LED Controller

(Single-zone)

The Mini Pro series LED remote control uses RF 2.4GHz wireless transmission technology, with a control distance (unobstructed) of up to 30 meters.

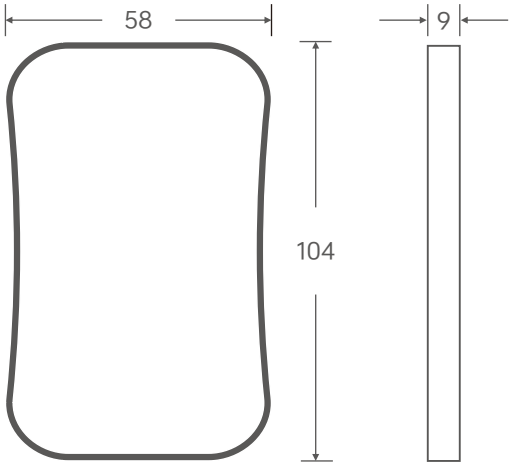
When paired with the P-series controllers (P1/P2/P3/P4/P5), one controller is compatible with 5 outputs, supporting five types of lighting fixtures: DIM/CT/RGB/RGBW/RGBCW. One remote control can control numerous controllers within its effective range, enabling functions such as turning lights on/off, adjusting brightness, adjusting color temperature and RGB static colors, dynamic mode effects, and scene recall, meeting users' needs for different lighting applications. For example, the dimming remote (M1A/M1B) has a quick brightness function, allowing one-button switching of brightness percentage; the color temperature remote (M2A/M2B) has a night light function, allowing one-button switching to low brightness; the RGBW remote (M4A/M4B) and RGBCW remote (M5A/M5B) can switch between dynamic mode and static mode via the mode button, or achieve a 9 dynamic mode via remote control combination keys.

Technical Parameters

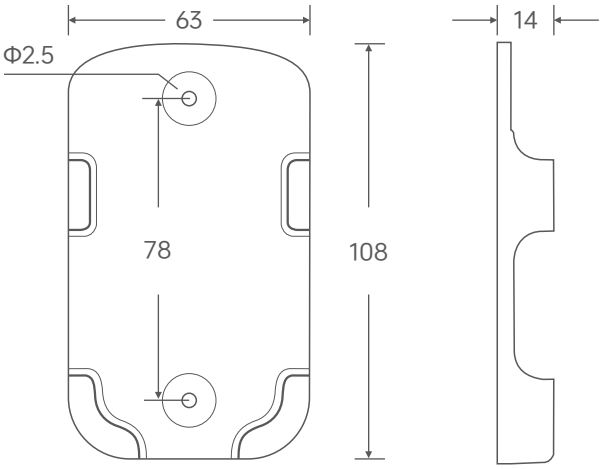
Model	M1A	M1B	M2A	M2B	M4A	M4B	M5A	M5B
Color	White	Black	White	Black	White	Black	White	Black
Dimming Type	DIM		CT		RGB/ RGBW		RGBCW	
Wireless type	RF 2.4GHz							
Working voltage	3Vdc (Button battery CR2032×1)							
Standby current	< 2uA							
Distance of remote	30M (Under unobstructed conditions)							
Working temp.	-25℃~50℃							
Weight	40g±10g							
Dimensions	104×58×9mm (remote)，108×63×14mm (remote+hold)							

Dimensions

Unit: mm

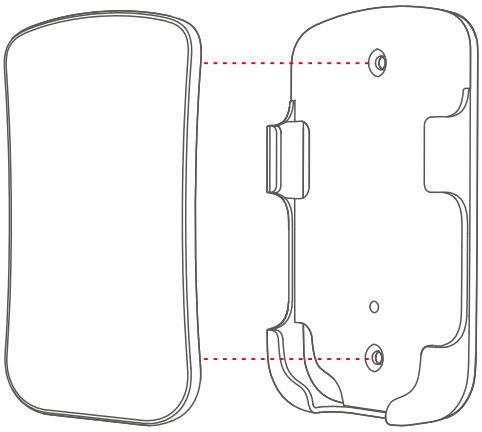


Remote



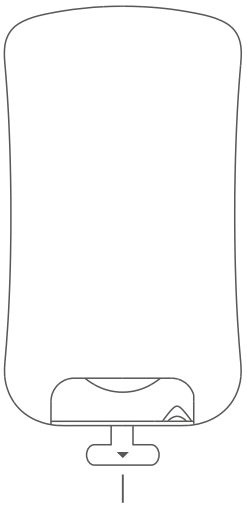
Remote holder

Product Installation



Two ways to fix the remote holder:

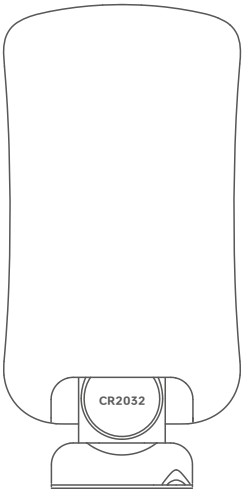
1. Fix the remote holder in the wall with two screws.
2. Fix the remote holder in the wall with a 3M adhesive.



Note: Please pull out the battery tab before first use

Replacement Battery

① Use a screwdriver to unscrew the bottom screw.

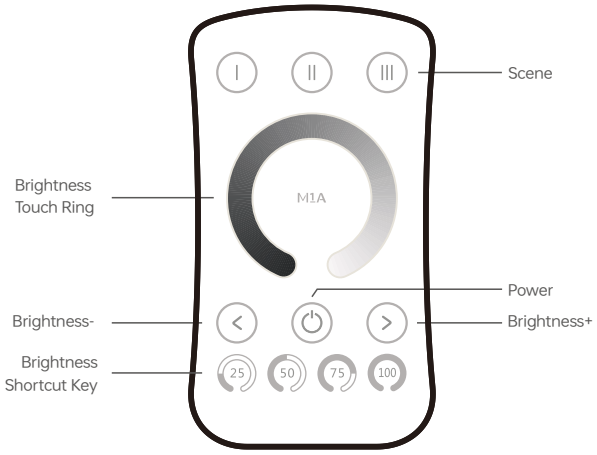


② Pull out the battery compartment and replace the battery.

③ Tighten the screw after replacing the battery.

Button Functions

Dimming Remote Control M1A/M1B



Power: Turns the light on or off.

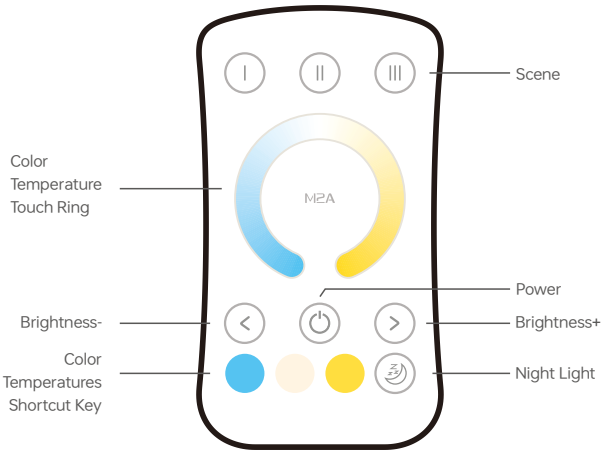
Brightness Touch Ring: Touch to change the light's brightness.

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

Brightness Shortcut Key: 25%, 50%, 75%, 100% .

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

Color Temperature Remote Control M2A/M2B



Power: Turns the light on or off.

Color Temperature Touch Ring: Touch to change the light's color temperature.

Night Light: Switches to low brightness, night light mode.

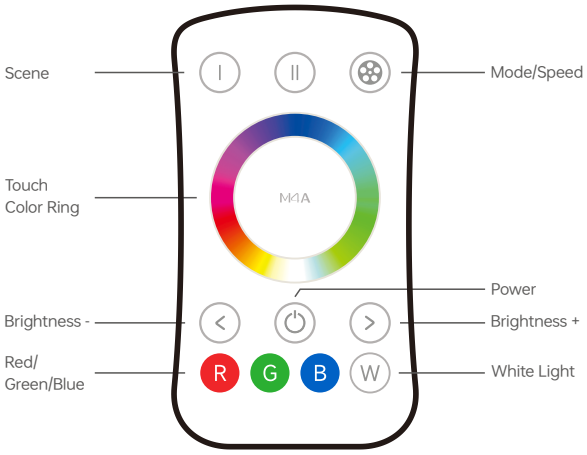
Brightness +/-: Adjusts brightness; short press for 11 levels; long press for 1-6 seconds for 255 levels of continuous adjustment.

Color Temperatures Shortcut Key: Cool White, White Light, Warm Light.

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

Button Functions

RGB/RGBW Remote Control M4A/M4B



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.

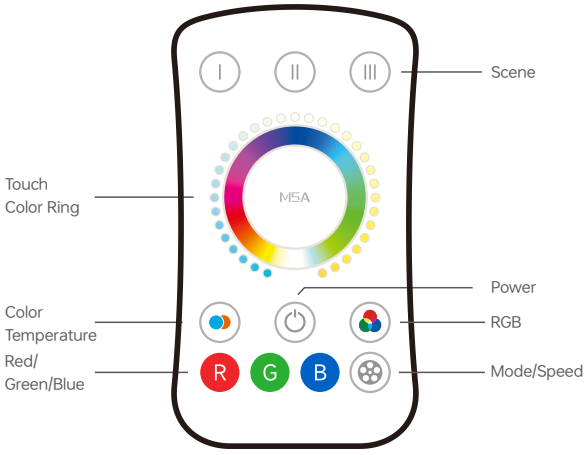
Brightness +/-: Adjust brightness; short press for 11 levels; long press for 1-6 seconds for 255 levels of continuous adjustment.

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.

RGBCW Remote Control M5A/M5B



Power: Turns the lights on or off.

Touch Color Ring: Select colors using the touch color temperature/RGB color ring.

Mode/Speed: Short press to switch between dynamic mode and static mode;
In dynamic mode, press and hold to adjust the speed.
Short press the "R" and "❁" keys simultaneously to cycle through dynamic modes.

Color Temperature: Short-press to select the color temperature channel, and touch the color ring to switch it to the color temperature touch ring; Press and hold for 1–6 seconds to adjust the brightness of the current color temperature continuously in 256 levels; Double-click to activate 100% color temperature brightness.

RGB: Short-press to select the RGB channel, and touch the color ring to switch it to the RGB touch ring; Press and hold for 1–6 seconds to adjust the brightness of the current color continuously in 256 levels; Double-click to activate 100% RGB brightness.

Red/Green/Blue: Short press to turn the static red/green/blue channel on or off.
Press and hold for 1–6 seconds to adjust the brightness of the current channel 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			

Used with P-series controllers

Code Pairing

Key pairing code

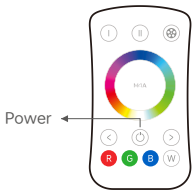
1. Short press the controller's ID learning button. The load indicator will start flashing. Please complete the following steps within 10 seconds.

2. Pairing with Mini Pro series Single-zone remote control:
Press and hold the Power button until the load indicator flashes quickly and stays on and the color ring changes. Pairing complete.

Power-on code pairing

1. After the controller powers off and back on, please complete the following steps within 10 seconds.

2. Pairing with Mini Pro series Single-zone remote control:
Press and hold the Power button until the load indicator flashes quickly and stays on and the color ring changes. Pairing complete.



Note: One controller can be paired with a maximum of 10 remote controllers. If more than 10 remote controllers are paired, the ID code of the first remote controller will be automatically deleted.

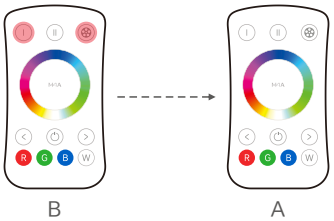
Clear Code

To delete all remote controls:
Press and hold the controller ID learning button for 6 seconds. The controller load light will flash 4 times quickly and then stay on, indicating successful code clearing.

Use the Remote Controls Together

Code Pairing (assuming B learns from A)

1. Simultaneously press and hold the top two buttons on remote control B until the indicator light stays on, then release.
2. Within 5 seconds, press any button on remote control A. The indicator light on remote control B will turn off, indicating successful learning.
*Remote controls of the same model can learn from each other.



Clear Code

Simultaneously press and hold the top two buttons on the remote control for 6 seconds until the indicator light flashes twice, indicating successful code clearing.

Indicator Light Status

- When the light is on, press any button, and the remote control's indicator light will turn red.
- If no button is pressed for 6 seconds, the remote control will enter sleep mode. To exit sleep mode, press any button.

Note: If the LED light does not turn on when the button is pressed, the battery may be dead. Please replace the battery in a timely manner.

Transportation and Storage

1. Transportation

Products can be shipped via vehicles, boats and planes.

During transportation, products should be protected from rain and sun. Please avoid severe shock and vibration during the loading and unloading process.

2. Storage

The storage conditions should comply with the Class I Environmental Standards. The products that have been stored for more than six months are recommended to be re-inspected and can be used only after they have been qualified.

Attentions

- Please use in a dry indoor environment;
- When installing the battery, please connect the positive and negative terminal correctly. If the remote will not be used for a long period, take the battery out;
- When the remote distance is shorten and or the remote doesn't work frequently, please change the battery in time;
- Please carefully take it and put it down to prevent falls that cause damage;
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.

* 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:

Following conditions are not within the guarantee range of free repairing or replacementservices:

- 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.

⚠ WARNING	
• INGESTION HAZARD: This product contains a button cell or coin battery. • DEATH or serious injury can occur if ingested. • A swallowed button cell or coin battery can cause Internal chemical Burns in as little as 2 hours. • KEEP new and used batteries OUT OF REACH Of CHILDREN • Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.	

a) Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
b) Even used batteries may cause severe injury or death.
c) Call a local poison control center for treatment information.
d) The compatible battery type: CR2032.
e) The nominal battery voltage: 3Vdc.
f) Non-rechargeable batteries are not to be recharged.
g) Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
h) Ensure the batteries are installed correctly according to polarity (+ and -).
i) Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
j) Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
k) Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

Update Log

Version	Updated Time	Update Conten	Updated by
A0	20231222	Original version	Siyu Li
A1	20240822	Optimized the typesetting and the description of controller parameters.	Weiling Yang
A2	20251120	Added UL certification	Shaoyun He
A3	20260121	Optimized the operation of the [RGB] key and [Color Temperature] key; upgraded the pairing method; Optimized the dynamic mode effects, added the static mode.	Shaoyun He