

产品规格书



Model:AP-001SM

Name: Panel RGB Controller



●overview

This product is a new generation of intelligent RGB controller developed by our company using the latest capacitive touch technology and wireless technology. Adopt color ring selection and full touch panel method, humanized design, beautiful and generous, direct and convenient; With stable wireless and capacitive touch control, you can control color from a distance without direction by simply touching the corresponding button with your finger. The remote control can be used to control the RGB luminaire's color selection, mode change, brightness and speed adjustment. The product can adapt to all kinds of constant voltage RGB lamps, such as RGB hard strips, flexible strips, RGB panel lights, RGB modules, etc.

● peculiarity

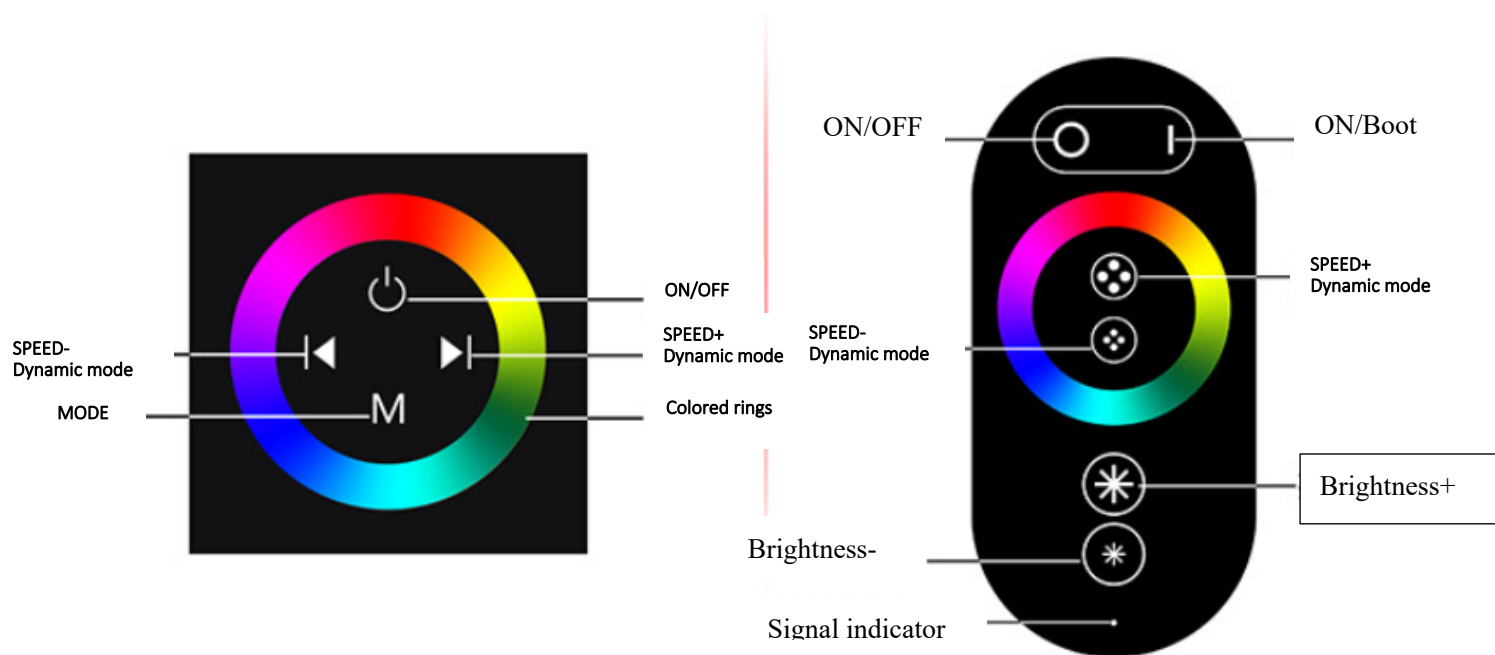
1. All touch mode, no mechanical wear, can overcome the life problem caused by physical buttons.
2. Adopt an intuitive pulley color selection method, which is intuitive and convenient.
3. The input voltage is self-adapting to DC12~24V, and has the function of input polarity protection.



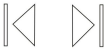
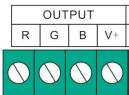
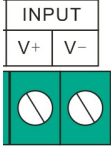

- 4. Using advanced PWM (pulse width modulation) control technology, the change effect is delicate and flicker-free.
- 5. Adopt high-power original dimming control MOS tube. The driving load capacity is strong, up to 18A, and the performance is stable.
- 6. The appearance is novel, beautiful and generous, especially suitable for indoor home and commercial occasions.

● Technical parameters

controller	
Operating voltage	DC 12V~24V
Operating current	4Ax3CH
Output channel	3CH
Output power	144W/288W(12V/24V)
Number of variation styles	11(7 static color modes, 4 dynamic color change modes)
Output control mode	PWM
Output grayscale level	256
Number of keys	10 buttons, 2 color pulleys
Operating temperature	-20℃~60℃
authentication	CE 、 RoHS
Weight (gross)	130g
Package size	L150*W96*H60mm

● Description of the panel and the applicators



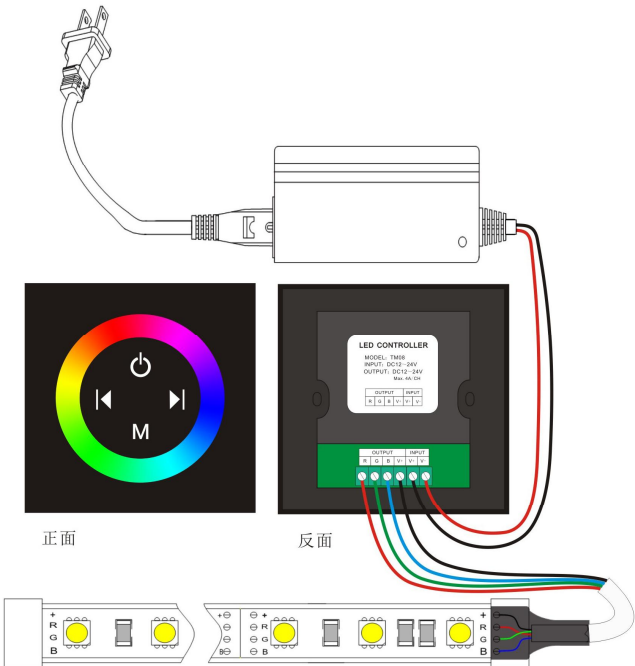
symbol	function
	The on-off key is used to turn LED luminaires on or off.
	Full Color Ring Key: For intuitive selection of any color of the RGB combination, a total of 64 static colors are available.
	Multiplex function keys. Speed plus or minus keys: used to increase and decrease speed in dynamic mode. Brightness plus or minus keys: Used to increase or decrease the brightness in static mode.
	Load output port: used to connect LED RGB luminaires.
	Power input port: input voltage: 12~24VDC.
	Mode key

● Schema table

S/N	MODE	MEMO
1	Static red	Brightness adjustable
2	Static green	
3	Static blue	
4	Static yellow	
5	Static purple	
6	Static cyan	
7	Static white	
8	Three-color jump	The speed is adjustable
9	Seven colors jump	
10	Three-color gradient	
11	Seven-color gradient	

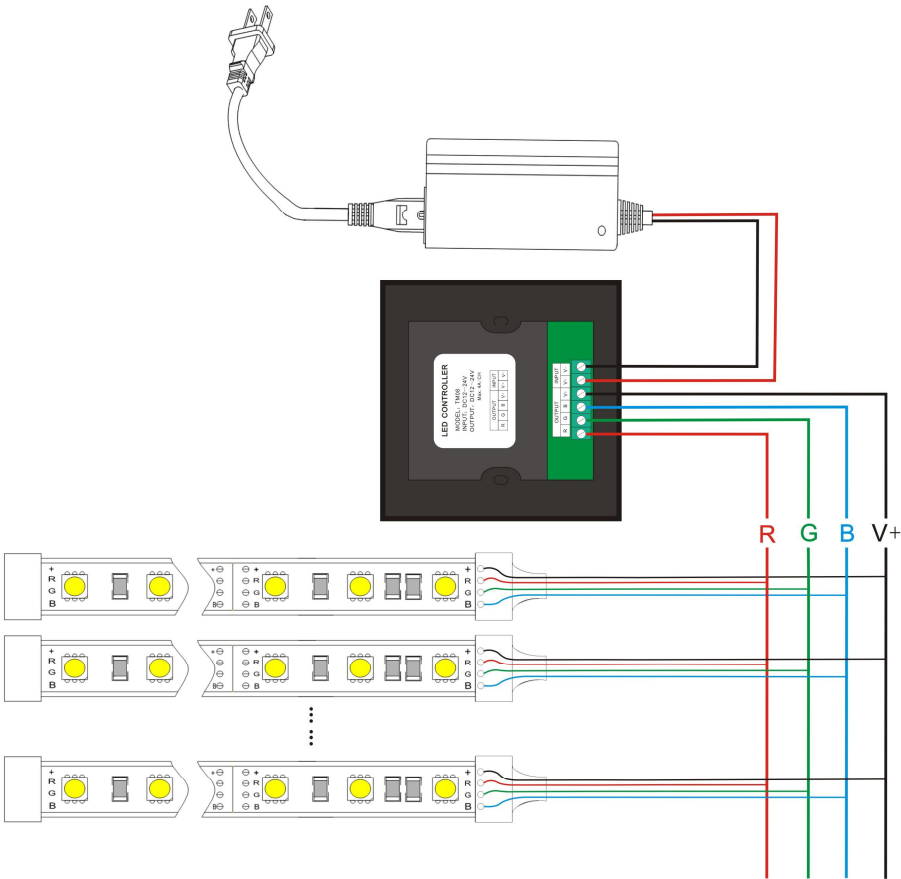
● Wiring and typical application diagrams

The following figure takes connecting RGB strip lights as an example:

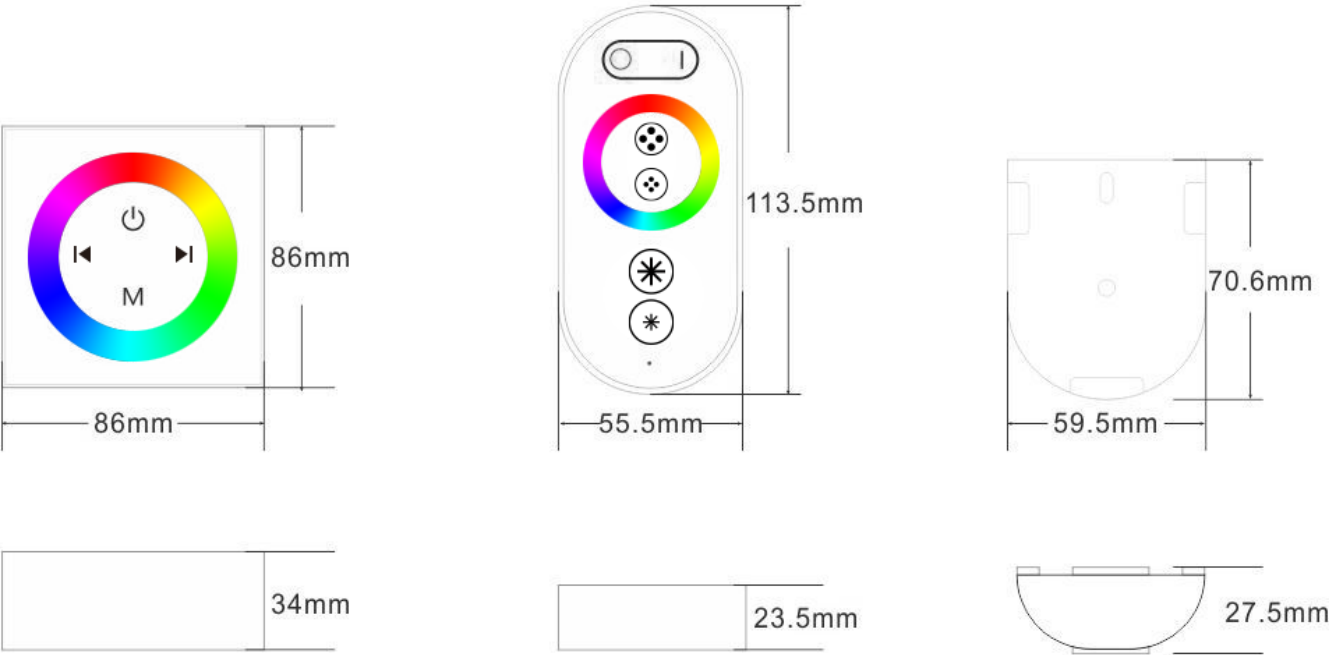


● Power expansion application diagram

The following is a schematic diagram of RGB LED strips as an example, where the amplifiers are all connected in parallel on the output line of the controller.



● Product Dimension Drawing



● Product packaging

Controller size	Color box size	1PCS	Carton size	50PCS
L86*W86*H40mm	L135*W83*H55mm	0.22KGS	L420×W290×H300mm	12kg

● 产品配件



Carton size



Instructions

● Installation precautions

1. This product should be debugged and installed by professionally qualified personnel.
2. This product cannot be waterproof, it is necessary to avoid sun and rain, if it is installed outdoors, please use a waterproof box.
3. Good heat dissipation conditions will prolong the service life of the LED controller, please install the product in a well-ventilated environment.
4. Please do not install and use such products in lightning and thunder, strong magnetic field or high voltage occasions.
5. Please check whether the output voltage of the LED power supply used meets the requirements of the product voltage range.
6. The diameter of the wire used must be enough to load the LED lamp connected, and ensure that the wiring is firm, so as to avoid the wire overheating or poor contact triggering accidents.
7. Before power-on and commissioning, make sure that all wiring is correct to avoid damage to the lamps due to wiring errors.

● After-sales service

1. Our LED controller products provide lifelong technical support and warranty services:

Free warranty: This product has quality problems within one year from the date of purchase, our company will give free repair or replacement service.

Paid warranty: Products that exceed the free warranty period will be charged a certain cost of maintenance materials.

2. The following situations are not covered by the free warranty or replacement service:

Man-made damage such as overvoltage, overload, improper operation, etc.

Any wiring errors, flooding (non-waterproof products) and unauthorized repairs.

Any serious damage or serious deformation of the shape due to transportation, knocking, etc.

The shape of the product is severely damaged or deformed.

Damage caused by natural disasters and force majeure causes, such as earthquakes, floods, fires, etc.

3. The company's maximum responsibility for the factory products is to replace the same model and quantity of products.
4. In order to speed up the timeliness of repair or replacement, please indicate the fault phenomenon, the use environment, and the operation done when the fault occurs, so as to ensure that the maintenance situation is dealt with quickly.