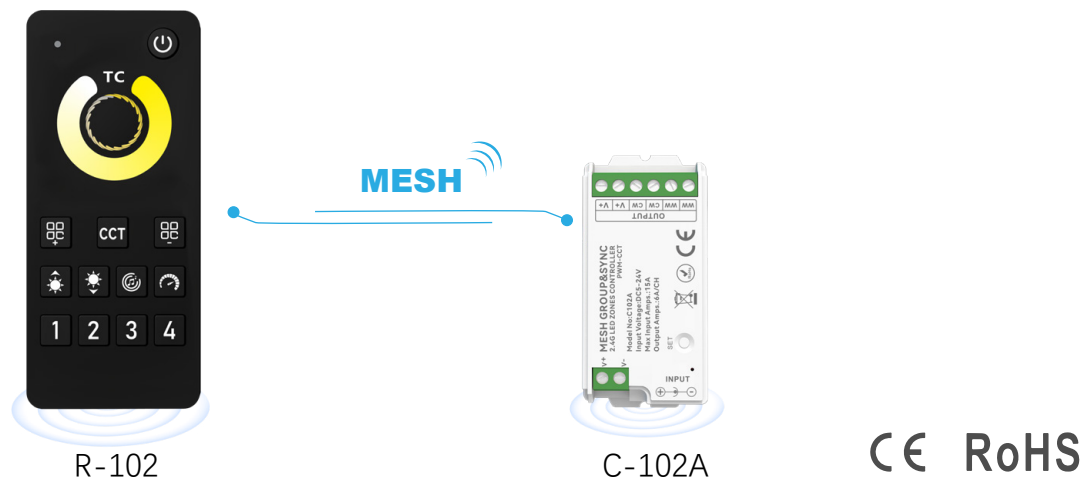


MESH

R-102+C-102A

CCT LED MESH Grouped controller set



MESH LED controller is our newly developed LED controller series. Can be used with a MESH remote control. The controller has the functions of automatic transmission and automatic synchronization, and the controller adopts the widely used MESH wireless technology, which has the characteristics of low power consumption, stable signal transmission and strong anti-interference.

A compatible remote control can control multiple controllers at the same time. It is widely used in the control of hotel lighting and home lighting.

The device can be divided into 4 independent zones or groups, and partition control can be realized through a single remote control, which is suitable for multi-room or multi-scenario management. A single remote control can manage and synchronize up to 500 controllers, and each controller can be supported by 10 remote controls. For example, the living room, bedroom, kitchen, and corridor can be divided into different areas, which can be switched on and off independently

Peculiarity

- MESH wireless transmission technology, stable signal and strong penetration.
- It supports matching multiple devices, and can control multiple devices at the same time, and one remote control can manage and synchronize up to 500 controllers. (Control distance 30 meters)
- The mode, color temperature, and brightness can all be adjusted according to personal preference, and the color and speed of the dynamic mode can be edited.
- PWM (Pulse Width Modulation) technology ensures smooth light transitions to avoid eye fatigue.
- The device has an automatic transfer and synchronization function.
- It supports multi-controller cascade and easily covers large-area lighting scenarios such as shopping malls, theaters, and building facades.

Device parameters

LED controllers

Input voltage	DC 5-24V
Input current	6/CH; 15A max
Access signal	MESH
Control the distance	30M
Size	L75XW36XH17mm
Authentication	CE,ROHS

Environment

Operating temperature	Ta: -20°C ~ +60°C
Maximum temperature of the case	Tc: +65°C
IP rating	IP20

Wrap

Package size	L7.6XW3.7XH2.1cm/0.04kg
Box size (100 pcs)	L19XW16XH12cm/4.2kg

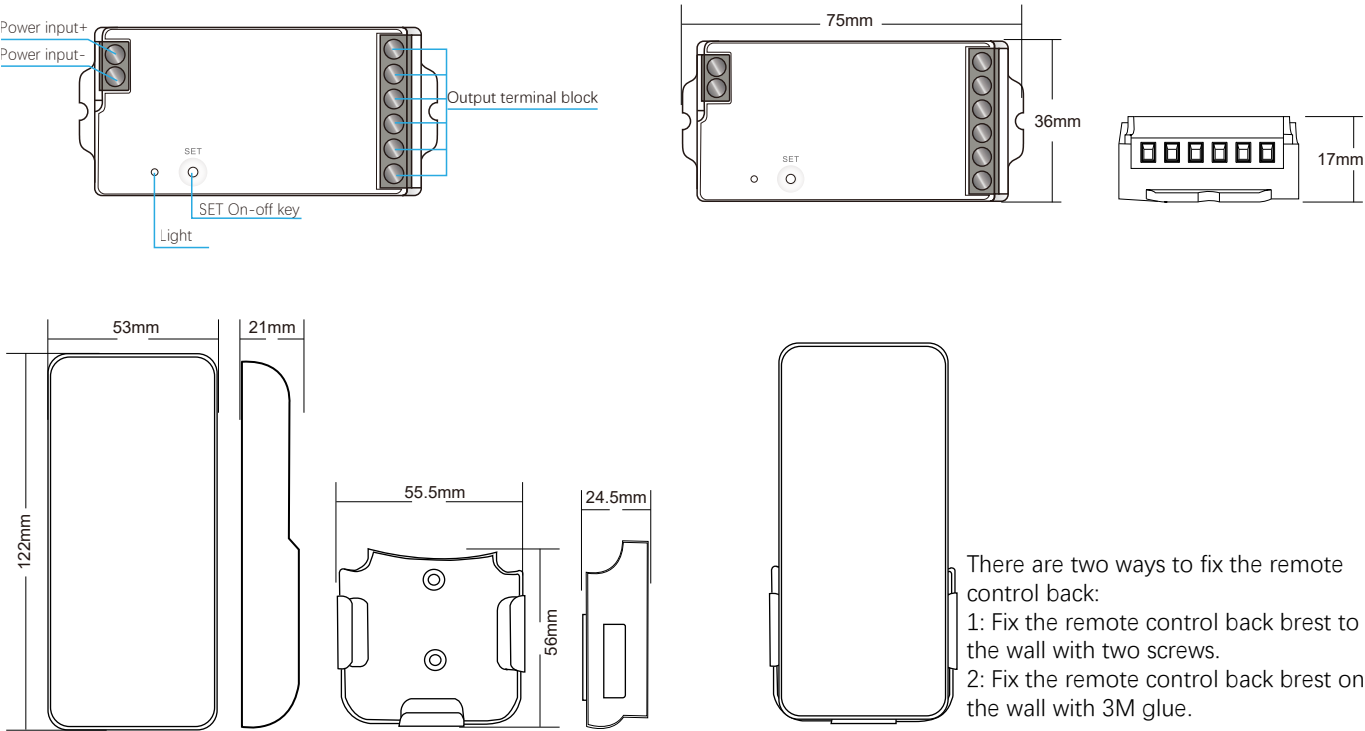
LED remote control

Voltage	3V(AAA*2PCS)
Operating current	10mW
Transmission frequency	MESH (2.4GHz)
Standby power consumption	15μA
Transmit power	6dBm
Dimming range	1-100% Infinitely dimming
Remote control distance	30M
Size	L122XW53XH21mm
Operating temperature	Ta: -20°C ~ +60°C
Authentication	CE,ROHS

Wrap

Package size	L13XW5.8XH2.7cm/0.105kg
Box size (100 pcs)	L27XW30XH15cm/11kg

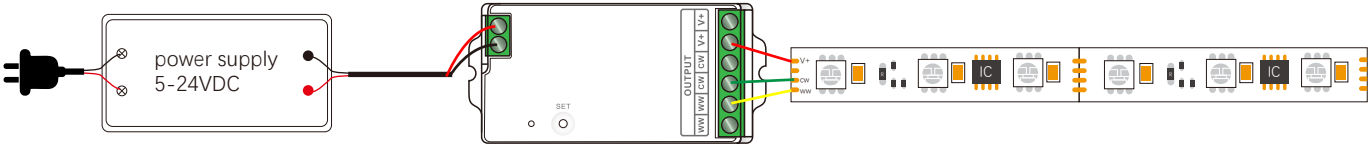
Equipment mechanism and installation



Wiring diagram of the device

Connect the strip light

AC100-240V



Description of the function of the remote control



R-102 Remote Control Mode Comparison Table

Dynamic Mode Comparison Table

S/N	MODE	S/N	MODE	S/N	MODE
1	Three-color gradient breathing	2	Warm light flashes	3	Cool white flashing
4	Neutral light flashes	5	Alternately warm and cold flickering	6	The three colors flash alternately

S/N	MODE	S/N	MODE	S/N	MODE
7	Warm white breath	8	Cold white breathing	9	Neutral photorespiration




Note: The brightness is adjustable and the speed is adjustable



Music Mode Comparison Table

S/N	MODE	S/N	MODE
1	Warm white flashes to the music	2	Cool white flashes along with the music
3	Cold/warm flicker with the music	4	Cool white/warm white/neutral light flashes to the music
5	Warm white is fixed, and cool white flashes with the music		

Note: The brightness and speed are not adjustable in music mode

Device code matching & cancellation

function		Button mode	Power-off mode
	'SET'key	ON/OFF	Short press (release within 1s)
	The remote control is paired	Press (3S)	The indicator light flashes quickly
	Clean up and reset	Press and hold (10S)	The controller indicator flashes quickly

Schematic diagram of the control connection



Safety Precautions

1. The remote control is a precision electronic product, please do not use it in a humid or high temperature environment for a long time. If not in use for a long time, remove the battery and store it in a cool, dry place.
2. Do not use this device in a large area of metal or in an environment with strong electromagnetic waves nearby, otherwise it will seriously affect the control distance
3. Please check whether the input voltage of the constant voltage power supply meets the requirements of the controller, and check whether the connection of the cathode and anode is correct.
4. The working voltage is DC 5~24V, if the voltage is higher than 24V, the controller will be damaged.
5. Non-professional users cannot directly disassemble the controller, otherwise it may cause fire and electric shock.
6. The working temperature (Ta) is -20~60℃; Do not use the appliance in direct sunlight, humidity, or other high-temperature areas.
7. When the equipment load reaches 15A, the wire diameter must be more than 1.5 square millimeters
8. When the device load exceeds 10A, the connection cable from the DC port to the LED strip must be shorter than 40cm.
9. Please install the device in a good heat dissipation area.