

HM-12RGB6A3-RC-4

LED RGB dimmer with touchable button



(Please read through this manual before)

Forward

Thanks for using our RGB Dimmer. The complete package includes a remoter, one LED strip Dimmer, do check if there's any defect during transportation before use, if so, please don't use and inform your supplier immediately.

After-Sales

From the day you purchase our products within a year, if being used properly in accordance with the instruction, and quality problems occur, we provide free repair or replacement services except the following cases:

1. Any defects caused by wrong operations..
2. Any damages caused by unauthorized removal, maintenance, modifying circuit, incorrect connections and replacing chips.
3. Any damages due to transportation, breaking, flooding water after the purchase.
4. Any damages caused by earthquake, fire, flood, lightning strike etc force majeure of natural disasters.
5. Any damages caused by negligence, inappropriate storing at high temperature and humidity environment or near harmful chemicals.
6. Product has been updated.

Safety warnings ⚠️

1. Please don't install this dimmer in lightening, intense magnetic and high-voltage fields.
2. To reduce the risk of component damage and fire caused by short circuit, make sure correct connection
3. Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.
4. Check if the voltage and power adapter suit the dimmer
5. Don't connect cables with power on, make sure a correct connection and no short circuit checked with instrument before power on.
6. Please don't open dimmer cover and operate if problems occur.

The manual is only suitable for this model; any update is subject to change without prior notice.

Product Brief

This is a multi-functional LED dimmer, a common RGB dimmer with touchable function, using the most advanced PWM technology; It's dedicated to control RGB color changes of full color LED lights with 4-wires, 3 channels (common anode), such as RGB LED module, LED strip, LED flexible tape, and other LED lights.







I . Technical Specs:

Model: HM-12RGB6A3-RC-4			
Input Voltage:	DC12/24V	Wireless mode	touchable/RF
Loadable Current:	Max.6A×3CH	Output Power:	Max.216W/12V, 432W/24V
Color Modes:	10 modes	Grey Steps:	256 steps per RGB
Remoter material	ABS+PC	Dimmer Size:	L167×W52×H24(mm)
Intensity Steps:	8 Steps	Remoter size:	L113.5×W55×H21(mm)
Working Temp:	-35℃—55℃	Packing Size:	L120×W72×H50(mm)
Controllable Distance:	Max 20M	Gross Weight:	93 g
Accessories:	3 pcs AAA batteries	Lifespan:	40000 hours
Protection (with warning led)	Short protect Over Current Protect Over Temperature Protect	Power consumer	1 Year/3*AAA Battery

Remarks:

1. Automatic parameter memory function
2. The controller will cut off the output and the red warning lamp will lamp up when short circuit, over current, over temperature are happened. It will return to normal after the problem removed

II . Function Instructions



Sign	Button	Description
	On/Off (1)	Press Key 1 to turn on/off in any state.
	light changing mode (2)	Press Key 2 to activate light changing mode, a new mode each press, 10 modes in total. Long press(3S), Mode will be reset to mode 1,
	white light (3)	Press Key 3 to activate white light mode,
	Intensity up (4)	Increase the brightness by every pressing, total 8 steps.
	Intensity down(5)	Decrease the brightness by every pressing, total 8 steps.
	Color Ring	Touch the color ring to enter static color mode, In this mode, slide your finger on the color ring, choose the color you need optionally, and the color ring is only effective for the body finger.

Changing Mode list:

1	RBG gradual change	6	RGB Jump change
2	RG gradual change	7	full color Jump change
3	RB gradual change	8	Red fade
4	GB gradual change	9	Green fade
5	full color gradual change	10	Blue fade

□. Matching of dimmer and remoter

The distance of wireless control is about 20 meters. One remoter can simultaneously control all valid code within the effective distance, please operate as per the following ways:

1. Press  (4#) button on the remoter 3 seconds before turning on, the white indicator will blinker 3 times, then the dimmer can be controlled by this remoter.
2. It can't affect the finished matching after changing the battery, no need additional setting after loading the new battery, it can be used directly.
3. When you don't want to use the remoter to control the lamp, press  (4#) keys 6 times in 3 seconds, the lamp will blinker 6 times quickly, clearing way is successful.

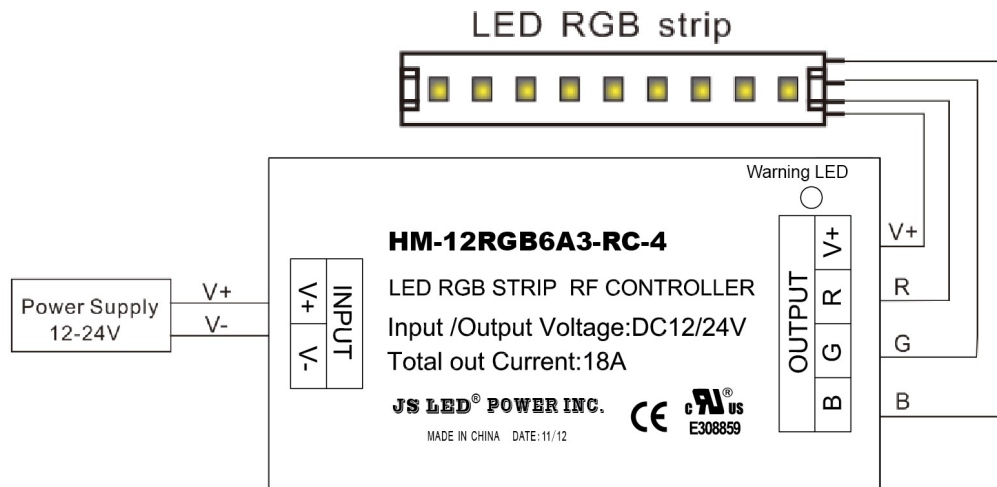
IV. Installation battery of the Remoter

This remoter is used 3 AAA batteries, each voltage is 1.5V.

Open the cover of the battery; load 3 AAA batteries correctly as per the positive and negative instructions in the battery pack.

Notice: When loading the battery, please remember not to touch the color ring or use the palm to cover the color ring, use the remoter 5 seconds later. If happening to touch the color ring, the remoter has no reaction after changing the battery, please take off the batteries, and reload the battery 5 seconds later.

V. Wiring Description



VI. Exception Handles

Malfunction	Causation	Settle
No light	1. No power; 2. The protection of the power supply is active; 3. Wrong connection	1. Check the power 2. Check the fault, then power on again; 3. Check the connection
Incorrect color Amplifier not in phase	4. Wrong connection from RGB wire 5. In-phase cable connected wrong	4. Re-connect RGB wires correspondently 5. Re-connect in-phase wires correspondently
No response from the remoter	6. Wrong battery installation; 7. Beyond controllable distance	6. Install the battery correctly; 7. Reduce remote controllable distance;
Delay response from the remoter	8. battery power is not enough or incorrect step when load battery;	8. Replace battery or reload battery;
Uneven intensity between front and rear, with voltage drop	9. Output cable is too long 10. Wire diameter is too small 11. Overload beyond dimmer or power supply capability	9. Reduce cable or use loop supply. 10. Change wider wire 11. add power amplifier
Signal chaos between dimmer and remoter	12. Controlled may be controlled by other remotes;	12. Clear the memory as the No. 3 and No.1(See Matching of dimmer and remoter)
Warning LED On	13. Protection is action, Dimmer may be short, overload or temperature too high	13, check if dimmer is short or not, whether load and temperature is out of rang