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# Product Specification

**NAME:** 2.4G wireless multi-channel dimmer

**MODEL:** QL-CTL-U4



## Summarization

2.4G wireless multi-channel dimmer is a kind of controller which aims at each channel dimming separately, through dimming separately to each channel of controller, can achieve matching of different colors, thus a different color can show up. This controller has high dimming precision, with effect common dimmer can't achieve.

## Main technical parameters

### Controller

Working temperature: -20-60°C

Power supply voltage: DC 12~24V

Output voltage: DC12-24V

Output: 4 channel

Connect way: common anode

External dimension: L120\*W62\*H25mm

Packing size: L185\*W145\*H55mm

Net weight: 293.3g

Gross weight: 376.7g

Static power consumption: <0.54W

Output current: < 4A(each channel)

Output power: 192W/12V 384W/24V

Working frequency: 880Hz

Dimming mode:PWM

### Remote control

Working temperature: -20-60°C

power supply mode: AAA \* 2

supply voltage: 1.5V \* 2

transmitting frequency:2.4Ghz

standby power consumption: 0.006mW

standby current: 20.3uA

working current: 236uA

emission current:10mA

remote distance: about 30m

standby time: 6 months

External dimension: L110.3\*W51.5\*H21.3mm

weight:54.2g

Light series:143 level

### External Dimension

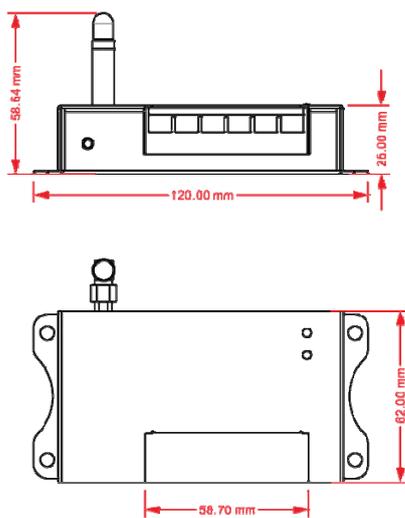


Figure 1: controller dimension figure

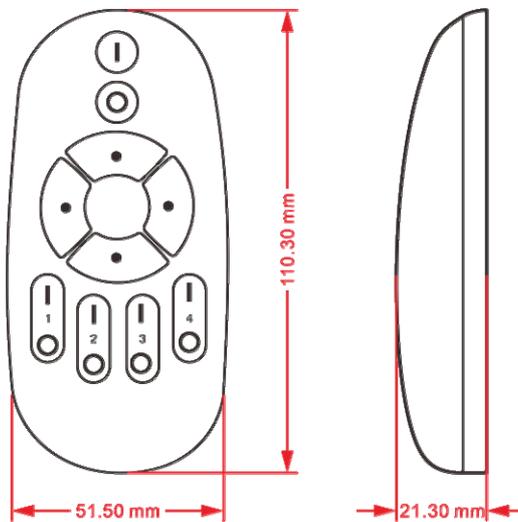


Figure 2: remote control dimension figure

## Interface Specifications

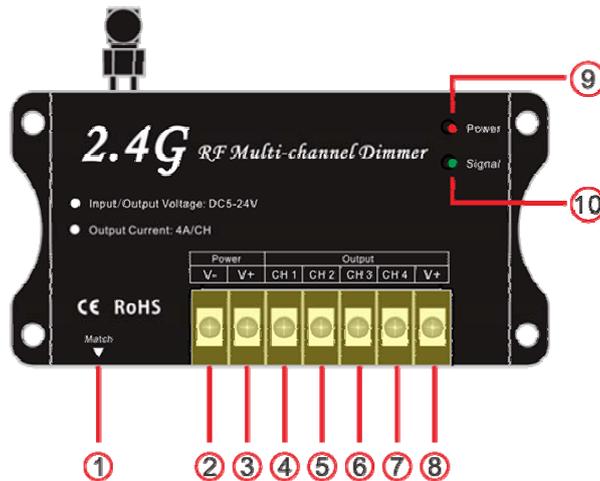


图 3

① The code button: Match. Usage: Press and hold "Match", turn on the power, and press the ON key, the load and RF signal indicator flicker 3s, it shows match code succeeds, otherwise repeat the operation.

- ② Power input V+                      ③ Power input V-                      ④ The first channel Input
- ⑤ The second channel Input                      ⑥ The third channel Input
- ⑦ The fourth channel Input                      ⑧ common port V+

## Key description of remote control

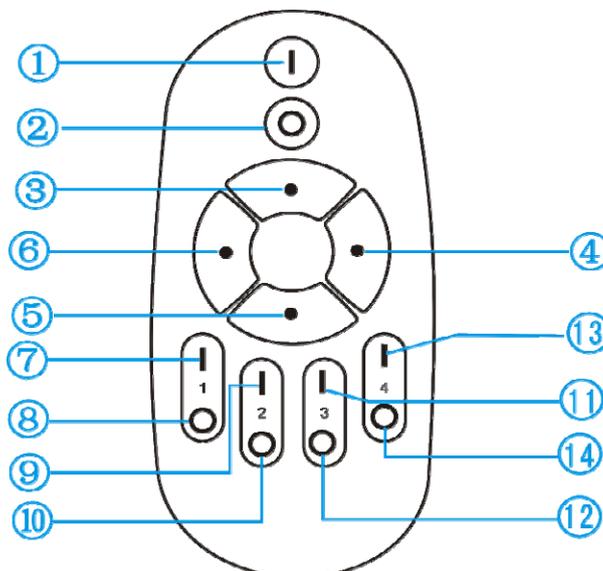


Figure 5

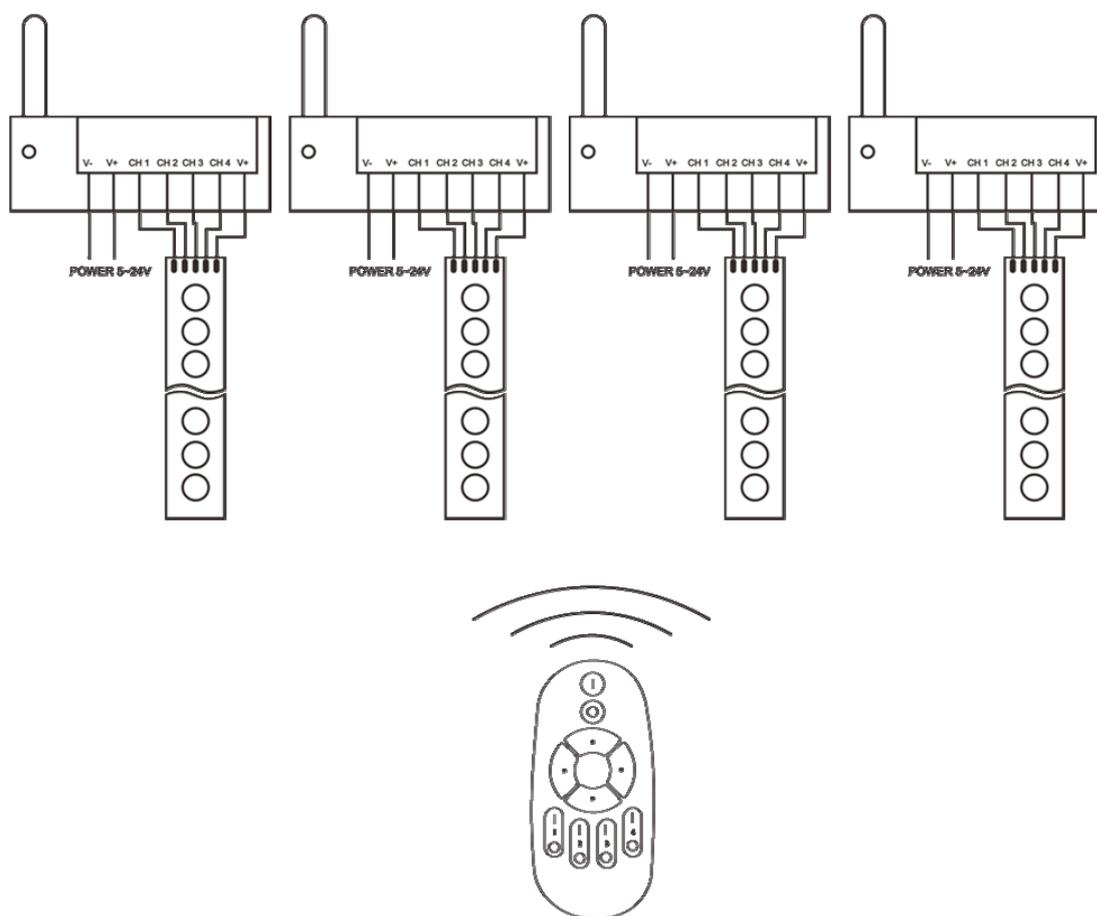
① Main on switch: When you press the code button on the controller, long press 3S can match the code. RF signal Indicator and load flicker 3s, showing code operation is successful. Short press is opening the lamp.

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- ② Main off switch: Short press closes all the lamp.
  - ③ custom scenario 1: Long press is saving the current state of lamp to custom scenario 1, when long pressing, RF signal indicator flicker 3s showing it is successfully saved, short press is to open.
  - ④ custom scenario 2: function as above.
  - ⑤ custom scenario 3: function as above.
  - ⑥ custom scenario 4: function as above.
  - ⑦ The first channel on: short press to open the state of the first channel separate closed last time, press at the first time is to light the first channel. Only after turning on the first channel, it has long press function( that is to short press at first to open the first channel), long press is to increase the brightness of the first channel, in the process, the RF indicator will flicker, when the brightness of first channel is at its maximum, the RF indicator won't flicker any more.
  - ⑧ The first channel off: short press to save the state of the first channel and separate close the first channel, press at the first time is to light the first channel. Only after turning on the first channel, it has long press function( that is to short press at first to open the first channel), long press is to decrease the brightness of the first channel, in the process, the RF indicator will flicker, when the brightness of first channel is at its minimum, the RF indicator won't flicker any more.
  - ⑨ The second channel on: short press to open the state of the second channel separate closed last time, press at the first time is to light the second channel. Only after turning on the second channel, it has long press function( that is to short press at first to open the second channel), long press is to increase the brightness of the second channel, in the process, the RF indicator will flicker, when the brightness of second channel is at its maximum, the RF indicator won't flicker any more.
  - ⑩ The second channel off: short press to save the state of the second channel and separate close the second channel, press at the first time is to light the second channel. Only after turning on the second channel, it has long press function( that is to short press at first to open the second channel), long press is to decrease the brightness of the second channel, in the process, the RF indicator will flicker, when the brightness of second channel is at its minimum, the RF indicator won't flicker any more.
  - 11 The third channel on: short press to open the state of the third channel separate closed last time, press at the first time is to light the third channel. Only after turning on the third channel, it has long press function( that is to short press at first to open the third channel), long press is to increase the brightness of the third channel, in the process, the RF indicator will flicker, when the brightness of third channel is at its maximum, the RF indicator won't flicker any more.
  - 12 The third channel off: short press to save the state of the third channel and separate close the third channel, press at the first time is to light the third channel. Only after turning on the third channel, it has long press function( that is to short press at first to open the third channel), long press is to decrease the brightness of the third channel, in the process, the RF indicator will flicker, when the brightness of third channel is at its minimum, the RF indicator won't flicker any more.

13 The fourth channel on: short press to open the state of the fourth channel separate closed last time, press at the first time is to light the fourth channel. Only after turning on the fourth channel, it has long press function( that is to short press at first to open the fourth channel), long press is to increase the brightness of the fourth channel, in the process, the RF indicator will flicker, when the brightness of fourth channel is at its maximum, the RF indicator won't flicker any more.

14 The fourth channel off: short press to save the state of the fourth channel and separate close the fourth channel, press at the first time is to light the fourth channel. Only after turning on the fourth channel, it has long press function( that is to short press at first to open the fourth channel), long press is to decrease the brightness of the fourth channel, in the process, the RF indicator will flicker, when the brightness of fourth channel is at its minimum, the RF indicator won't flicker any more.

### Typical Application



### Remark

1. Connect the load wire at first, following by the power wire; **Please ensure short circuit can not occur between connecting wire before you turn on the power;**
2. The supply voltage of controller ranges in DC12-24V, it may burn out the controller once exceed the voltage.