

LED Controller Series
New Version Color Touch Wheel RGB Controller
CL-TCWCON

COOLIGHT™
Lighting your life

The New version color touch wheel RGB controller **CL-TCWCON** is specially designed for controlling RGB LED strips color changing. The remote is professional designed with a touch color wheel, it enables easy remote operation with RF(Radio Frequency) system.

When the touch color wheel works, you can use your finger to touch the touch color wheel to choose the color you like.

This New version RGB controller have memory when power cutting.



Technical parameter:

The controller:

- *Working voltage: DC 12V/24V;
- *Max output current: 6A each channel;
- *Max stand-by current:10mA;
- *Working Temperature: -20~60℃

The Remote with touch color wheel:

- *Battery for the remote: 1.5V*3 AAA battery;
(Batteries are not included when delivery)
- *Stand-by Power consumption: max 100uA, normally a set of new batteries can use for 9-12 months;

Hongkong Coolight Opt-Ele Co.,Limited

Address: 3-4/F., Bldg C, Chuangfu Science & Technology park, Shiyan, Shenzhen, China (518108)

Tel: +86-755-8452 8176 Fax: +86-755-8452 8173 E-mail: sales@coolight.com.hk

Website: www.coolightled.com www.globalsources.com/coolight.co

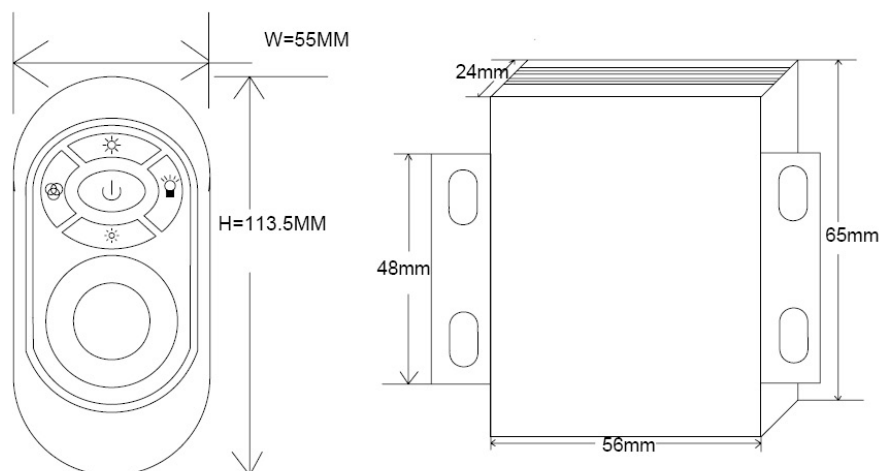
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*Wireless frequency: 433.92MHz, integrated chip design;

*Emission power: < 10mW;

*Remote control distance: open area 20-30M.

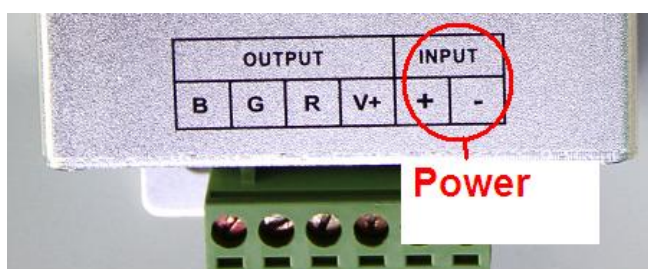


Interface Specification:

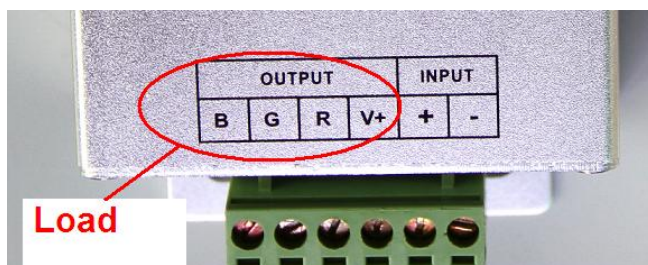
Power input interface (the first way optional):



Power input interface (the second way optional):



Load output interface:



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Direction for use

1. Connect the load wires at first, then the power; **Please ensure there is no short circuit before you turn on the power;**
2. There are 5 buttons and a touch color wheel on the remote, And the functions are as following:



2.1 **Button 1-** Red Button: Turn on and Turn off.

2.2 **Button 2-**  Automatic color changing button : press to show the automatic color changing modes, there are 15 color changing modes.

2.3 **Button 3-**  White and multi-color lighting: press to choose white lighting or multi-color lighting, when you press to choose multi-color lighting, the touch color wheel will be work.

2.4 **Button 4-**  Brightness/speed Increase: Press to increase the brightness or speed, total 8 grades.

2.5 **Button 5-**  Brightness /speed decrease: Press to decrease the brightness or speed, total 8 grades.

2.6 Touch color wheel: Touch color ring is a high reliability touch inductor, only be effective for the body fingers. In the multi-color lighting mode, when your finger touch the touch color wheel, it will control the RGB lighting show the corresponding color.

3. Matching the remote and the controller:

3.1 Within 3 seconds of connecting power to controller, press one time **Button 4-**  on the remote, the RGB LED strips will blink 3 times, The remote and controller are successful matched.

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3.2 One remote can controll several controllers, Please match the remote and controllers one by one as above way.

3.3 Clear the matching: when you don't want to use the remote to control the controller, within 3 seconds of connecting power to controller, press **Button 4-**  5 times quickly, the RGB LED strips will blink 6 times quickly, It means the mathching is cleared successfully, the remote cannot control the controller anymore.

3.4 The matching will be still exist after changing batterys, you don't need to match again.

4. This RGB controller have memory when the power cut, if you connect the power to controller again, it will show the color mode before power cutting.

5. Automatic color changing functions as following form:

S/Q	Patterns	Brightness	Speed
1	Automatic color gradual changing	Changeable	
2	Tri-color jumpy changing	No	Changeable
3	7-color jumpy changing		Changeable
4	Tri-color gradual changing		Changeable
5	7-color gradual changing		Changeable
6	Red blinking	Changeable	
7	Blue blinking	Changeable	
8	Purple blinking	Changeable	
9	Green blinking	Changeable	
10	Yellow blinking	Changeable	
11	Cyan blinking	Changeable	
12	White blinking	Changeable	
13	Red and Blueblinking		Changeable
14	Green and Blue blinking		Changeable
15	Red and Green blinking		Changeable

Caution:

1. When changing the batteries, please don't touch or use the palm to cover the color wheel within 10 seconds. If the color wheel doesn't work after changing the batteries, please take off the batteries, and reload again after 10 seconds.

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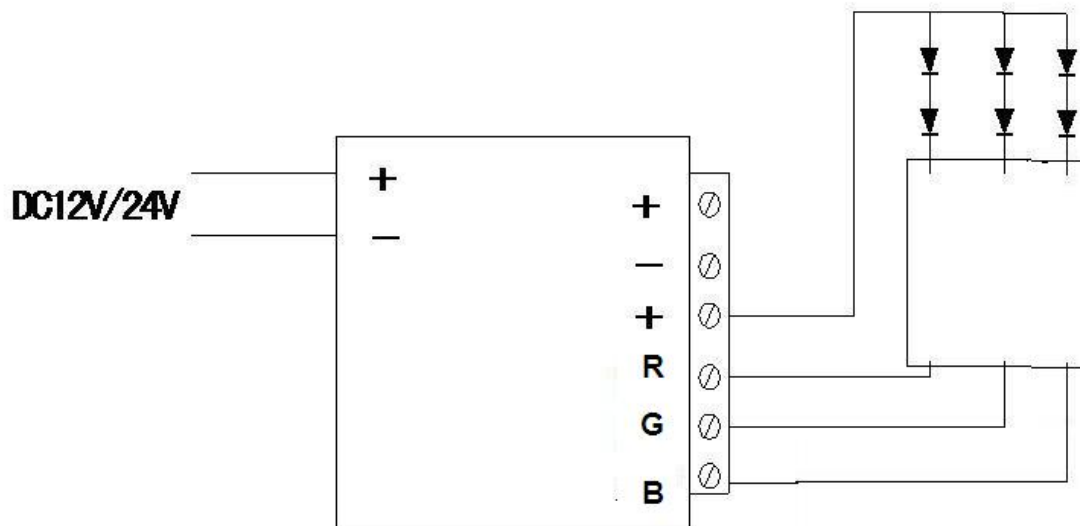
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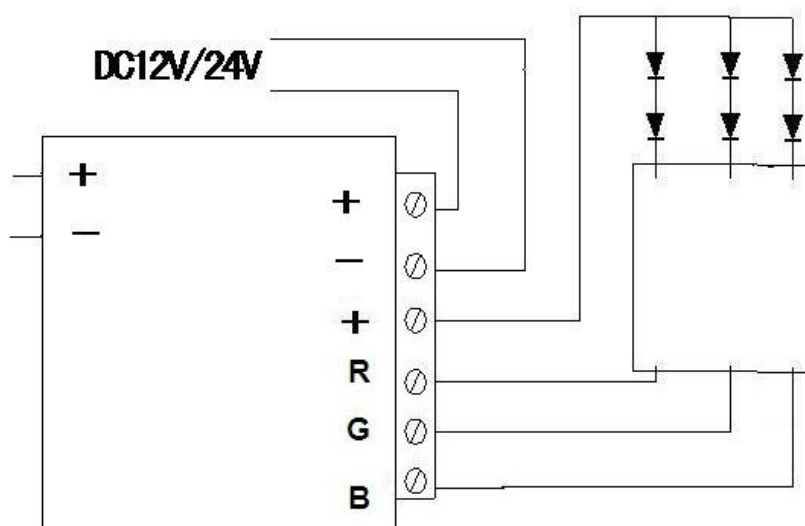
2. We put the antenna internal the controller, please keep the controller away from the metal goods when installing, in order to get a far receiving distance.

Connection diagram:

Typical Application circuit 1:



Typical Application circuit 2:



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