Model Number：WG02

Product name：2.4G –RGBW Touch screen LED controller

Products specification

Product Description

   This is a high-performance RGBW LED touch remote controller, adopting the most advanced PWM control technology, controlling all RGBW LED products with 5 lines and 4 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 RGBW strip light, LED module 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 .

Technical Parameters

The controller parameters
Working temperature: -20-60℃
Input voltage: DC12V~24V
Output: 4 circuit
Connection mode: Common anode
Controller size: L100×W45×H23mm

Net weight: 85g   Gross weight:120g
Static power consumption: <1W
Output current: <6A/ch
Output power: 12V:<288W, 24V:<576W

Connection description:

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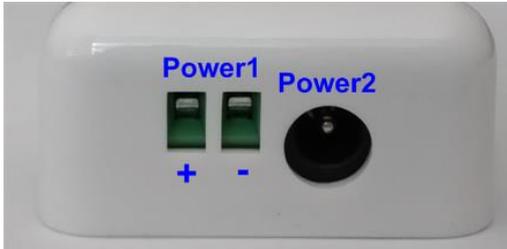
With screw plugs and DC on the input interface of the bridge

Load output interface:
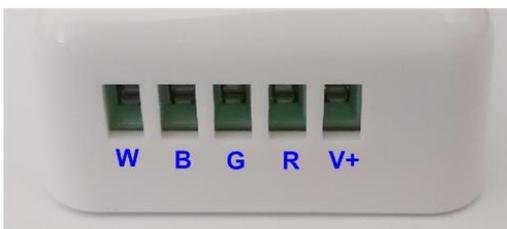
Used to plug with screw as load output interface

Instructions of remote control

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	

ON ------ ○ ------ OFF

Indicating light ------ Color ring

Brightness+ ------ Mode+

Brightness- ------ Mode-

Speed+

Speed-

2.4G RF
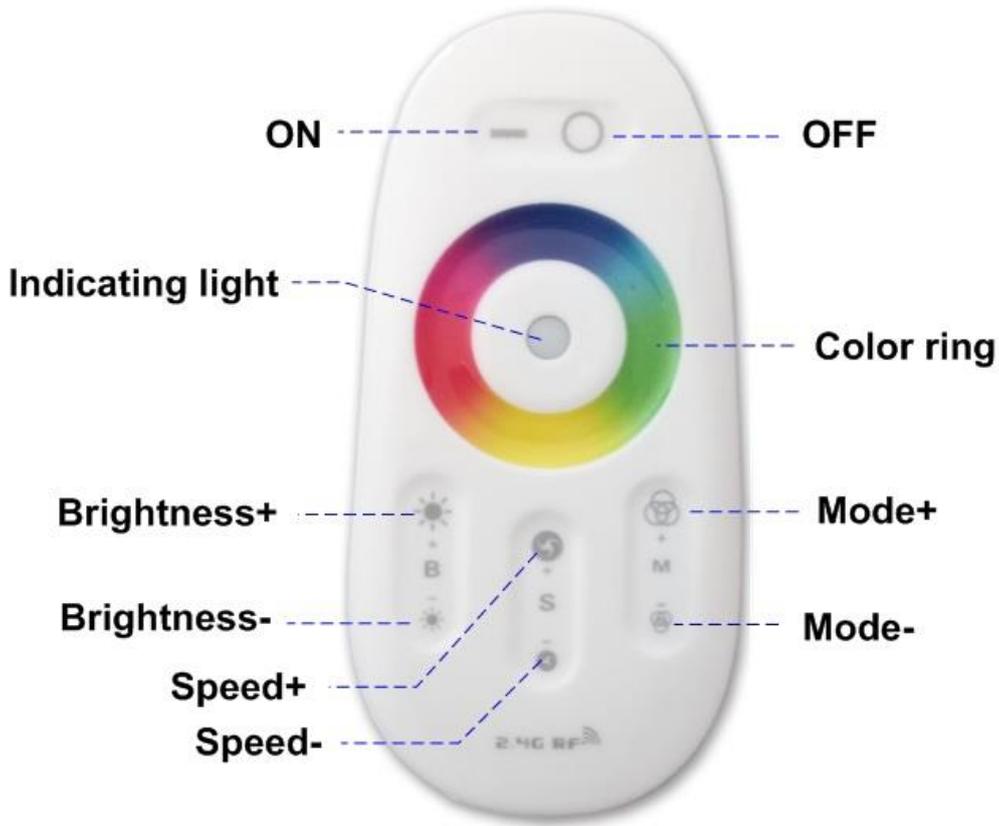
Instructions:

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 15 different mode choices, modes details as below:

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

No.	Mode	Brightness state	Speed state	Remark
1	Color automatically	Adjustable	Unadjustable	Automatically choose color
2	Static white	Adjustable	Unadjustable	Only white color
3	Colorful+ Static white	Adjustable	Unadjustable	Automatically choose color, only brightness adjustable
4	All colors gradual change	Adjustable	Adjustable	Only white color is off
5	4 colors gradual change	Adjustable	Adjustable	
6	4 colors jump to change	Adjustable	Adjustable	
7	7 colors jump to change+ Static white	Adjustable	Adjustable	

8	Red/white jumps to change	Adjustable	Adjustable	
9	Blue/white jumps to change	Adjustable	Adjustable	
10	Green/white jumps to change	Adjustable	Adjustable	
11	Red color frequently blinks	Adjustable	Adjustable	
12	Blue color frequently blinks	Adjustable	Adjustable	
13	Green color frequently blinks	Adjustable	Adjustable	
14	White color frequently blinks	Adjustable	Adjustable	Only white color
15	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 using metal area, or near a strong electromagnetic wave area, otherwise it will seriously affect the communication distance.