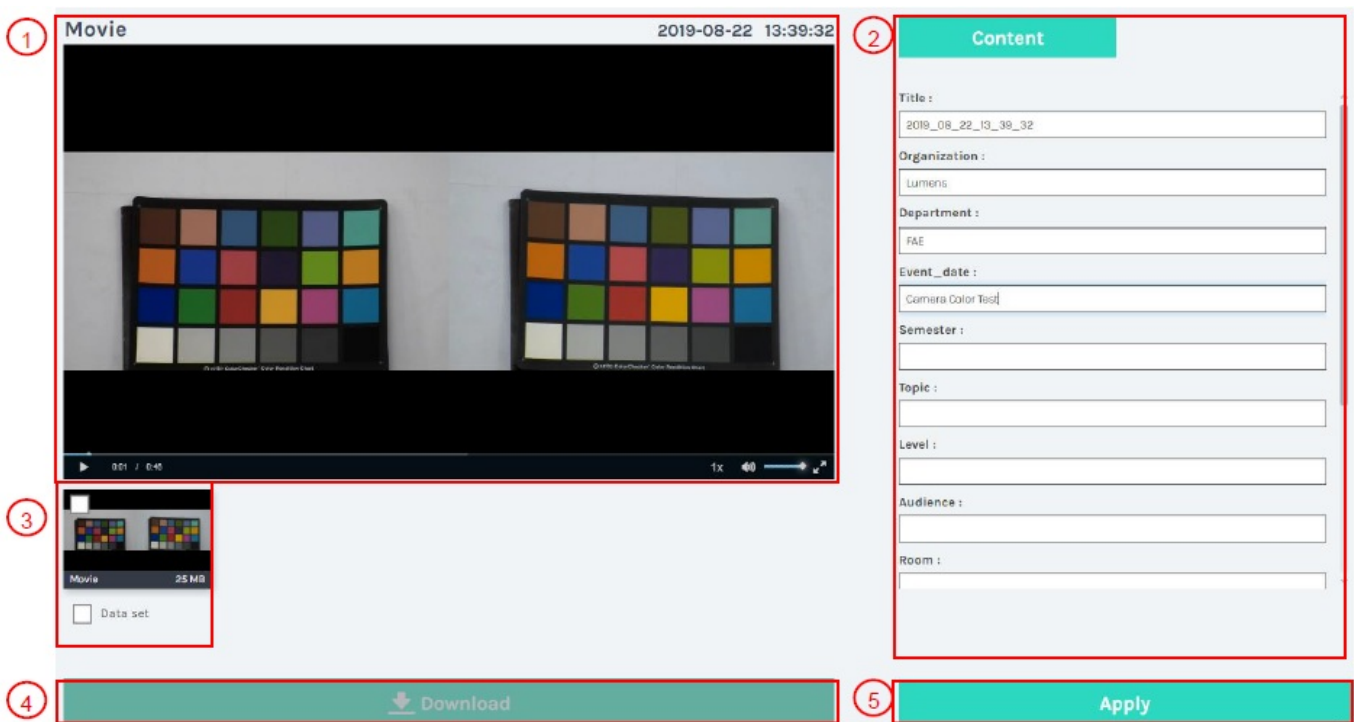If only video files are needed, you can click the video thumbnails and access video playback page to download the video files only.

- Delete

  Check the thumbnails of the videos to delete. Click [ ] 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	Click this button to download the checked video files or datasets
5	Apply	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.
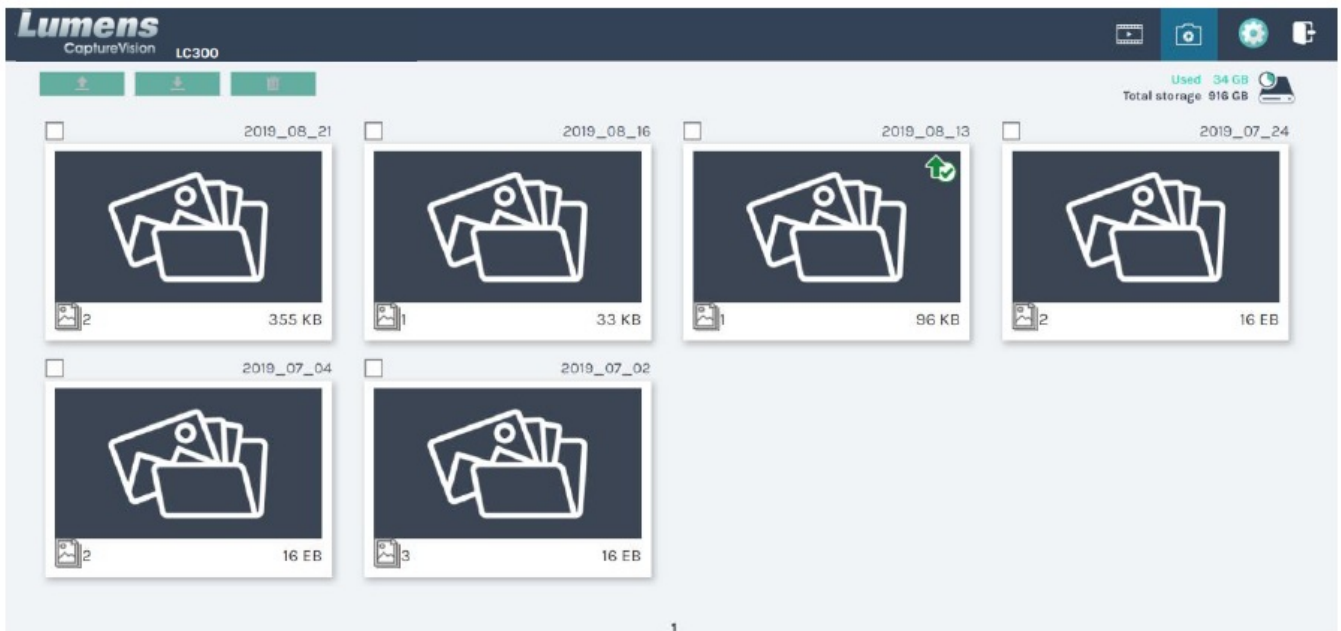
Chapter 5 Troubleshooting

This chapter describes problems you may encounter while using LC300_LC300S. 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	Please confirm that the power cord used is of DC 19V specification
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. LC300/LC300S cannot record video from a video output including HDCP format 6. Confirm whether the machine is in standby mode. Tap any button on the device panel to wake the machine (*Note 1)
3.	The panel buttons are not responding	The panel become non-functional when logging into the system
4.	LC300/LC300S cannot perform camera control after connecting to a camera	Please make sure the dial setting of Camera Address Selector is 0. Device cannot identify camera correctly if it is not 0
5.	You cannot log in the web page administration interface if you forget the password	Press the Reset button on the front panel to reset the device (hold press for 3 seconds)
6.	Webpage login failed	1. Confirm whether the machine is in standby mode. Tap any button on the device panel to wake the machine (*Note 1) 2. Please confirm whether the password is correct. If you forget your password, please refer to Troubleshooting #5.
7.	LC300/LC300S cannot find the camera	1. Please link to the webpage of the camera to make sure that [Setting] > [Video] > [Camera ID]/[Camera Location] in the webpage uses only English letters or numbers. The device cannot find the machine if you use special characters and space. 2. When the device 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.	LC300/LC300S supports maximum recording time	The maximum recording time which LC300/LC300S supports is 12 hours. 24/7 recording is not supported.

Addendum 1
Frequently used port No.

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

Documents / Resources

Lumens LC300 Capture Vision Station [pdf] User Manual
LC300, LC300S, LC300 Capture Vision Station, LC300, Capture Vision Station, Vision Station, Station

References

- **User Manual**