CQ-CE42

DMX/RDM Ethernet Light Controller

Welcome to the CQ-CE42 Series DMX/RDM Ethernet Light controller. The controller is programmed by computer and controlled stand alone. Through the software, you can control various DMX fixtures such as water pattern lights, beam lights, laser lights, LED flood lights, CCT LEDs, RGB, RGBW, RGBWY, etc., as well as various DMX devices such as DMX kinetic balls and DMX fountains.

Using the upgraded ESAPRO2 software, programming via a timeline, different luminaires will have separate timelines, and in the same project, you can write different lighting effects for different luminaires. At the same time, the lighting software also supports 16-bit fine dimming mode and HSB color mode to meet your lighting requirements to the greatest extent. The controller has offline automatic operation, APP wireless control (Android / iOS), timing control, UDP central control, sensors, dry contact triggering and other functions, which greatly meets the control needs of various lighting and music devices. With our RDM management software, you can also set up your RDM luminaires remotely.

1. Features

- Timeline programming, independent control of different luminaires

- Compatible with LED, CCT LED, RGB, RGBW, RGBWY, stage lights, laser lights, fountains

- 16Bit fine dimming mode

- RGB, HSB color mode

- Computer programming, real-time preview of lighting effects

- Light effects can be stacked in layers to combine more special light effects

- You can import videos, text and other content to mapping

- Multiple channel options: 2*512 / 3*512 / 4* 512 DMX channels

- 5 zones, each ZONE can be controlled independently

- 10 quick scene buttons, zone buttons

- Windows, Mac, APP programming with remote control

- Compatible with RDM remote device management

- Automatic run after power-on, power-on memory

- UDP central control, timing control, dry contact logic control

- 3 kinds of mounting structure: screw, DIN rail, 1U rack type

2. Specification

Input Power	5V DC (Screw) / 5V DC (USB)
Output	DMX512 / RDM
DMX Channels	2*512 / 3*512 / 4*512
Scene	5 zones, 99 scenes
Memory	TF Card (32G Max.)
OS	Win10, Mac，iOS, Android
Trigger	UDP, Dry contact, timing trigger, WiFi APP, RF Remote (Optional)
Connection	USB，Ethernet
Operation Temp.	0~50℃
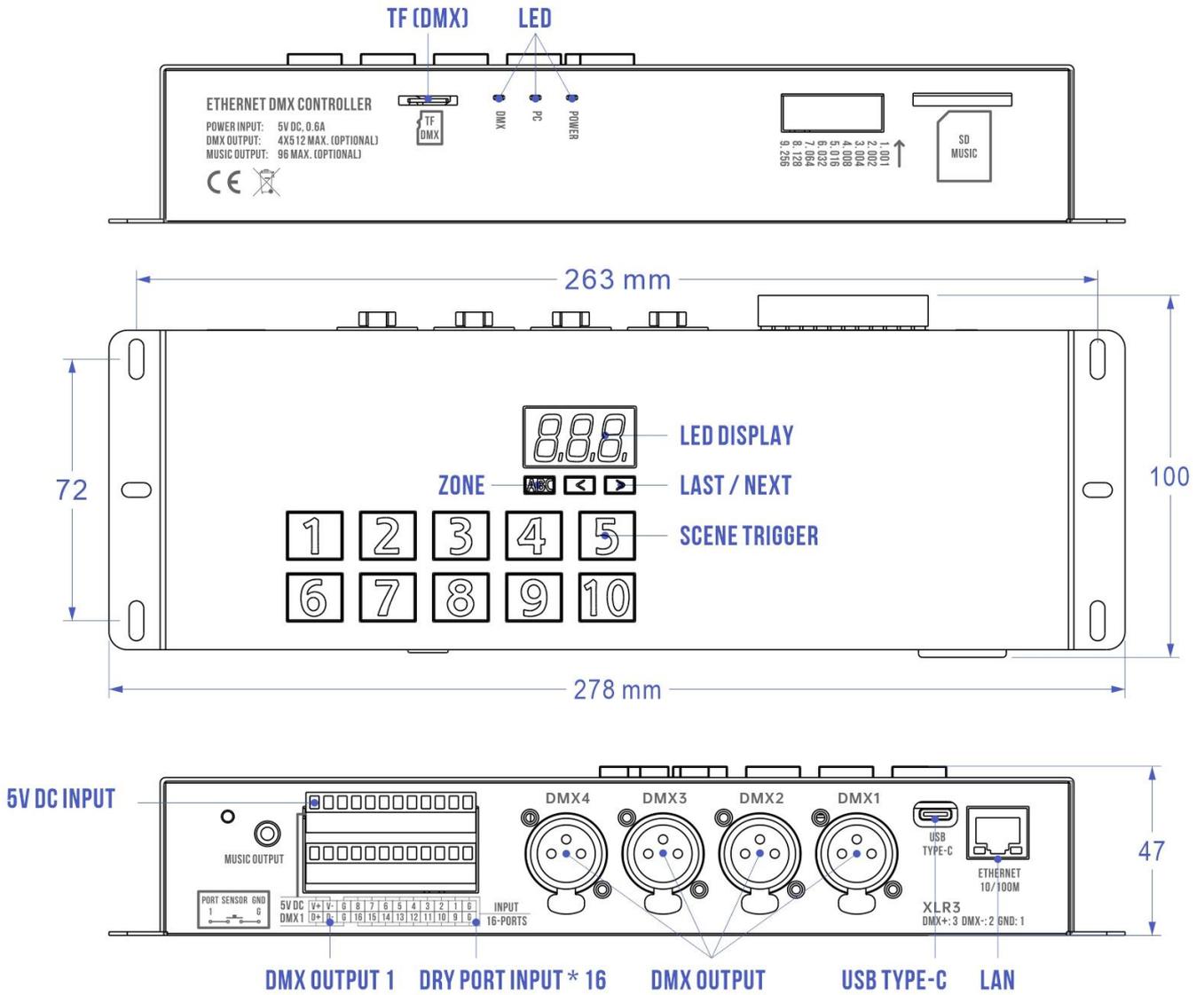
3. Dimensions

Model No.	DMX Channels	Scenes	Installation	Dimensions
CQ-CE42	2*512			
CQ-CE43	3*512	99	Screw	278x100x47mm
CQ-CE44	4*512			

4. 1U Rack Type
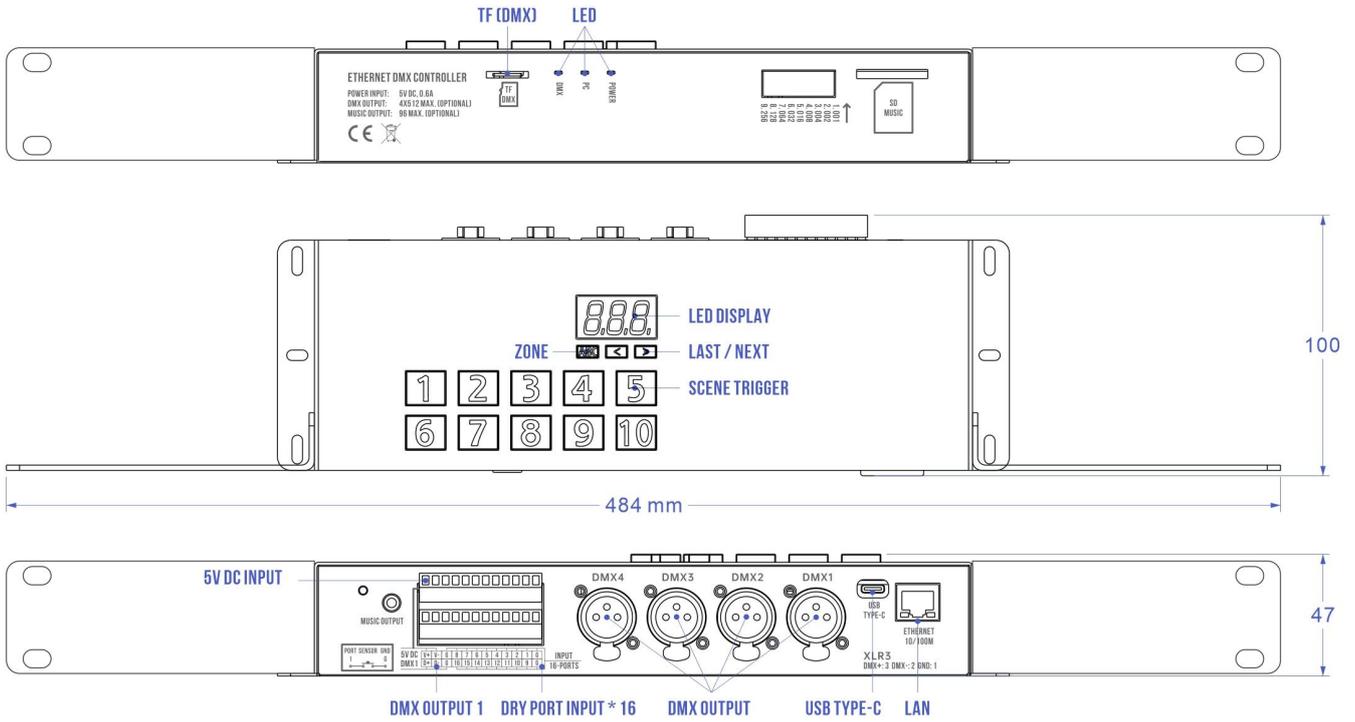
Model No.	DMX Channels	Scenes	Installation	Dimensions
CQ-CE42R	2*512			
CQ-CE43R	3*512	99	1U Rack	484x100x47mm
CQ-CE44R	4*512			

## 5. Terminals Port
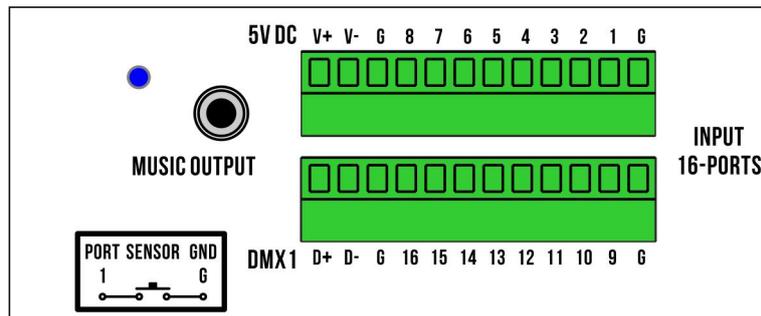
- **V+，V-**：Power Input, 5V DC (The controller can be powered either by terminals or by USB)

- **D+, D-, G**：DMX1 Ouput

- **1-16，G**：Dry contact

6. Wire Diagram
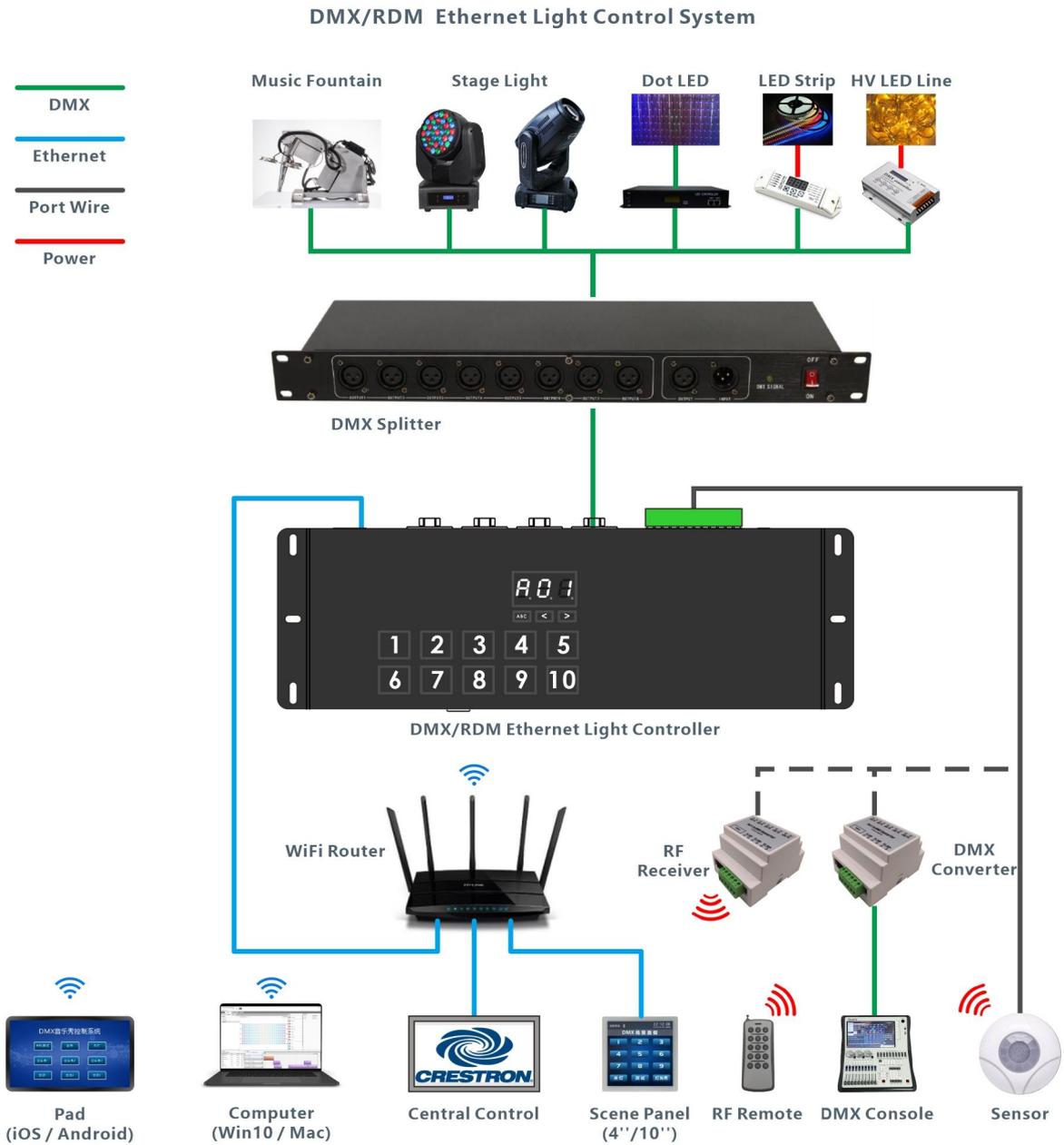
6.1 Programming

By connecting the DMX luminaire to the controller, connecting the controller to the computer (Win10/Mac) via USB or LAN, you can use the software to program and debug the luminaire. The online status can be directly controlled, real-time preview, output light control signal.

6.2 Stand Alone

In offline mode, the program has been downloaded to the TF card. No computer required, as long as the power is on, you can achieve an accurate replay of all pre-programmed lighting effects. You can also time trigger, dry contact trigger, sensor control, APP or UDP network control.

6.3 Central Control/Scene Panel/APP

In offline mode, you can also connect through the network cable, switch the scene through the central control host and the scene panel, or connect the central control system to link with other audio and video systems to achieve synchronous interpretation of sound and photoelectricity. In addition, you can also use our app to control the light effects on your iOS/Android device.

7. Software

ESAPRO 2 (Win10 / Mac)   DMX Software

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

Arcolis Remote Pro (iOS / Android)

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

RDM Manager (Windows / Mac)

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

8. UDP Central Control

CQ-CE42, Remote control can be carried out through the UDP network protocol to synchronize lighting with audio, video, lighting scenes, and other equipment, and integrate control. For UDP network control, the requirements are as follows:

1. Static IP address: use the Hardware Manager to set)

2. Port: 2430

3. Format: Hex

4. Protocol: 53697564693131410a01ffffffffffffffff01001b000103**01**0064

The contents of the red font: 00 - Scene 1, 01 - Scene 2, 02 - Scene 3, etc...

9. Dry Contact
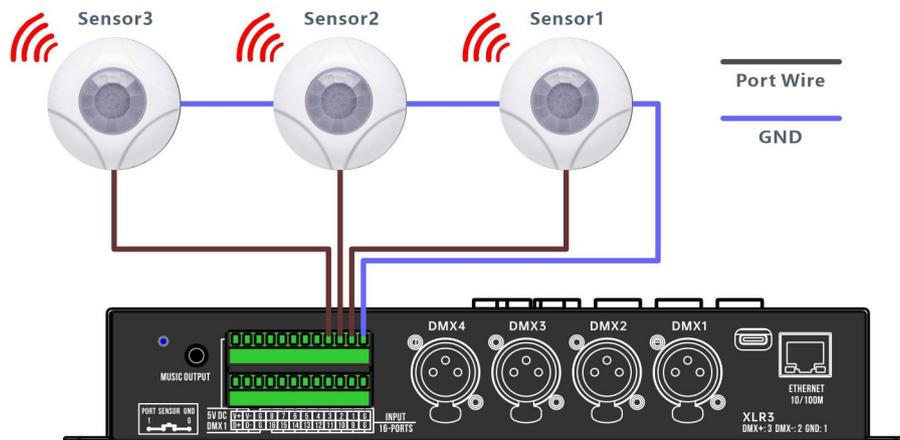
The master controller can receive dry contact trigger signals. When using, connect the sensor's GND in parallel to the "port G" of the controller, and then connect each dry contact signal to the P1~P16 port. Dry contacts can be triggered individually or in combination. CQ-CE42, with enhanced TCA advanced trigger function, can be set through the software, trigger logic, to achieve richer interactive control effects.