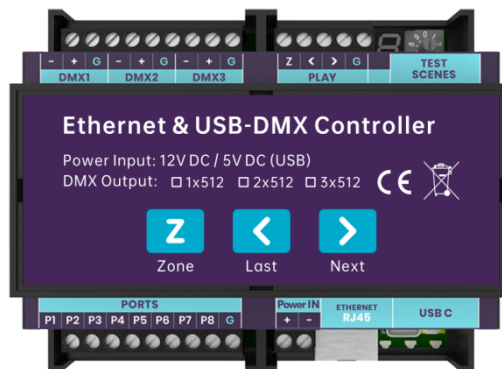


## DIN Rail Ethernet RDM/DMX Controller

### CQ-CE31



Welcome to the CQ-CE31 din rail-mounted Ethernet RDM/DMX lighting controller, which is suitable for DMX lighting projects that require programming customization. Through computer software, you can control various DMX fixtures such as water pattern lights, beam lights, laser lights, LED flood lights, two-color temperature LED, RGBW, RGBWY, etc., as well as DMX music players, DMX lifting balls, DMX fountains and other DMX devices.

The controller can select 512 / 1024 / 1536 DMX channels, 5 zones can be controlled individually. The programming software can run on Win10/Mac systems and can customize the light library files to be compatible with more DMX devices. The software can also precisely control each DMX channel, and can preview the lighting effect in real time, what you see is what you get. After programming the effect, download it to the controller with one click to achieve offline control. The controller can be controlled through UDP central control, WiFi APP (Android/iOS), dry contacts, sensors, timing control, etc.

## 1. Features

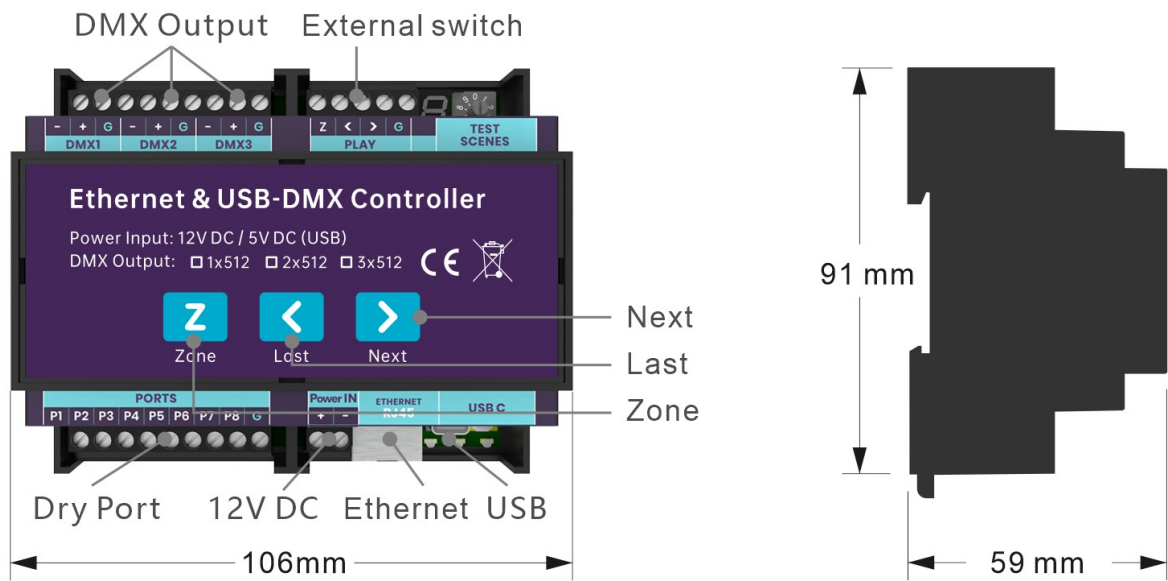
- PC Program, Stand Alone Control
- DMX Channels: 512 / 1024 / 1536
- 5 Zones, 99 Scenes
- RDM (Remote Devices Management)
- LED, Stage Lighting, PAR LED, Laser Lighting, DMX fountains
- UDP, Dry Port, Sensor, Time Trigger
- Windows, Mac, APP Program & Control
- DIN Rail-Mounted

## 2. Specification

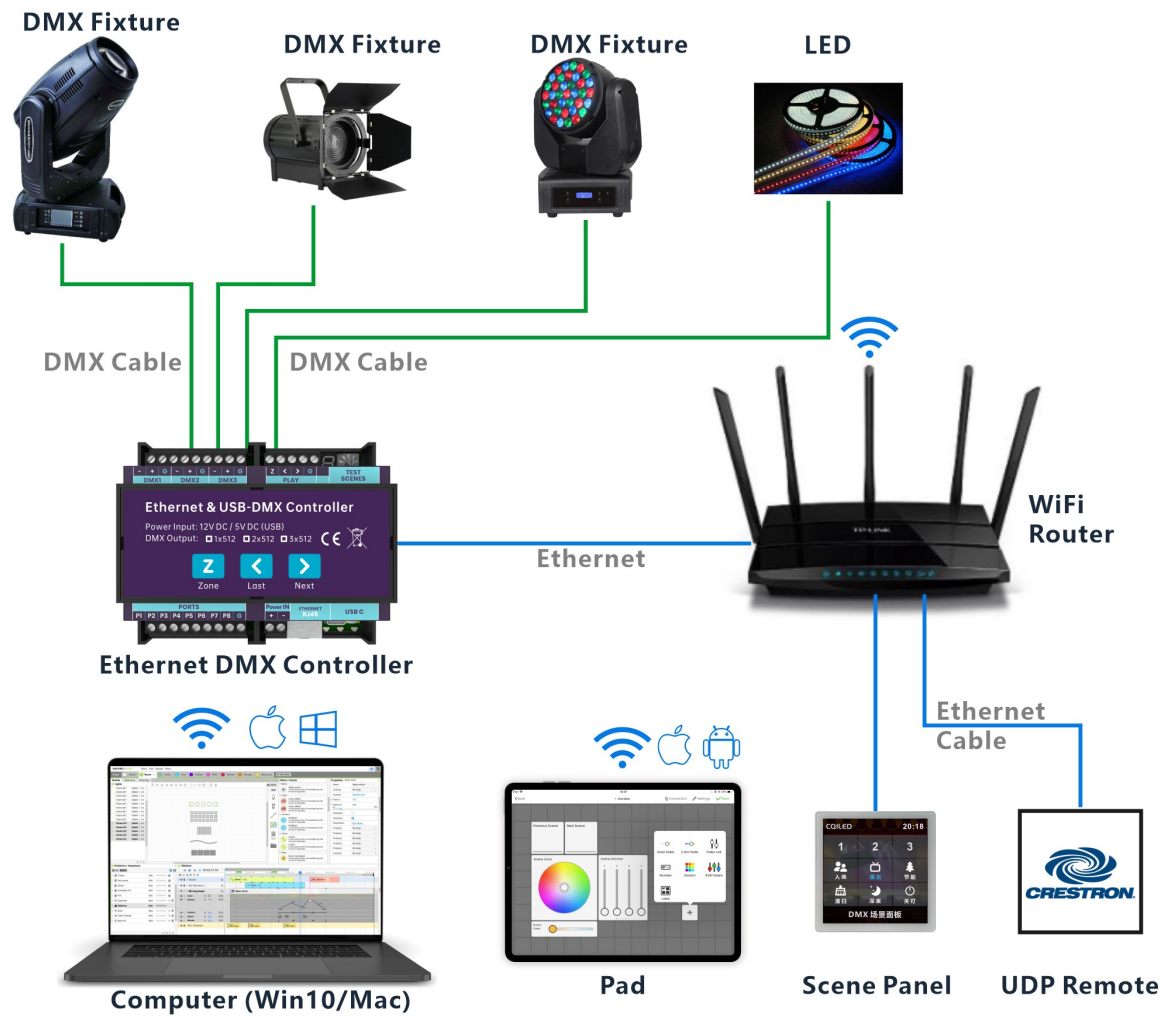
<b>Part No.</b>	CQ-CE31
<b>Input Voltage</b>	12V DC (Screw Terminal) / 5V DC (USB)
<b>Output</b>	DMX512 / RDM
<b>DMX Channels</b>	512 / 1024 / 1536
<b>Scene</b>	99
<b>Zone</b>	5
<b>Memory</b>	Micro SD (32G Max.)
<b>Software</b>	Windows, Mac, Android, iOS
<b>Triggers</b>	UDP, APP, Time, Dry Port
<b>Connection</b>	USB, Ethernet
<b>Temperatures</b>	0~60°C
<b>Dimensions</b>	106x91x59mm

**Note:** Some functions are being developed and improved, and after completion, they will be updated through the network.

3. Dimensions



4. Application



#### 4.1 Live Program

Connect the DMX fixtures to the controller, connect the controller to the computer (Windows/Mac) via USB or network connection, and you can use the software to program and control the fixtures online.

#### 4.2 Stand Alone

In Stand Alone mode, the computer is not required, as long as the power is on, you can achieve the accurate reenactment of all pre-programmed lighting effects, and when standalone mode, you can also control the timing control, dry contact trigger, APP or UDP central control control.

#### 4.3 Scene Panel / APP Remote

In Stand Alone mode, you can also connect the DMX scene panel for scene control through the network cable, or connect the central control system to link with other audio and video systems to achieve simultaneous interpretation of sound and photoelectricity.

### 5. Software & APP

#### **ESA PRO 2 (Windows / Mac) Time Line Software**

<http://www.cqiled.com/en/product/esapro2.html>

#### **ESA2 (Windows / Mac) Easy Fader Software**

<http://www.cqiled.com/en/product/esa2.html>

#### **Arcolis Remote Pro (iOS / Android) Customized APP**

<http://www.cqiled.com/en/product/remote-pro.html>

#### **RDM Manager (Windows / Mac) RDM Remote Device Management**

<http://www.cqiled.com/en/product/rdm-manager.html>

### 6. UDP Central Control

CQ-CE31, Remote control can be carried out via UDP network protocol to synchronize light with audio, video, and other devices, and integrate control. For UDP network control, the requirements are as follows:

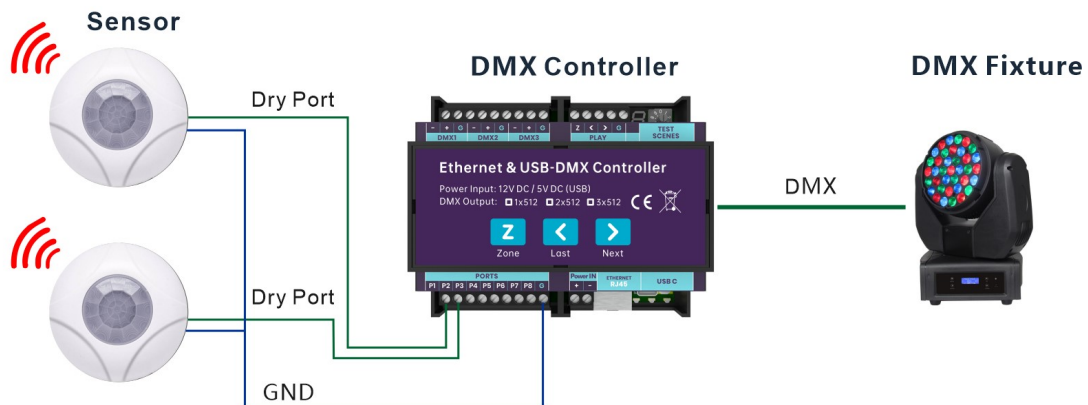
1. Static IP Address: To use Hardware Manager Software, set the controller to a fixed IP;
2. Port: 2430
3. Format: Hex
4. Protocol: 44696E615F5F32410A01FFFFFFFFFFFFFFFFF01001B000103000064

In the protocol content, the number in red at the end represents the program number: 00 is program 1, 01 is program 2, 02 is program 3.

## 7. Notices

- Rotary switch next to the LED display for test use, please save in "position 0"
- If timing is required, please confirm that the battery (LIR 2032, 3.6V DC) has been installed in the controller, and pay attention to the positive and negative terminals of the battery. If the battery is replaced, clock correction using Hardware Manager software is also required.

## 8. Dry Port Trigger



The CQ-CE31 can be triggered by dry port. When using dry port, connect the GND of the sensor to the "port G" of the controller, and then connect the signals of each dry contact to the P1~P8 port respectively. Dry contacts can be triggered individually or in combination.