Model number：CG03

Products name：2.4G – RGB touch screen controller

Products specification

Product description

This   is a high-performance 2.4G RGB LED touch remote controller, which is adopting the most advanced PWM control technology, controlling all RGB LED products with Four lines and three circuits(common anode),owning 640 thousand colors and 20 automatical changing modes to choose.

Also, It has the memory function(that is to say, the previous settings will be resumed when power on again). It is widely used in LED RGB strip light, LED module, LED lamphouse and so on. With the technology of the 2.4G high frequency wireless remote control, it has the characteristics of low power consumption, long distance transmission, and strong anti-interference ability ,high speed telecommunications, etc.

The remote looks fashionable and elegant , with simple and practical functions of color changing and brightness dimming, the capacitive touch screen design makes the remote easy to use. The controller is using modular design, the connection mode is easy to compatible with all kinds of form a complete set of lamps and lanterns.

Technical Parameters

Working temperature: -20-60℃
Input voltage: DC12V~24V
Output: 3 circuit
Connection mode: Common anode
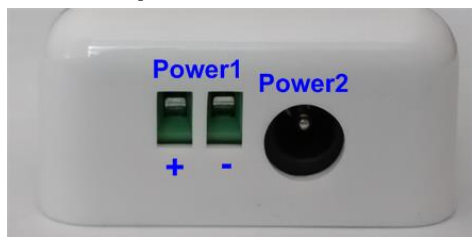Controller size: L85×W45×H22mm
Net weight: 85g, Gross weight:125g
Static power consumption: <1W

Output current: <6A/ch
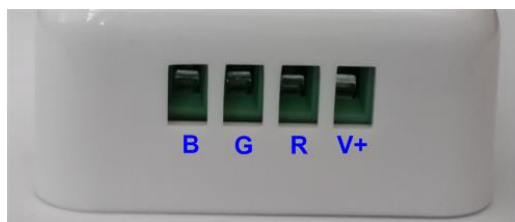Output power: 12V:<216W, 24V:<432W

Connection description:

Power input interface:

With screw plugs and DC on the input interface of the bridge

Load output interface:

Used to plug with screw as load output interface

Instructions

The remote parameter

Items	Parameter	Remark
Supply Voltage	3V	2* AAA battery
Transmission frequency	2400-2483.5MHz	
Modulation method	GFSK	
Transmission power	6db	
Standby power consumption	5uA	
Remote control distance	20-30m	
External dimension	110*55*20mm	

Function information:

1. Use the 2.4G radio frequency wireless to control, it no need to point at controller, can around the obstacles to control.
2. About 20-30m empty remote control distance.
3. Remote control has touch function.

Control methods:

1. Connect the load line firstly, then connect the power line; make sure all lines no short circuit before power on.
2. When it's ON state, touch ring can become quick and smooth changes on colors, "mode+" and "mode-" have 20 different mode choices, modes details as below:

Program List (for "Mode+" and "Mode-")

No.	Mode	Brightness state	Speed state
1	Static white color	Adjustable	Unadjustable
2	White color gradual changes	Adjustable	Adjustable
3	All colors gradual change	Adjustable	Adjustable
4	Red/green/blue 3 colors gradual change	Adjustable	Adjustable
5	7 colors jump to change	Adjustable	Adjustable
6	3 colors jump to change	Adjustable	Adjustable
7	Red/green jumps to change	Adjustable	Adjustable
8	Red/blue jumps to change	Adjustable	Adjustable
9	Blue/green jumps to change	Adjustable	Adjustable
10	White color frequently blinks	Adjustable	Adjustable
11	White color glitters	Adjustable	Adjustable

12	Red color frequently blinks	Adjustable	Adjustable
13	Red color glitters	Adjustable	Adjustable
14	Green color frequently blinks	Adjustable	Adjustable
15	Green color glitters	Adjustable	Adjustable
16	Blue color frequently blinks	Adjustable	Adjustable
17	Blue color glitters	Adjustable	Adjustable
18	Yellow color frequently blinks	Adjustable	Adjustable
19	Yellow color glitters	Adjustable	Adjustable
20	Circulation mode		

3. When the state is in a color wheel, press "Mode+"or "Mode-" will back to the last of selected mode.
4. When long press "Speed+", "Speed-", "Brighteness+" or "Brighteness-", it can quickly adjust their levels accordingly.

● **Programming (code matching and code clearing):**

The item already coding between remotes and light before shipping, one remote control multiple LED lamps/strips or use a new remote control need coding operation as follows.

Code matching:

For a new kit (remote & controller), the remote can work only when it is programmed to the controller. Please follow the below instructions:

Confirm it is correctly connected between power supply, LED controller and LED load. Switch off the power, then switch on again, and press key "Speed+" once (within 3 seconds) the moment you see the light is on. The LED light flash twice slowly, then it means code matching is successful.
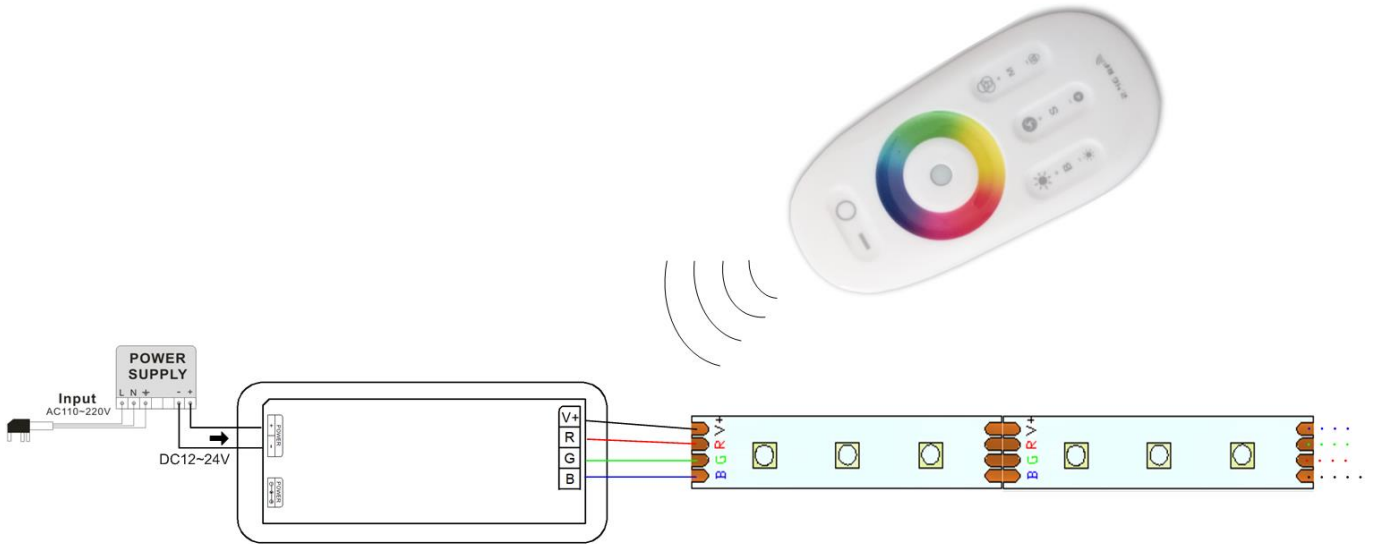
Code clearing:

The code can be cleared as needed. The kit (remote & controller) will stay in the original state after code clearing, and it can work again when code rematching is done. Pleases follow the below instructions:

Confirm it is correctly connected between power supply, LED controller and LED load. Switch off the power, then switch on again, and long press key "Speed+" once in 3 seconds, at that moment you see the light is on. The LED light flash nine times swiftly, then it means code clearing is successful.

● **Attention:**

1) The regular product for sale is a kit (remote and controller). The user can re-programme freely as needed. One remote can control countless controllers, but one controller can only be controlled by four remotes (Max).
2) Please check the battery installation and controller (totally discharge the power), when you programme after switching off and switching on.

Connection diagram

⚠️ **Cautions:**

1、This product only use on supply voltage DC12-24V, do not input on other voltage.

2、The lead wire shall be according to the wiring diagram of the color and label, connect correctly.

3、This product can not be overloaded.

4、Please keep your finger away from the touch ring when installing the batteries, to improve its sensitivity, and use the remote (3 seconds later) after the batteries are installed. Please reinstall the batteries, if the touch ring is found low-sensitivity.

5、Do not put the controller in a wide range of use metal area, or near a strong electromagnetic wave area, otherwise it will seriously affect the communication distance.