

## Product Specifications

**Name:** Waterproof wireless low voltage RGB controller

**Model:** RF163



### I. Summarization

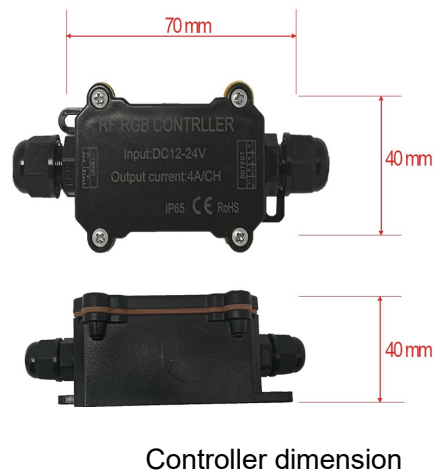
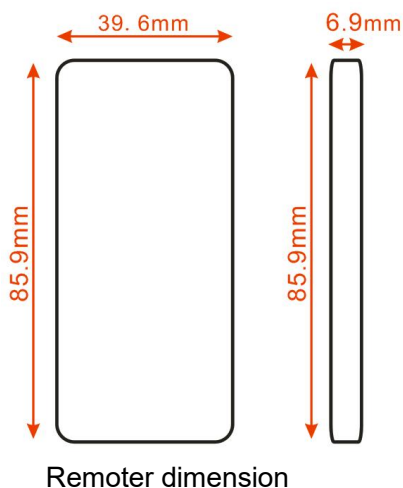
RF controller adopts the advanced micro control unit, with 433MHz wireless signal to do the controlling. It is used for controlling a variety of lamp whose source of light is LED. For instance, point source of light, flexible light strip, wall washer lamp, glass curtain wall light and so on. It has many advantages such as low price, easy connection, simplicity to use and others, etc. According to the customers' needs, it can realize gradual change, fadein dimming, jumping change, strobe, quick flash and other kinds of model. It is easy to take, simple to use, etc.

### II. Technical parameters

2. 1Working temperature:  $-20-60^{\circ}\text{C}$
2. 2Supply voltage: DC12-24V
2. 3Output: 3 channels
2. 4 Connection mode: common anode

- 2. 5Controller dimension: L70×W40×H40mm
- 2. 6Remoter dimension: L85.9×W39.6×H6.9mm
- 2. 7Packing size: L200\*W147mm
- 2. 8 Net weight: 95g
- 2. 9Gross weigh: 140g
- 2. 10Static power: <0.5W
- 2. 11Output current: <4A (each channel)
- 2. 12Output power: 12V<144W, 24V<288W

### III. External Dimension



### IV. Interface Specification

Connection mode 1



The power input terminal is red connected to the positive terminal and black connected to the negative terminal

Connection mode 2





The red, green and blue output terminals of the load are connected to RGB, and the black terminal is connected to the positive terminal

(Note: the connection can be directly connected with the provided load line, or the shell can be opened and connected to the terminal inside the controller)

## V. Direction for use

### A. Match code operating instructions:

Power on controller in 3 seconds, press  key can  match code, the load light will flash 3 times when match code successfully, it only can match the code 1 time before power off. If you need match code again that need to power off and than power on.

### 2. Remote instructions:

This remote have 17 buttons: :



Turn on/off key.



Automatic play key, press this key, each dynamic mode will run three times in turn.



Switch to static color mode from dynamic mode, and change the static color forward/reverse direction.



Switch to static color mode from dynamic mode, and change the brightness forward/reverse direction, it has 5 levels.



Switch to dynamic mode from static color mode, and change the dynamic mode forward/reverse direction.



Switch to dynamic mode from static color mode, and change the speed forward/reverse direction, it has 10 levels.



Press the color key in any mode to jump to the corresponding seven static color

modes



Short press: Switch to white in normal mode, exit line order mode in line order setting mode,

long press: switch to line order setting.

Switch the output line sequence:

The default output line order of the controller is +RGB. If the LED lamp line order is different, the direct color key does not match the LED color. In this case, the user can adjust the output line order by the following steps:

- 1) Long press the white button until the load light flashes. At this time, press other buttons of the remote control and nothing will happen
- 2) Press the red button to switch colors until the load lamp turns red
- 3) Press the green button again to switch colors until the load light turns green
- 4) Finally, press the white button for 3 times to exit the line sequence setting mode, and the line

sequence setting is completed

3、Based on the premise that the line order is RGB, the mode table is as follows:

Dynamic mode	1	Red quick flash	2	Green quick flash	3	Blue quick flash
	4	Yellow quick flash	5	Cyan quick flash	6	Purple quick flash
	7	White quick flash	8	Three colors quick flash	9	Seven colors quick flash
	10	red colors flash	11	Green colors flash	12	Blue colors flash
	13	Three color jump change	14	Seven colors jump change	15	red fade in and fade out
	16	Cyan fade in and fade out	17	Green fade in and fade out	18	Cyan fade in and fade out
	19	Blue fade in and fade out	20	Purple fade in and fade out	21	White fade in and fade out
	22	Three colors fade in and fade out	23	Seven colors fade in and fade out	24	Seven colors gradual changing
Static mode	1	Red	2	Orange	3	Dark yellow
	4	Yellow	5	Light yellow	6	Green
	7	Light green	8	Cyan	9	Light blue
	10	Sky-blue	11	Blue	12	Dark blue
	13	Blue-purple	14	Purple	15	Brown
	16	White	17	Ivory	18	Pink-white
	19	Yellow-white	20	Blue-white		

## VI. Typical Applications

