RGB/RGBW 2 in 1 LED MUSIC controller with RF 24 key remote control

Controller adopts the advanced micro control units; it is used for controlling a variety of LED light. For instance, point source of light, flexible light strip, wall washer lamp and so on. It has many advantages such as good appearance, easy connection and simplicity to use. Adopts RF 24 key remote control to ON/OFF, choose colors/ dynamic modes. As the III generation product, it achieves the perfect music control effect and user experience, basic on the audio analysis technology and more user-friendly remote control design. Especially, it is integrated 2 optional programs for different color type LEDs, contains RGB and RGBW. It means only one item stock for 2 types applications.

Product Features:

- This product is a constant voltage controller, the standard product power supply voltage 5-24V is a wide voltage, and the power supply in this range can be used universally;
- The output is 3/4 channels for RGB/RGBW, the maximum current is 3*5A(RGB)/4*4A(RGBW);
- With power-off memory storage function;
- Adopts RF 24-key wireless remote control, the maximum distance can reach 20 meters;
- Adopts color balance key to achieve 1024 colors and can be saved as DIY modes;
- Contains 3 types music control modes: Sound control I (FT): fast track, Sound control II (MT): my track, Sound control III (CT): cool track; different mode for different music.
- Both remote control and receiver are 2 in 1 for RGB and RGBW, one product for 2 types of LED strips;
- Short circuit protection function;
- Output current: 3chs * 5A (RGB), 4chs * 4A (RGBW);
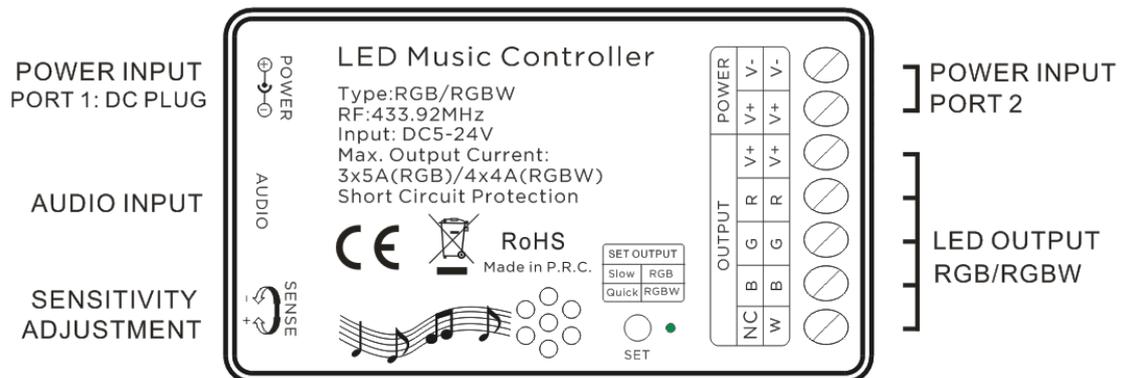- 3-year warranty.

Technical Parameters

Controller

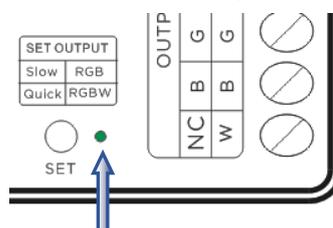| Working temperature	-20-60 ℃	Supply voltage	DC5V-24V
Static power consumption	<1W	Connecting mode	common anode
Grayscale	1024 levels（RGB each）	Speed stage	100 grade
External dimension	L72*W42*20mm	Packing size	L92*W56*H32 mm
Net weight	52g	Gross weight	81g
Output	3/4 channels	Max. Output current	3*5A(RGB)/4*4A(RGBW)
RF frequency	433.92Mhz	Remote distance	Up to 20M
PWM frequency	1.95KHz	Memory function	Yes
Short-circuit protection	Yes	Max. Output power	80W(5V); 192W(12V); 384W(24V)

Remote control

Working temperature	-20℃~45℃	Supply voltage	DC3V（CR2025）
Standby current	3.3uA	Working current	12mA
Standby power	9.9uW	Working power	36mW
Net weight	25g	RF frequency	433.92MHz
External dimension	L85*W51*H6mm	RF distance	≤20m

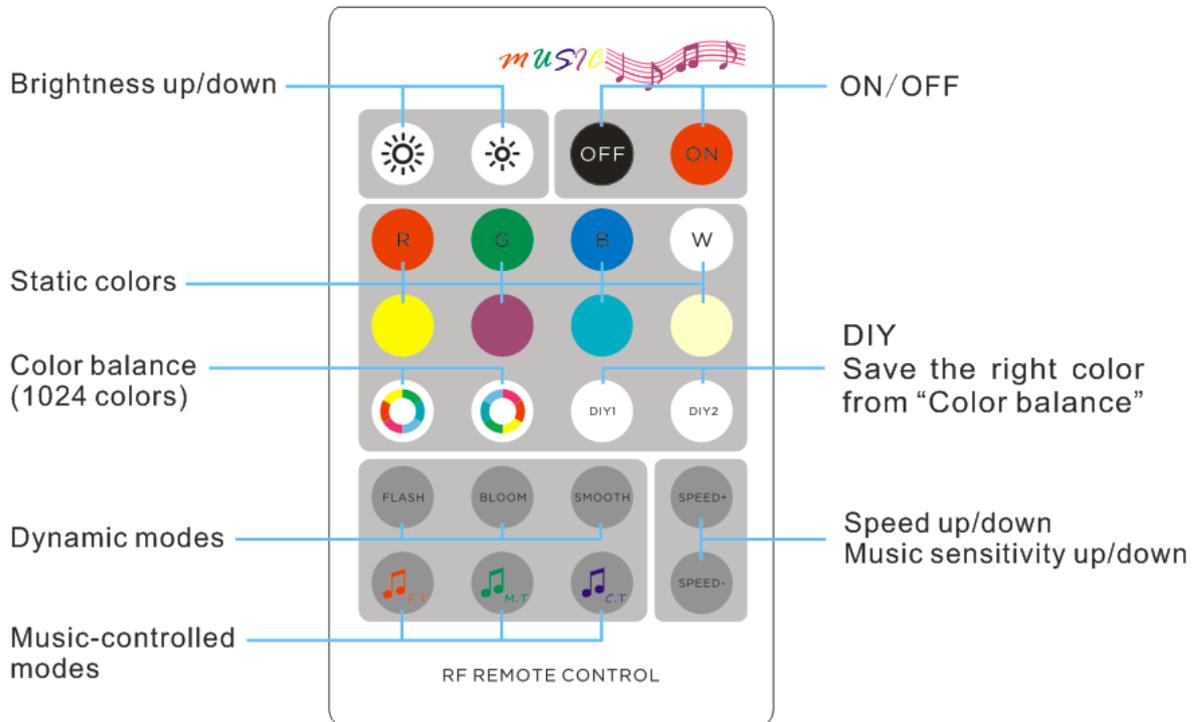## Interface Specifications

Direction for use

● Connect the load wires at first, followed by the power wires.
● Use the SET button to set the output type to be consistent with the type of LEDs connected to the load. The indicator flashes slowly: RGB, flashes quickly: RGBW.

Indicator light
Slow flashing: RGB
Quick flashing: RGBW

- Adopt 2 in 1 RF wireless remote control, 24 keys in total, function of each button as below：

Key functions for RGB

Brightness +	Brightness -	Off	On
Static Red	Static Green	Static Blue	Static white
Static Yellow	Static Purple	Static Cyan	Static warm white
Color balance in left direction, 1024 colors in total.	Color balance in right direction, 1024 colors in total.	DIY 1 Short pressing to extract stored mode; long press for 3 seconds to store the new mode after adjustment.	DIY 2 Short pressing to extract stored mode; long press for 3 seconds to store the new mode after adjustment.
7-color jumpy	3-color fade	7-color fade	Speed/music sensitivity +
Sound control I (FT)	Sound control II (MT)	Sound control III (CT)	Speed/music sensitivity -

Key functions for RGBW

Brightness +	Brightness -	RGB Off	RGB On
Static Red	Static Green	Static Blue	W ON/OFF (Short press-- W switch ON/OFF, long press-- W dimming)
Static Yellow	Static Purple	Static Cyan	Static RGB white
Color balance in left direction, 1024 colors in total.	Color balance in right direction, 1024 colors in total.	DIY 1 Short pressing to extract stored mode; long press for 3 seconds to store the new mode after adjustment.	DIY 2 Short pressing to extract stored mode; long press for 3 seconds to store the new mode after adjustment.
7-color jumpy	3-color fade	7-color fade	Speed/music sensitivity +

Sound control I (FT)	Sound control II (MT)	Sound control III (CT)	Speed/music sensitivity -

RF CODE

Receiver can be controlled by any one the same remote as factory default; remote control delivered with unique RF code as factory default; if unique control is needed, please matching the code before installation and using.

Matching code operation

Receiver and Remote Control are coded as default, matching them before using, if unique-control or new-coded-remote is needed, pairing the remote and the receiver as below operation instructions before using:

Method 1:

1.**Step 1**: Pressing key "FLASH" and hold on, power on the controller, the load LEDs will be 50% brightness white as responding.

2.**Step 2**: Pressing "FLASH" 3times in 3 seconds, corresponding to the operation, the LED's brightness will change as 25%-10%-back to preset level.

3.Code learning successfully, the receiver only can be controlled by the remote.

4.If not, please re-operate from step 1 to 2.

Method 2:

1.**Step 1**: Power on the controller after well connection.

2.**Step 2**: 5 seconds long pressing of the "SET" button (on receiver) until the indicator light lights up, pressing "FLASH" (on remote control) 1 time to finish ("SET" button should be pressed also at the meanwhile), will see the load LEDs flash 3 times by successful operation.

3.Code learning successfully, the receiver only can be controlled by the remote.

4.If not, please re-operate from step 1 to 2.

Clear code operation

Back to factory default, wall-panel can be controlled by any one the same remote control.

Method 1:

1.**Step 1**: Pressing key "SMOOTH" and hold on, power on the controller, the load LEDs will be 50% brightness white as responding.

2.**Step 2**: Pressing "SMOOTH" 3times in 3 seconds, corresponding to the operation, the LED's brightness will change as 25%-10%-back to preset level.

3.Code clearing successfully, the LEDs will be back to the status before the power off, and the receiver can be controlled by any remote control.

4.If not, please re-operate from step 1 to 2.

Method 2:

1.**Step 1**: Power on the controller after well connection.

2.**Step 2**: 5 seconds long pressing of the "SET" button (on receiver) until the indicator light lights up, pressing "SMOOTH" (on remote control) 1 time to finish ("SET" button should be pressed also at the meanwhile), will see the load LEDs flash 3 times by successful operation.

3.Code learning successfully, the receiver only can be controlled by the remote.

4.If not, please re-operate from step 1 to 2.

Typical Applications

Application Circuit 1: RGB

Application Circuit 2: RGBW

Product information for placing order

Product name	Item number
RGB/RGBW 2 in 1 LED MUSIC controller with RF 24 key remote control	LD1051587