LED RGBW Controller Kit

- Compact and lightweight, with a housing made from Covestro/Samsung V0-rated flame-retardant PC material;
- Features a soft-start gradual dimming function for greater visual comfort;
- 2.4 GHz RF wireless signal eliminates the need for signal cables;
- Ultra-sensitive touch-sensitive brightness ring for color adjustment;
- Equipped with color shortcut functionality, allowing one-touch switching between different color settings;
- Built-in 9 dynamic modes and 7 static modes;
- A single remote control can control an unlimited number of controllers within its effective range;
- Controllers within the same group or zone feature dynamic synchronization;
- LED status indicators provide operational feedback.

M4A

P4

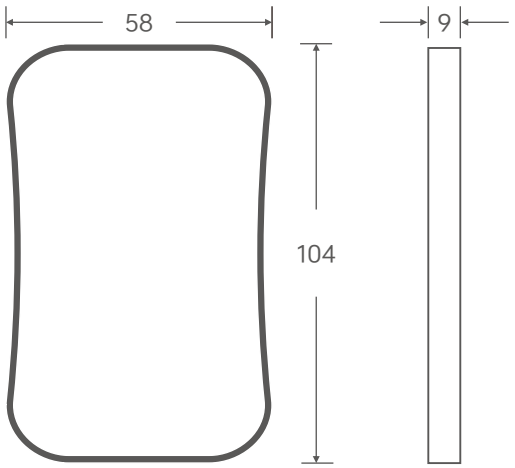
Technical Specifications

M4A+P4

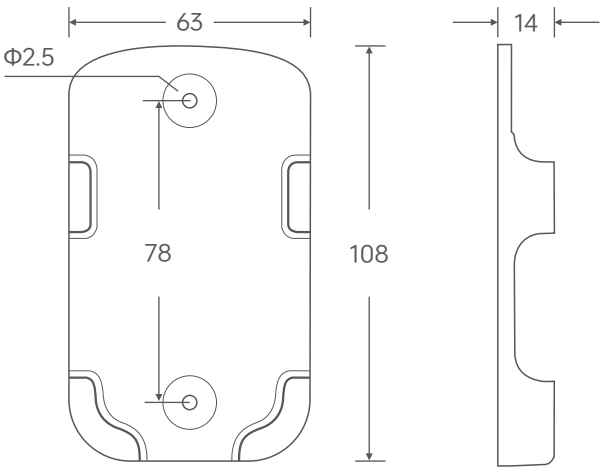
Remote Control	M4A	Controller	P4
Product Color	White	Input Signal	RF2.4GHz
Dimming Type	RGBW	Input Voltage	12-48V ⎓
Wireless Type	RF 2.4GHz	Output Voltage	12-48V ⎓
Operating Voltage	3 VDC (1 CR2032 button cell battery)	Number of Channels	4 channel
Standby Current	< 2uA	Reset Switch	No
Remote Control Range	30 meters (under ideal conditions)	Load Current	Max. 15A
Operating Temp.	-10℃~50℃	Load Power	180W@12V 288W@24V 360W@36V 480W@48V
Product Weight	40g±5g	Protection	Short-circuit, over-temperature, overcurrent, and reverse connection protection
Dimensions	104×58×9 mm (remote control) 108×63×14 mm (remote control+backrest)	Product Weight	46g±5g
		Dimensions	L91×W37×H21(mm)

Product Dimensions

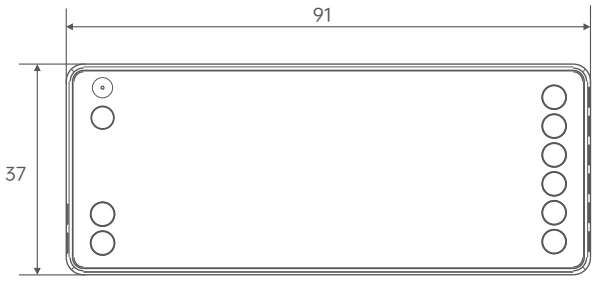
Unit: mm



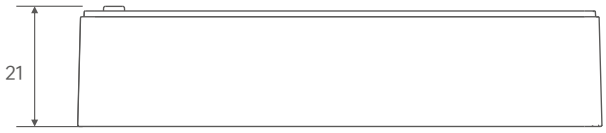
Remote Control



Remote Control Backrest



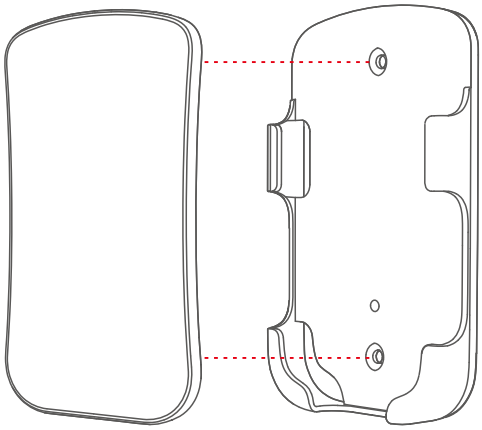
Controller

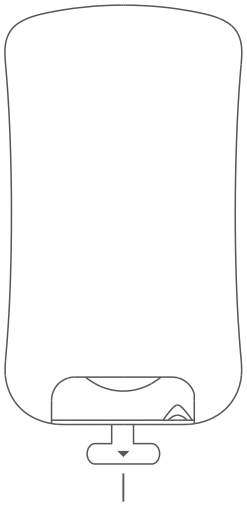


Product: 41mm

Cutout dimensions: Φ 43-45mm

Product Installation





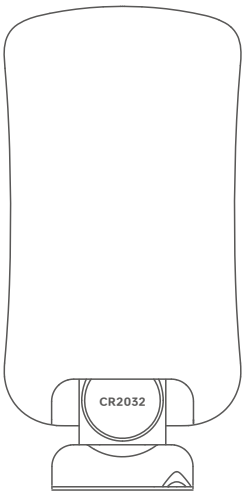
Two ways to fix the remote holder:

1. Fix the remote holder in the wall with two screws.
2. Fix the remote holder in the wall with a 3M adhesive.

Note: Please pull out the battery tab before first use

Replacement Battery

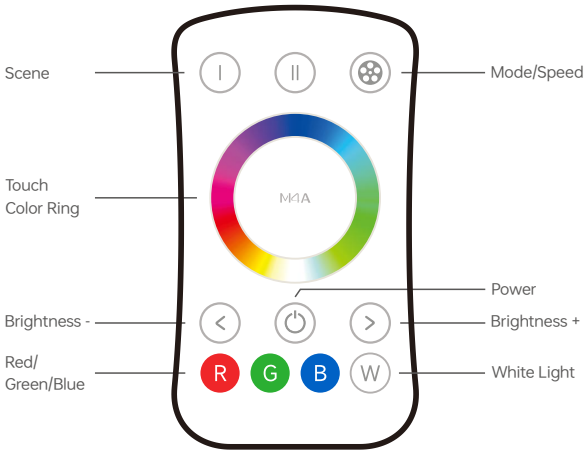
① Use a screwdriver to unscrew the bottom screw.



② Pull out the battery compartment and replace the battery.

③ Tighten the screw after replacing the battery.

Features



Power: Turns the lights on or off.

Touch Color Ring: Touch the RGB color ring to select a color.

Mode/Speed: Short press to switch between dynamic mode and static mode;

In dynamic mode, press and hold to adjust the speed.

Short press both "R" and "W" keys simultaneously to cycle through dynamic modes.

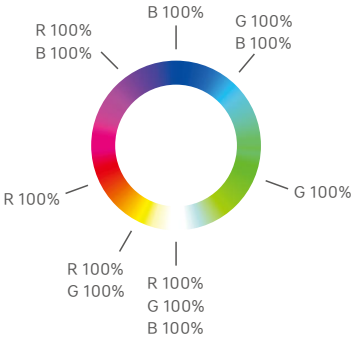
Brightness +/-: Adjust brightness; short press for 11 levels; long press for 1-6 seconds for 255 levels of continuous adjustment.

Red/Green/Blue: Short press to turn the static red/green/blue channels on or off.

Long press for 1-6 seconds to continuously adjust the brightness of the current channel.

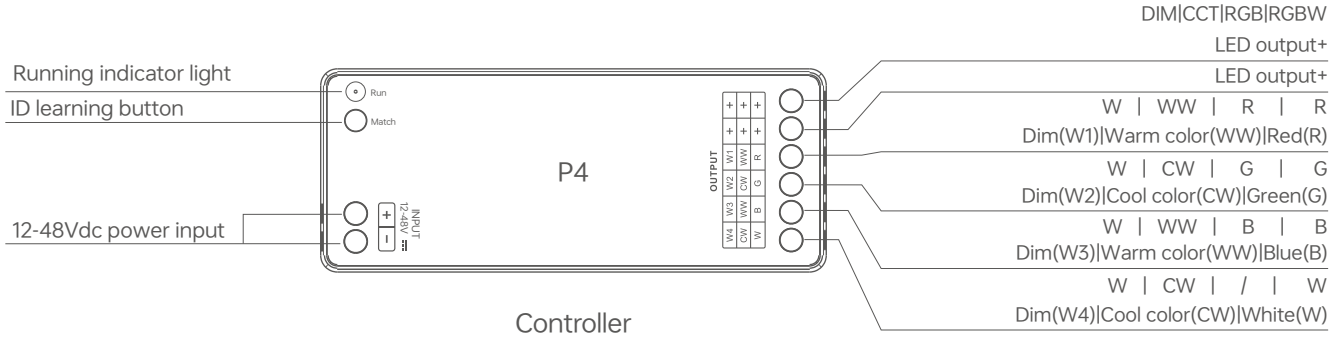
White Light: For RGBW lamps: short-press to turn the W channel on or off; press and hold for 1–6 seconds to adjust the W channel brightness continuously in 255 levels.

Scene: Short press to recall the scene; long press for 2 seconds to save the current lighting state to the scene.

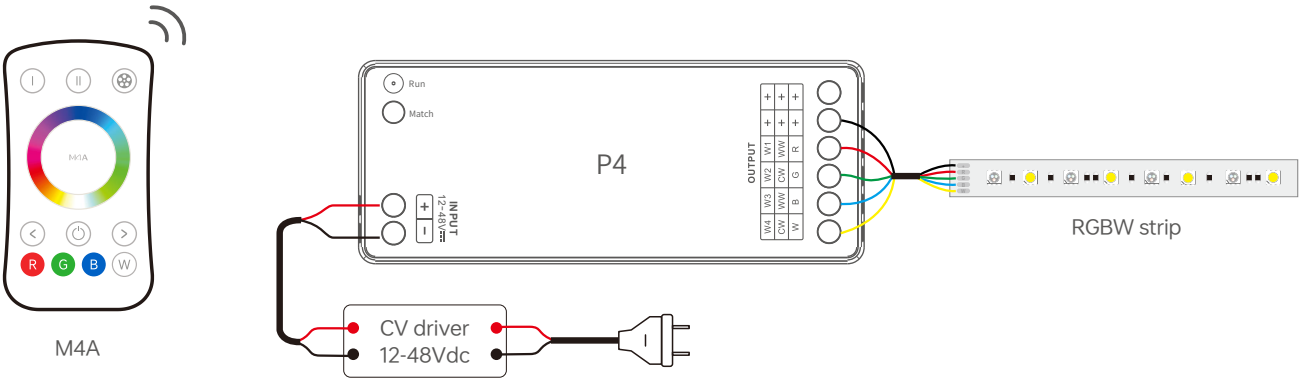


Color	R/G/B values
Red	R100% G0% B0%
Yellow	R100% G100% B0%
Green	R0% G100% B0%
Cyan	R0% G100% B100%
Blue	R0% G0% B100%
Purple	R100% G0% B100%
White	R100% G100% B100%

Dynamic mode	1	Red-purple gradient	Static mode	10	Red
	2	Blue-purple gradient		11	Green
	3	Color temperature gradient (warm yellow, cool white)		12	Blue
	4	Three-color gradient (RGB)		13	Yellow
	5	Six-color gradient (red, green, blue, yellow, purple, cyan)		14	Purple
	6	Seven colors changing (red, green, blue, yellow, purple, cyan, white)		15	Cyan
	7	Seven-color gradient (red, green, blue, yellow, purple, cyan, white)		16	Mixed light white
	8	Three-color gradient (RGB)			
	9	White gradually brightens and darkens			



Wiring Diagram



Pairing

Button Pairing

1. Briefly press the ID learning button on the controller. The load indicator will flash. Please complete the following steps within 10 seconds.

2. Mini Pro Series Single-Zone Remote Control with Pairing:

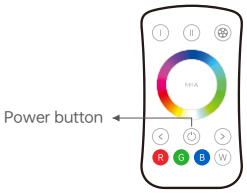
Press and hold the power button until the controller's load indicator flashes rapidly and then stays lit, and the color ring changes when touched.
The programming is complete.

Power-on synchronization

1. After the controller has been powered off and then powered back on, please complete the following steps within 10 seconds.

2. Mini Pro Series Single-Zone Remote Control with Pairing:

Press and hold the power button until the controller's load indicator flashes rapidly and then stays lit, and the color ring changes when touched.
The programming is complete.



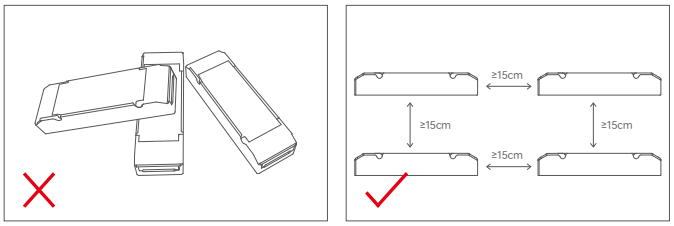
Note: A single controller can pair with up to 10 remote controls. If more than 10 remote controls are paired, the ID code of the first remote control will be automatically deleted.

Clear Code

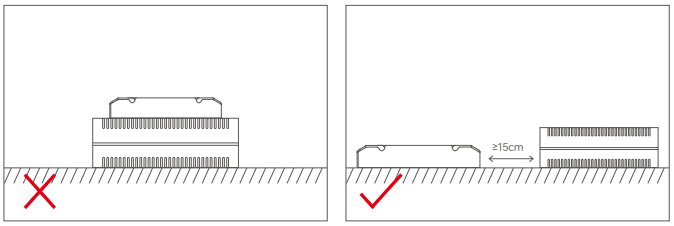
How to delete all remote controls:

Press and hold the "Learn" button on the controller for 6 seconds. The controller's load indicator will flash quickly four times and then remain lit, indicating that the code has been successfully cleared.

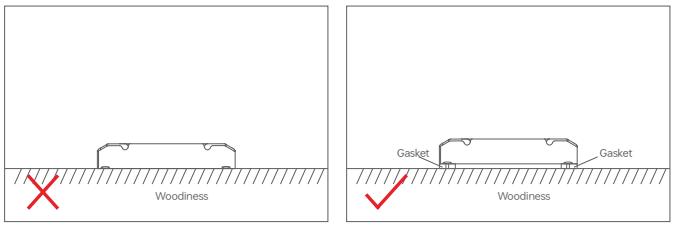
Installation Precautions



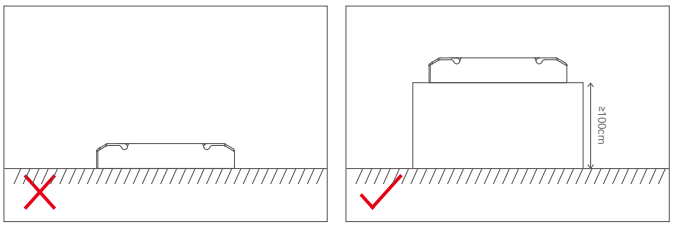
Please do not stack the products. The distance between two products should be ≥15cm so as not to affect heat dissipation and the lifespan of the products.



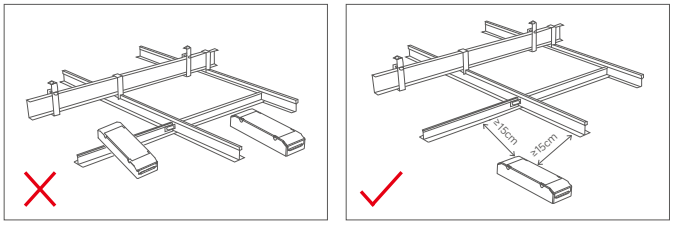
Do not place the product on top of a power supply. The distance between the product and the power supply should be ≥15 cm so as not to affect heat dissipation and the lifespan of the product.



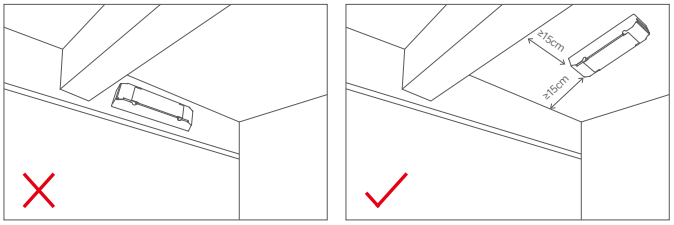
Do not fix the product tightly against the wooden board with screws. Please add a washer ≥7 mm thick under the mounting screws to leave a gap for effective heat dissipation, so as to avoid affecting the heat dissipation and service life of the product.



Please do not place the products on the floor. The distance between the product and the floor should be ≥100cm so as to avoid signal interference.



Do not allow the product to come into large-area contact with metal objects (e.g. keel frames). The separation distance shall be ≥15 cm to avoid signal interference affecting operation.



Please do not install the products on beams or near the corners. The distance between the product and the beam or the corner should be ≥15cm so as to avoid signal interference.

Attentions

- Product installation and commissioning should be done by a qualified professional.
- Products are and not lightning proof non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices.
- Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.
- During installation, avoid being close to large-area metallic objects or stacking the devices, so as to prevent signal interference from affecting the usage.
- Avoid installing in thunderstorm-prone areas, areas with strong magnetic fields, and high-voltage areas.
- When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- Please check whether the working voltage used complies with the parameter requirements of the product.
- Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
- If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.

* This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

Warranty periods from the date of delivery : 5 years.
Free repair or replacement services for quality problems are provided within warranty periods.
Warranty exclusions below:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by Our company.

1. Repair or replacement provided is the only remedy for customers. Our company is not liable for any incidental or consequential damage unless it is within the law.
2. Our company has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.