

# product specification

**Product name: RF touch remote control RGB controller**



## Introduction:

This FR touch remote control RGB controller adopts the advanced capacitive touch technology, used to control the LED as light source through the resistance current of lamps and lanterns, such as: led strips/ bars, etc. This controller adopts the advanced RF touch remote control, can choose different changing mode, adjust the rate of changing, adjust the static color brightness, turn on/off by the remote control. This controller with the save function when power off, next time to used it, will start with the model it save. The user can choose the changing model according to their preference by touching the remote control, its built-in 7 kinds of static color, jump, fade, strobe, flow, automatic cycle and others effect. Agile wiring, easy connection and simple to used is the representative advantages of this controller. Besides, This controller is with short circuit protection function, when meet short circuit, its green indicating light will be twinkling in a fixed frequency to indicate the user. what's more, Its with automatically restore function after short circuit protection, this personalized design can make the user experience another different sense.

## main characteristic:

- ① Novel,fashionable,unique,noble appearance ,High sensitivity with good feeling.
- ② The touching ring is sensitive, the RGB color wheel is Very intuitive appear in the touch ring,user can choose the color they prefer easily.Beside, this remote can be touch single point or to touch continually to realize choosing the color .
- ③ Low power consumption, long lifespan, can be touch infinite times , overcome the shortcomings of traditional key short lifespan.
- ④ With auto Resting function,it will be turn into Resting state after 20 seconds with touching the remote control,this function can Realize saving electricity and prolong the battery lifespan.
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- ⑥ Stable remote,long remote distance.

## Technical parameters:

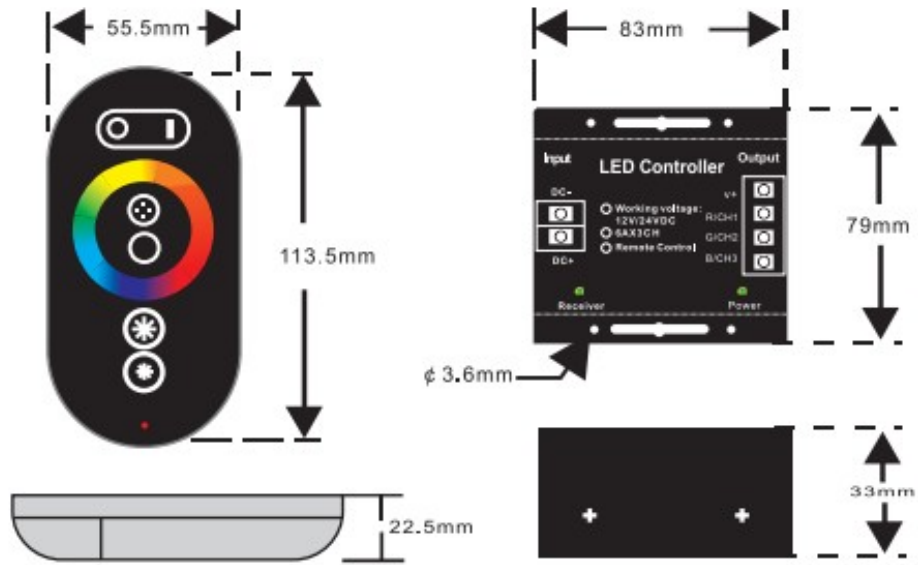
### Controller:

Working temperature:  $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$   
Supply Voltage: DC 12V-24V,  
Output: 3 channels N-MOS Drain open output  
Connection mode: common anode  
Static power consumption:  $<0.5\text{W}$   
Output current:  $6\text{A} * 3\text{Ch} = 18\text{A}$  6A(Each channel)  
controller dimension: : L83 X W79 X H33 mm  
Package size: L205XW135XH45mm  
Net Weight: 168g  
Gross Weight: 392g

### Remote Control:



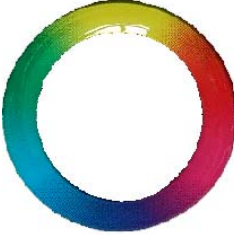


Working temperature:  $-30^{\circ}\text{C} \sim +60^{\circ}\text{C}$   
Power supply mode: 2pcs NO.7 Battery  
Supply voltage: 3V  
Static power consumption:  $<0.09\text{mW}$   
Static current: 10uA  
Operating current: 15mA  
Remote-controlled distance:  $>20\text{M}$   
Stand-by time: 6 months

## External dimension:



## Remote control Function instruction:



Button	Function
	The left one is OFF button,the right one is ON button, At any time just need to gently touch this two buttons,than can make it open or closed.
	The Above one is mode + Button, at any state just touch this key to change for the former mode.
	The below one is mode - Button, at any state just touch this key to change for the latter mode.
	Touch the ring as shown,can choose static color by touching the color wheel. just touch ring,it will output the corresponding color at any time.
	in Static mode, brightness +, increase output luminance;in Dynamic mode, speed +, to speed up the rate of change.
	in static model,brightness-,Reduce output luminance; in Dynamic mode, speed -, slow down the rate of change.

**changing models are as below:**

NO.	Model	Remarks	NO.	Model	Remarks
1	Static red	Brightness adjustable	10	Three Color fade	Speed, brightness are adjustable
2	Static green		11	Three color flow	
3	Static blue		12	seven Color fade	
4	Static yellow		13	Seven color flow	
5	Static purple		14	Three-colors flash frequency	
6	Static cyan		15	Seven-colors flash frequency	
7	Static white		16	Three-colors blasting flash	
8	Three color jump	Speed, brightness are adjustable	17	Seven color blasting flash	
9	Seven color jump		18	Automatic mode	

## Connection Instruction:



DC+: For power input + (power supply voltage 12v-24v)

DC-: For power input -

V+: For Load Common anode

R/CH1: Load output Red channel

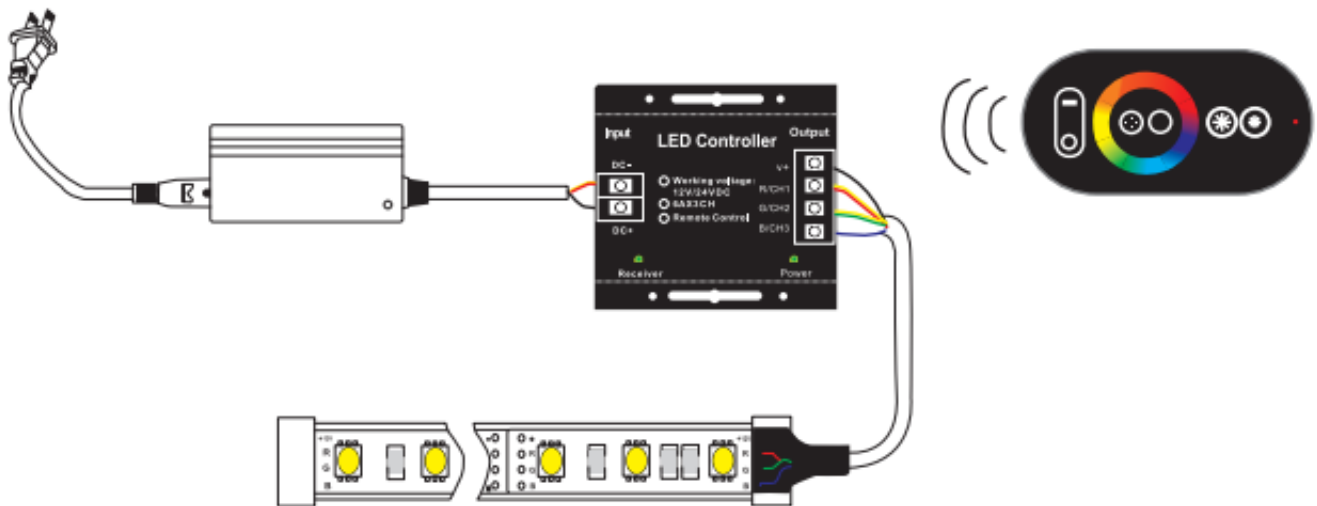
G/CH2: Load output Green channel

B/CH3: Load output Blue channel

Power: Red indicating light is for power light, when the power on it will be turn on.

Receiver: Green indicating light, normally it will be in the state of OFF, it will be twinkle when received Signal From the remote. When the controller output meets short circuit, the green indicating light will be twinkle in a Fixed frequency to indicate the user.

## Typical Applications:



### Notes:

1. The use of power and load voltage, current, power must be consistent with the product.
2. Please make the connection like the diagram above (to connect the load wire first, than to connect with the power), In the process of operation please avoid short circuit.
3. This product warranty is 12 month, But not including the damage by people and other reason caused by over load working.