

## LC200

### CaptureVision Station



- Supports 1080p 60/30fps recording
- Supports 4 HDMI Inputs and IP video sources including Lumens IP cameras, and standard RTSP streams.
- Supports HDMI-embedded audio or analog stereo audio with 4 channels Audio Input mixing and gain control.
- Flexible scaling and window processing, supports PIP, PBP and up to 4 windows layout and mixing
- Advanced Scenes Switch
- Webpage and plug n play GUI Director Interface
- Built-in 1TB HDD storage or optional 2TB HDD

# Introduction

Previously, we used to go to the auditorium, amphitheater, and concert hall to enjoy a symphony, an opera, or a sports event. We had to attend a live performance physically; otherwise, we would miss our favorite play or show and had to wait for a while until the next tour came to town. With the rapid development of the Internet and A/V technology, new forms of media are springing up. From video presentation, corporate meetings, to a religious sermon, streaming and recording have removed the geographical distance and become the way organizations distribute video content. Lots of possibilities and opportunities are created; however, it also complicates the A/V system.

## **Streaming and recording require ease of use and management:**

Too much technology complexes the streaming process. One A/V system must be compatible with different video sources and multiple streaming protocols. Streaming and recording configurations must be easy to setup. Recording files should be manageable and flexible to store in a variety of locations.

## **Live production capability:**

Today viewers get bored quickly by watching the same shot even for a short period. The constant change of layouts, overlay, and background increase audience engagement and enhance the viewer experience.

## **Lumens media processor Capture Vision Station:**

The LC200 is an H.264 encoder that integrates functions of streaming, recording, switching, and live production. From content laptops to Lumens IP cameras, the LC200 can process and mix four channels at one time. The ability to stream and records simultaneously at different configurations makes the LC200 the perfect A/V product for video presentations. Recording files can be stored in the built-in 1TB hard drive, external USB storage, or uploading to partner servers like Panopto, Kaltura, Opencast, etc.

## **Easy to use and manage:**

The LC200 can be managed through the front panel, user-friendly director GUI, and webpage configurations and director. Only a little training is needed. No technical background or previous experience is required.

Advanced scenes switching with multi-cameras controller: The LC200 supports user-defined layout, title/logo overlay, and background. An advanced scene is a combination of the above effect that pre-defined by users which allows quick switching. Live production capability attracts the audience, guild their understanding, and enhances their takeaway.

## **Benefits from streaming and recording:**

The LC200 can be used in many professional situations. With professional A/V source equipment, corporations can live streaming an event or record training material. Educational institutions can capture lectures for those students who are unable to attend classes. Religious institutions can live streaming sermons to spread ministry all over the world, and record services and preserve a wealth of knowledge.

## **Applications:**

- Corporate
- Education
- Government
- House of Worship
- Medical
- Events
- eSports
- Courtroom



# Features

## 4-Channel recording, streaming, live switching media processor

Lumens LC200 CaptureVision Station is an all-in-one media processor. Just one stand-alone device that allows you to mix four video sources, recording, streaming, and live-switching simultaneously; perfect to serve as the core system for your video project.



## Live advanced scenes switch

The powerful function of advanced scenes switch, helps you capture the attention of your viewers and increase audience engagement in your event. With just one click, you can roll out user-defined scenes that contain PBP PIP layout, title/logo overlays, and pleasing background.



## Bring multiple videos and audio together

The LC200 captures various video sources, including HDMI inputs, Lumens IP cameras, and RTSP streams, and allows you to switch among them. Together with four line-in, you can provide a complete audiovisual experience to your viewers!



## Scheduling

Through Outlook or Google calendar, you can schedule your important events to create, record and stream your video content.



## Content management system integration

The LC200 integrates with several content management systems like Panopto, Kaltura, and Opencast, etc. which are great applications for enterprise video and school lectures. Especially, LC200 is seamlessly compatible with Panopto. The integration provides scheduling, live streaming, and backup videos.



## Record everything

The LC200 records not just the program-out video but also records four independent channels video as well with gorgeous high definition images and crystal clear audio, which also makes your post-production much easier.



## Built-in HDD, USB port, FTP supports

The LC200 has a built-in hard drive that can store up to 500 - 1,000 hours of video. You also have options to upload your recordings to an external USB device or the FTP server, or NAS.



## Multi-stream anywhere

Live streaming is a powerful tool. The LC200 can live stream up to three destinations like YouTube, Facebook, Twitter or twitch.



# Overview

## Front panel

**One-Touch to Record and Stream**  
Start / Stop recording, streaming and snapshot

**Layout / Source Switch**  
Single, PIP, PBP...layouts switch, select the source for each window, and customized scenes switch



**USB 3.0 for Storage**  
The front-panel USB port makes connecting portable storage device easy for "recording directly to a USB  
Copy video files to a USB flash drive.

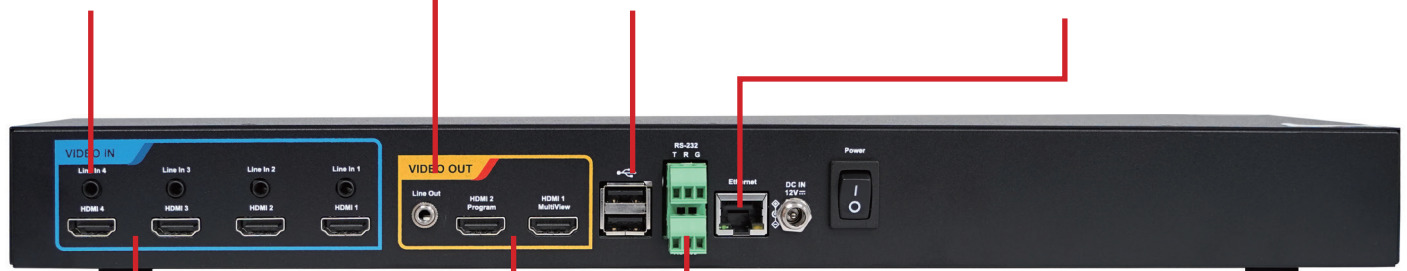
## Rear panel

**Line Out**  
3.5mm phone jack line out for live audio mix monitoring.

**Ethernet**  
Ethernet port for receiving video streaming from an IP source, stream transport and transfer storage directories. It also supports embedded web interface and A/V control systems

**Analog stereo Audio/ Input**  
Supports 4 analog stereo audio (3.5 mm phone jack)  
For line in.

**USB 2.0**  
Supports USB Mouse and Keyboard for the GUI interface operations.



**Supports**  
Supports 4 full HD HDMI video inputs  
And HDMI-embedded audio

**HDMI Output x2**  
One Program(mixed video)  
And one Multi-view(GUI) interface output to display

**From the A/V**  
Controls and manages the LC200 from A/V control system

# Application

## AUDIO/VIDEO STREAMING AND RECORDING

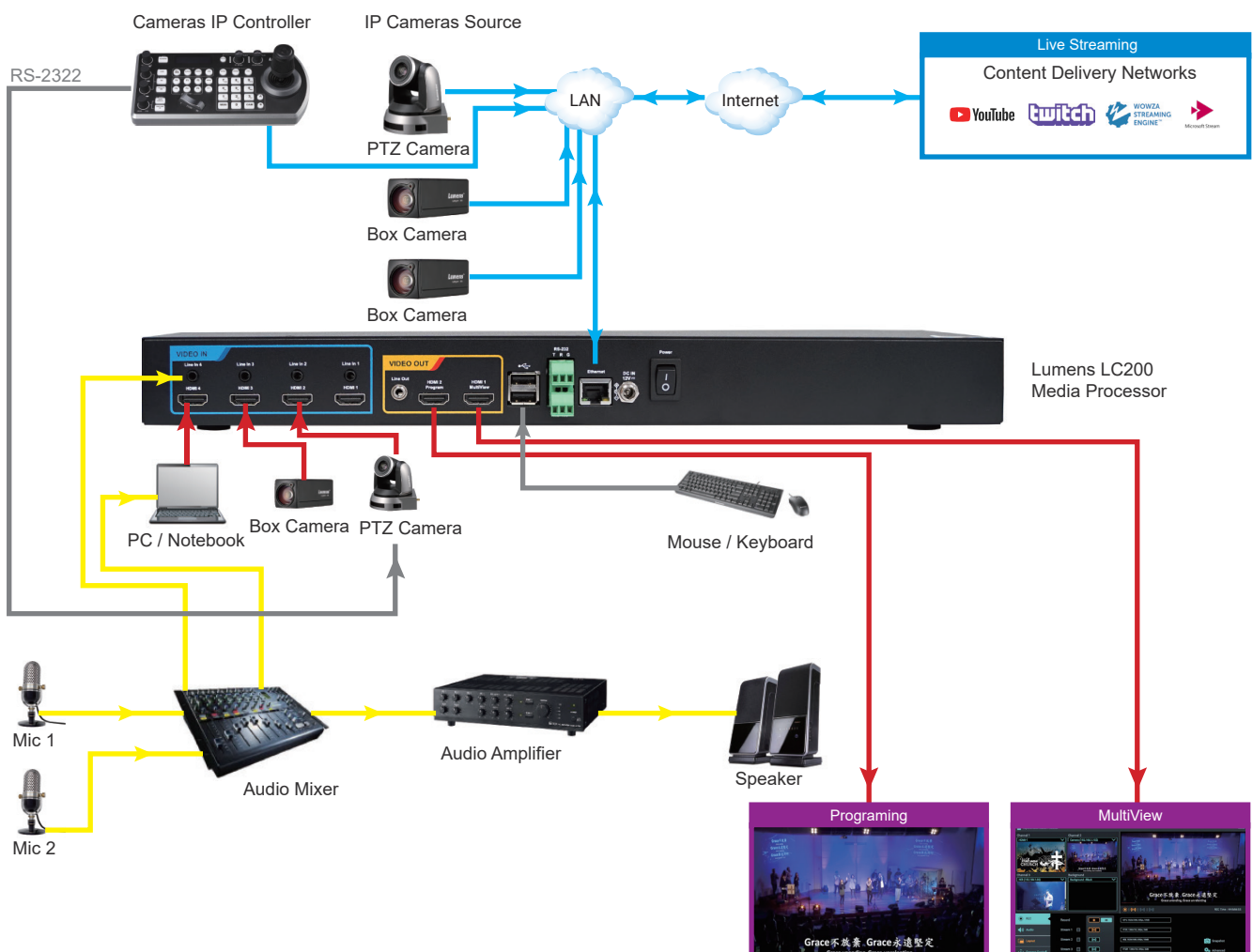
The LC200 can serve as the central switching and processing device for an A/V system. This system uses the LC200 to manage A/V sources and records IP cameras or sources, together with a PC or laptop source connected through HDMI.

Only need an HDMI display and USB mouse, user can switch the A/V source, different layout, background and overlay during a recording session.

Lumens camera controller is able to control cameras to the appropriate position or set the presets to help move quickly with a PTZ camera.

Users have the option to save MP4 files directly to a USB thumb drive or the built-in HDD in LC200.

In addition to video recording, the LC200 can also stream live to cloud platforms such as Youtube, Facebook, Wowza, Microsoft Stream, etc.



▲ Live Streaming Event, House of Worship

# Application

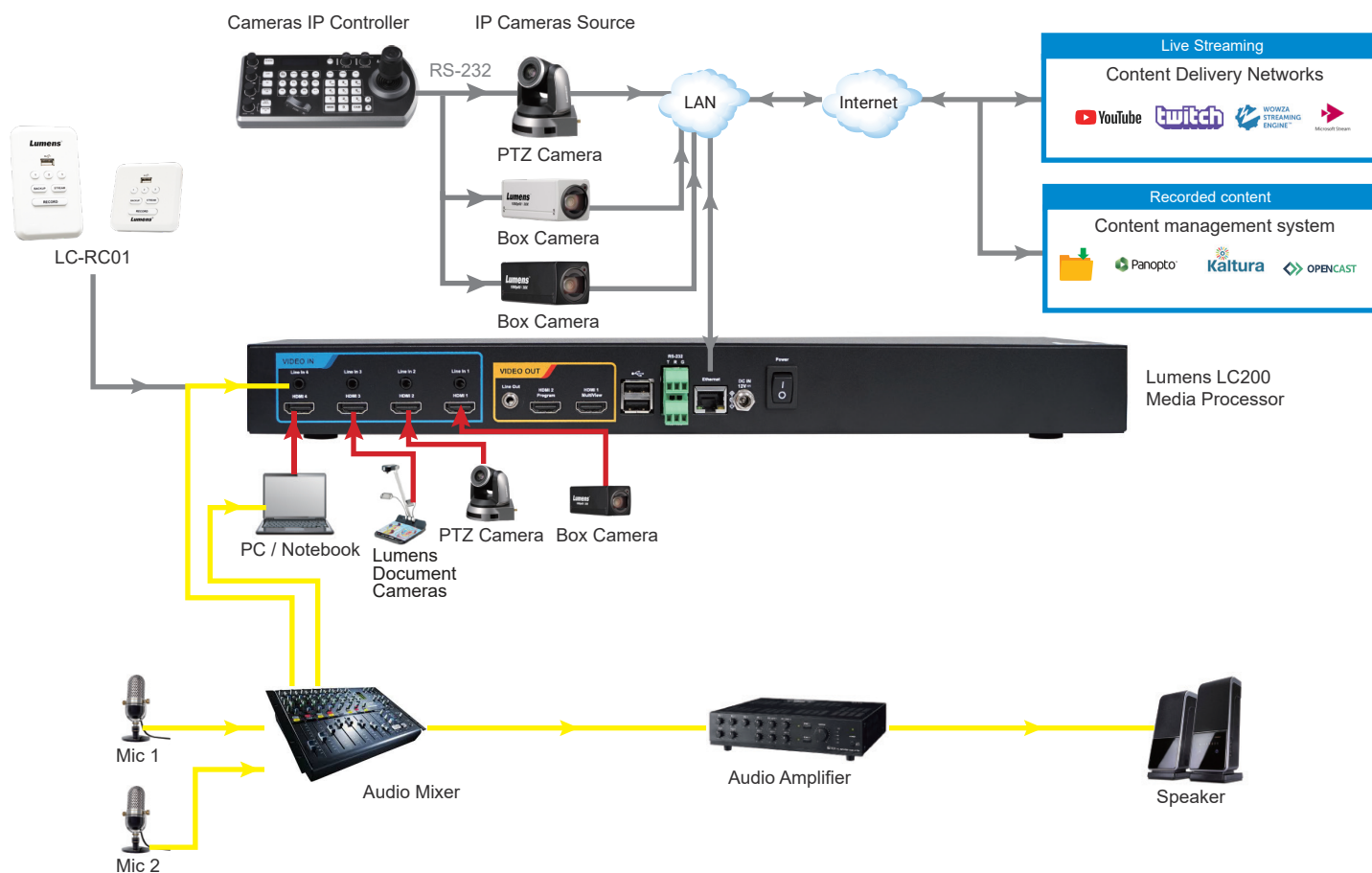
## LECTURE RECORDING AND DISTANCE LEARNING

The LC200 can record the content from a presenter's computer(PPT, etc.) and the video from cameras in the classroom, and mix all the audio inputs.

With scheduling, system administrators will avoid missing important classroom recordings.

The presenter can start or stop recording with a remote control panel.

The LC200 supports Content Management Systems like Panopto, Kaltura, OpenCast, and FTP. After video recording, the LC200 will automatically upload the video files to the content management server. Students who are not participating in this course can go to the Content Management System for further review.

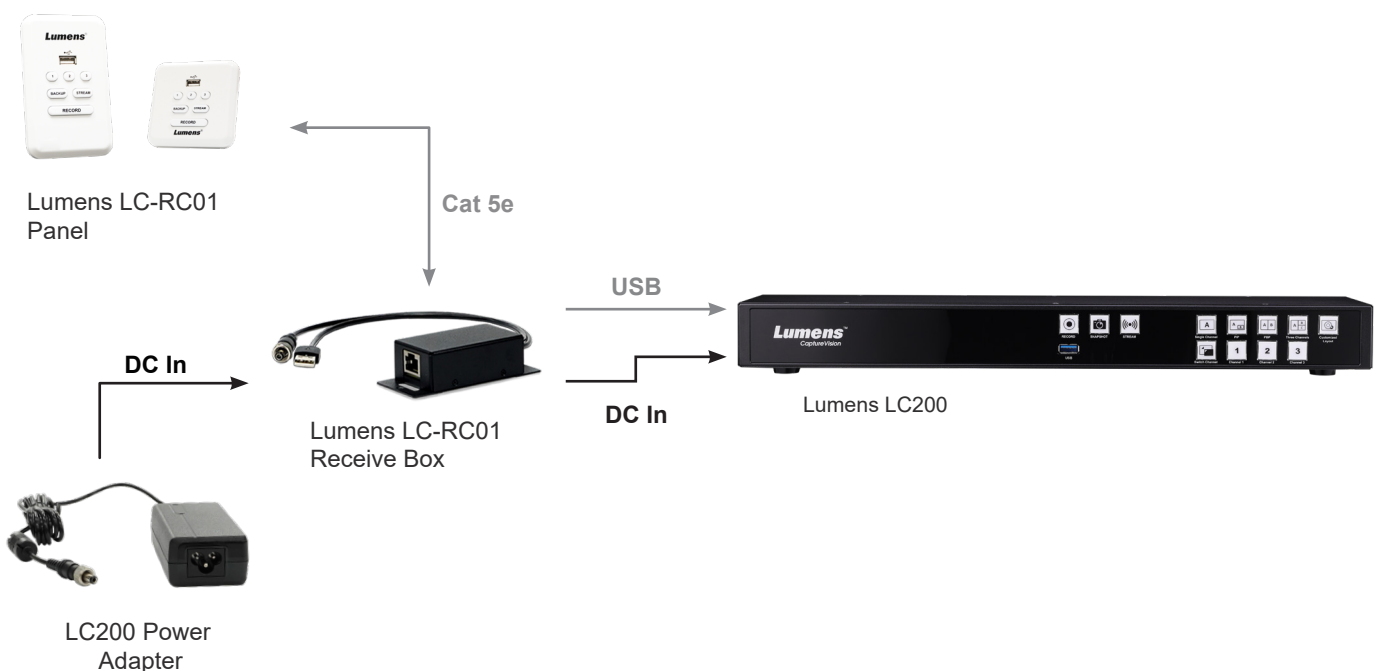
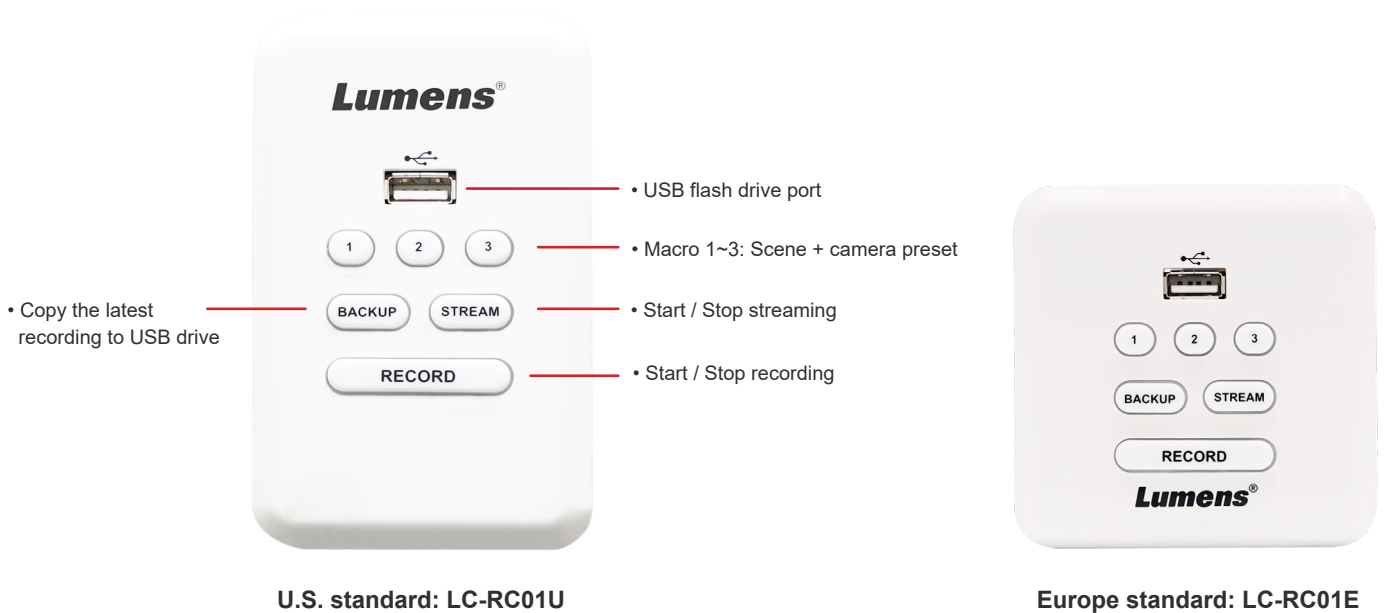


# Optional Accessory

## LC-RC01 Remote Control Panel

Lumens LC-RC01 remote control panel, a wall plate for the LC200 to control the live streaming, recording, and video file saving options. The panel provides three macro functions that can remotely switch the scene and control the camera's preset.

The LC-RC01 can be extended to 30 meters through a Cat 5e cable. It can be mounted on walls and furniture in any standard one-gang US/EU A/V frame enclosure. Equipped with a USB port, it supports USB flash drives to record or backup video files. The LC-RC01 offers greater flexibility for operating the LC200.



VIDEO INPUT		AUDIO OUTPUT	
Number / Signal	4 HDMI digital video	Number / Signal	1 stereo, unbalanced 3.5mm phone jack 2 stereo, digital de-embedded audio from HDMI
Connection	4 female HDMI type-A	<b>COMMUNICATION</b>	
Resolution Range	480i~1080p 60fps	USB	2 rear panel USB 2.0 type A Support USB mouse, keyboard, HID touch display
IP Source	Lumens IP PTZ / Box Cameras RTSP Source (H.264 1080p 60/30fps)	Serial Control	RS-232 / RS-485 port
VIDEO PROCESSING		<b>ETHERNET</b>	
Video Compression	H.264/AVC 4:2:0 8bit color Encoding profile: High, Main, Baseline	Ethernet Host Port	1 female RJ-45 10/100/1000 Base-T high/full duplex
Bitrate	200 kbps to 10 Mbps	Streaming Protocol	Pull: RTSP Push: RTMP / RTMPS / MPEG-TS TCP, UDP, HTTP DHCP Client
VIDEO OUTPUT		<b>FUNCTIONS</b>	
Number / Signal	3 H.264/AVC digital video over Ethernet 2 HDMI digital video	Supports IP Sources	Lumens IP Cameras, RTSP
Scaled Resolution	1080p	Scenes Switch	Yes, preset for layout, background, and overlay
Frame Rate	30 / 60 fps	Layout Switch	Yes ( Single, PIP, PBP, 3 and 4 windows layouts)
RECORDING AND STORAGE		Background Switch	Yes
Internal Storage	Standard 1TB HDD / Optional 2TB HDD	Overlay	Yes, PNG overlay or System time overlay
External Storage	1 USB 3.0 port in front panel	File Backup	FTP / SFTP / NAS(CIFS/SMB, NFS) / USB Flash Drive
File Type	MP4 (H.264), JPEG	<b>GENERAL</b>	
Resolution	360p, 720p, 1080p	Power Supply	DC In , 12 V / 2A
Frame Rate	Max. 1080p 60/30 fps	Power Consumption	24W
AUDIO INPUT		Dimensions	Standard 1u rack dimensions 122.5mm(L) x 431mm (W) x 44.3mm (H)
Number / Signal	4 Line In (stereo, 3.5mm phone jack) 4 stereo, digital de-embedded audio from HDMI IP Audio Source (RTSP, 16K/44.1K/48K)	Weight	1.2 kg

Accessory	LC-RC01U/E	Accessory	LC-RC01U/E
INTERFACE		GENERAL	
Button	6 LED buttons Record, Stream, Backup , Macro 1~3	Power Consumption	6W
USB port	1 female USB 2.0 Type A, support USB flash drive	Temperature	Storage: -20 ~ + 70 °C Operating: 0 to +40 °C
EXTEND		Humidity	10% ~ 90%
Cable Type	Cat 5e / Cat 6 and above	Dimension	LC-RC01U Wallplate: 115mm (H) x 74mm (W) x 43mm (D) LC-RC01E Wallplate: 86mm (H) x 86mm (W) x 43mm (D) Receive Box: 41mm (H) x 90mm (W) x 25mm (D)
Maximum extension Distance	30 meter (98 ft)	Weight	LC-RC01U Wallplate: 0.11 kg LC-RC01E Wallplate: 0.09 kg Receive Box: 0.13 kg
MOUNTING			
LC-RC01U	Mounts to standard 1-gang US enclosures or to surfaces with included mud ring		
LC-RC01E	Mounts to standard 1-gang EU enclosures or to surfaces with included mud ring		

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