Mini Pro

M4A+P3 **RF2.4G**

LED RGB 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

P3

E517856

RED RoHS

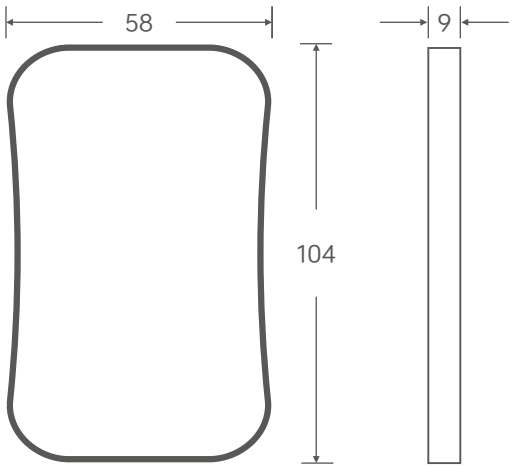
Technical Specifications

M4A+P3

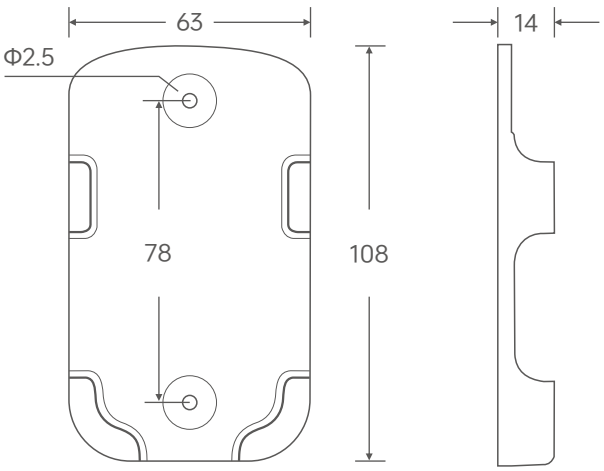
Remote Control	M4A	Controller	P3
Product Color	White	Input Signal	RF2.4GHz
Dimming Type	RGB	Input Voltage	12-48V ⎓
Wireless Type	RF 2.4GHz	Output Voltage	12-48V ⎓
Operating Voltage	3 VDC (1 CR2032 button cell battery)	Number of Channels	3 channel
Standby Current	< 2uA	Reset Switch	Yes
Remote Control Range	30 meters (under ideal conditions)	Load Current	Max. 15A
Operating Temp.	-10℃~50℃	Load Power	180W@12V 360W@24V 432W@36V 432W@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

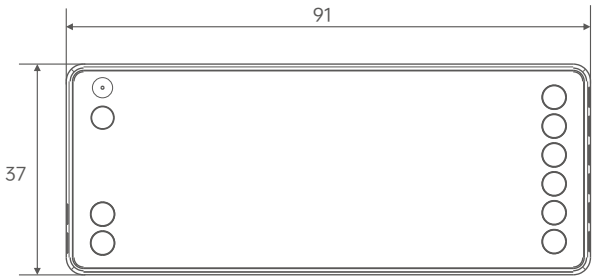
Unit: mm



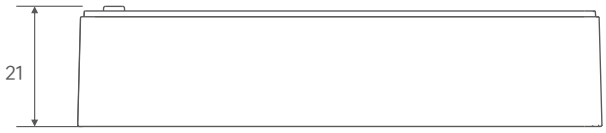
Remote Control



Remote Control Backrest



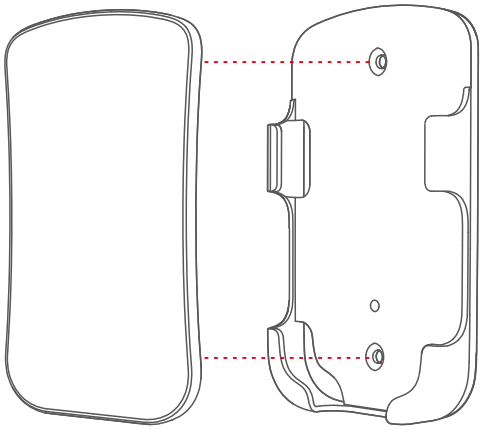
Controller

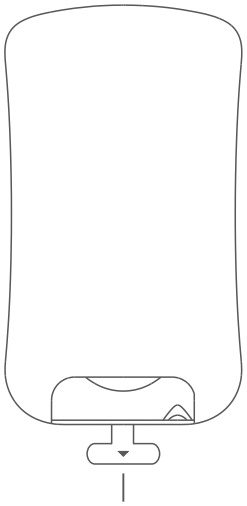


Product: 41mm

Cutout dimensions: Φ 43-45mm

Product Installation





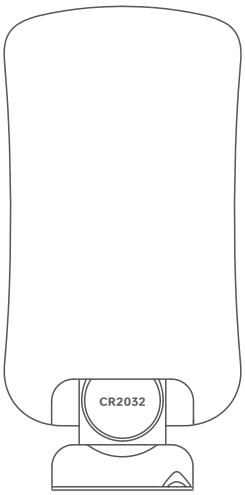
Two ways to fix the remote holder:

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

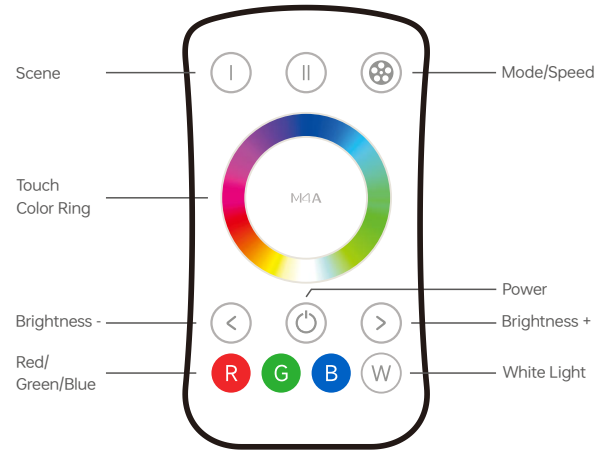
① Use a screwdriver to unscrew the bottom screw.



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.

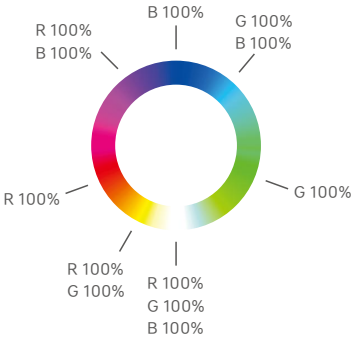
Brightness +/-: Adjust brightness; short press for 11 levels; long press for 1-6 seconds for 255 levels of continuous adjustment.

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.

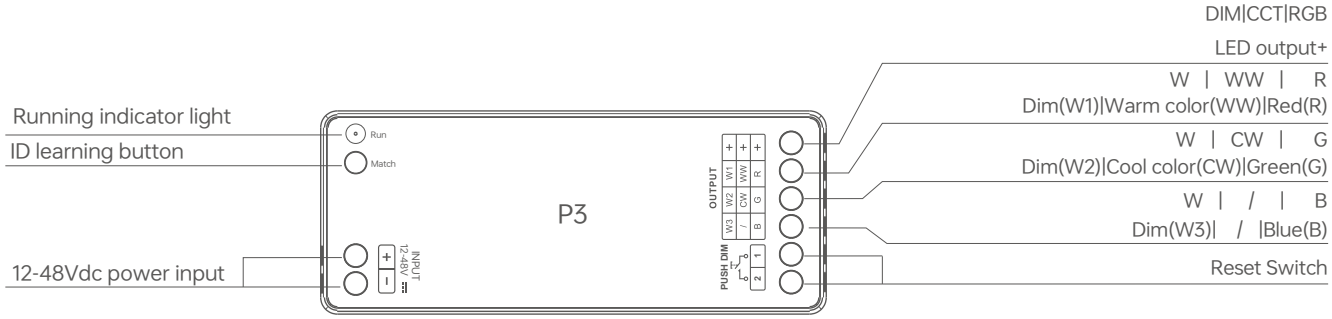
White Light: For RGBW lamps: short-press to turn the W channel on or off; press and hold for 1–6 seconds to adjust the W channel brightness continuously in 255 levels.

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



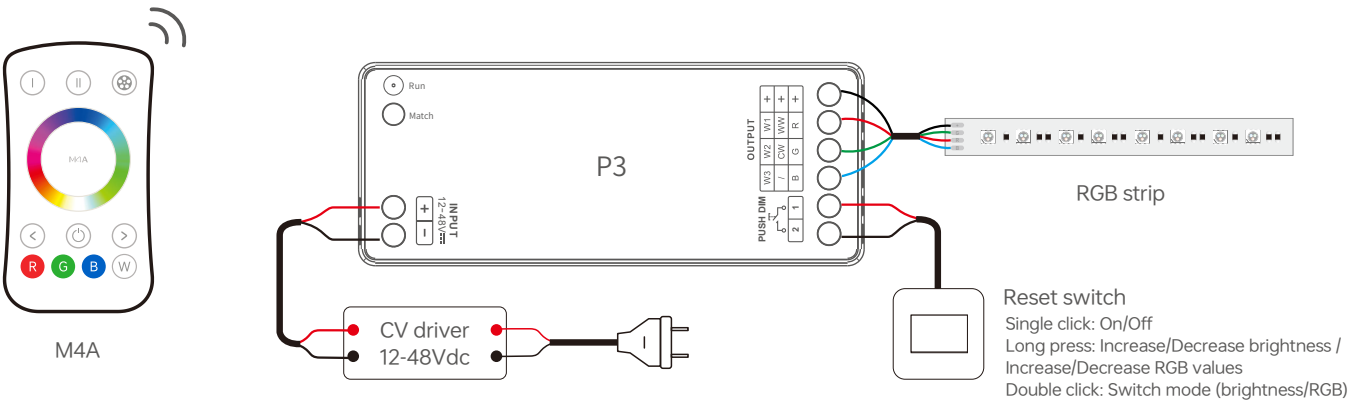
Color	R/G/B values
Red	R100% G0% B0%
Yellow	R100% G100% B0%
Green	R0% G100% B0%
Cyan	R0% G100% B100%
Blue	R0% G0% B100%
Purple	R100% G0% B100%
White	R100% G100% B100%

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			



Controller

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:

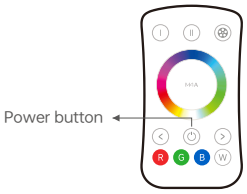
Press and hold the power button until the controller's load indicator flashes rapidly and then stays lit, and the color ring changes when touched.
The programming is complete.

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.



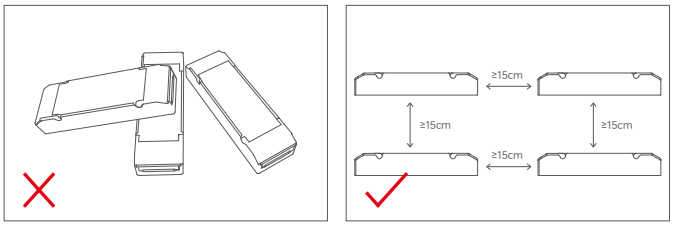
Note: A single controller can pair with up to 10 remote controls. If more than 10 remote controls are paired, the ID code of the first remote control will be automatically deleted.

Clear Code

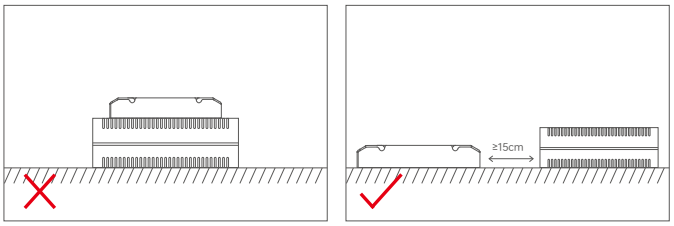
How to delete all remote controls:

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.

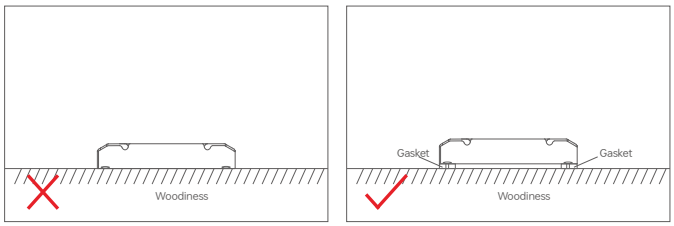
Installation Precautions



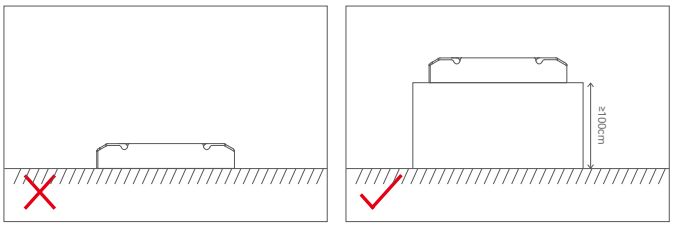
Please do not stack the products. The distance between two products should be ≥15cm so as not to affect heat dissipation and the lifespan of the products.



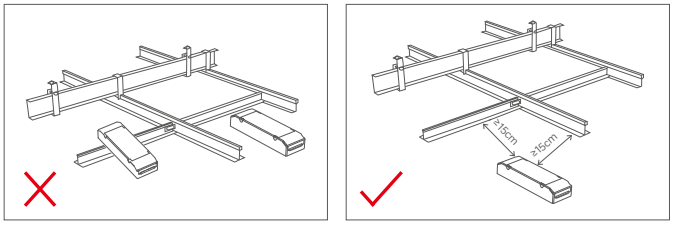
Do not place the product on top of a power supply. The distance between the product and the power supply should be ≥15 cm so as not to affect heat dissipation and the lifespan of the product.



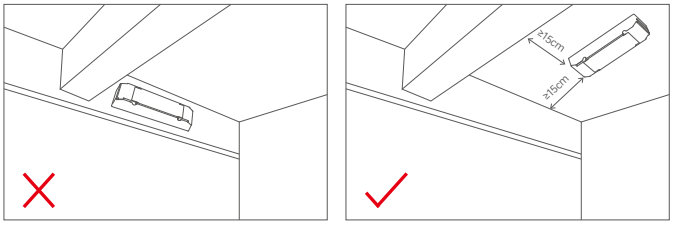
Do not fix the product tightly against the wooden board with screws. Please add a washer ≥7 mm thick under the mounting screws to leave a gap for effective heat dissipation, so as to avoid affecting the heat dissipation and service life of the product.



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.

Mini Pro

M4A+P3 **RF2.4G**

LED RGB控制器套装

- 体积小、重量轻，外壳采用科思创/三星PC阻燃V0级原料；
- 带软启动渐亮功能，让人眼视觉更舒适；
- RF 2.4GHz无线信号，免布信号线；
- 超灵敏触摸亮度环调节颜色；
- 带有颜色快捷功能，可一键切换不同颜色值；
- 内置9种动态模式和7种静态模式；
- 一个遥控器在有效的控制范围内可控制无数个控制器；
- 同一组或同一分区的控制器具有动态同步功能；
- 操作时有LED灯状态指示。

M4A P3

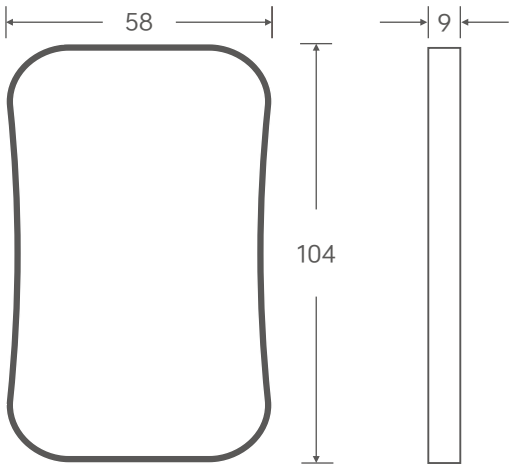
技术参数

M4A+P3

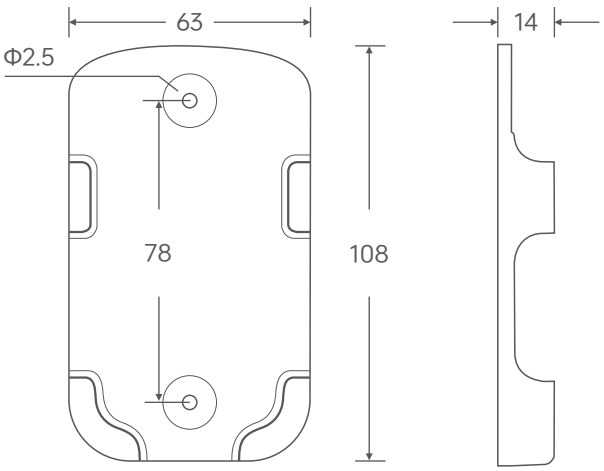
遥 控 器	M4A	控 制 器	P3
产品颜色	白色	输入信号	RF2.4GHz
调光类型	RGB	输入电压	12-48V ⎓
无线类型	RF 2.4GHz	输出电压	12-48V ⎓
工作电压	3Vdc（纽扣电池CR2032×1）	通道数量	3通道
待机电流	＜2uA	复位开关	有
遥控距离	30米（无障碍时）	负载电流	Max. 15A
工作温度	-10℃~50℃	负载功率	180W@12V 360W@24V 432W@36V 432W@48V
产品重量	40克±5克	保护	短路、过温、过流保护、防反接保护
尺寸	104×58×9mm（遥控器） 108×63×14mm（遥控器+背托）	产品重量	46克±5克
		尺寸	L91×W37×H21(mm)

产品尺寸

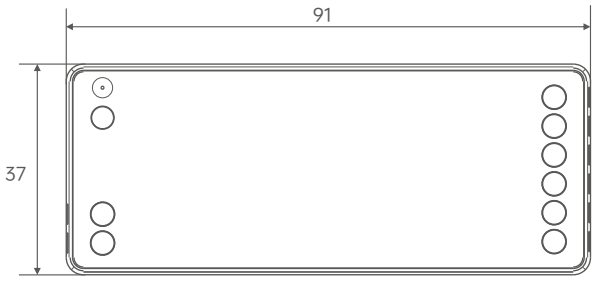
单位：mm



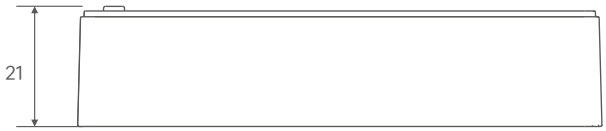
遥 控 器



遥 控 器 背 托



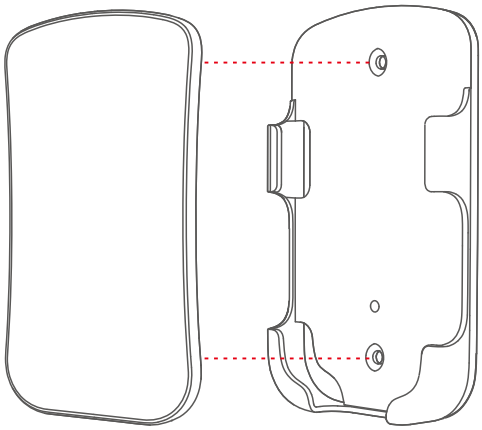
控 制 器



产品:
41mm

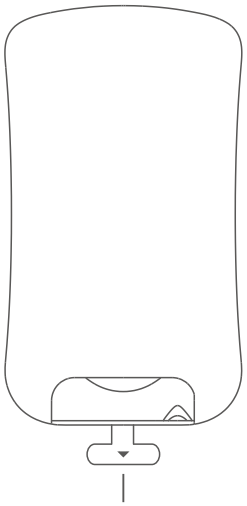
开孔尺寸:
Φ 43-45mm

产品安装



可以选择2种方式固定遥控器背托:

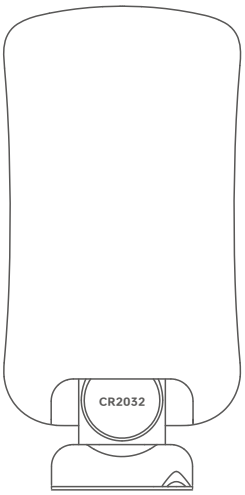
1. 用两个螺丝将遥控器背托固定在墙上。
2. 用3M胶将遥控器背托固定在墙上。



注意：首次使用前，请抽出电池绝缘片

更换电池

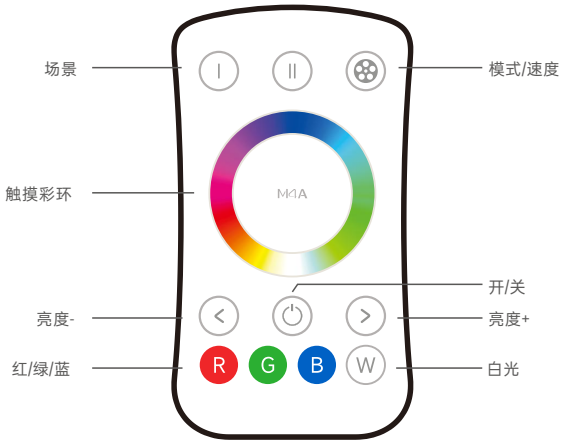
① 使用螺丝刀将底部螺丝拧开。



② 抽出电池仓，更换电池。

③ 更换电池后，拧紧螺丝。

功能介绍



开/关：开启或关闭灯光。

触摸彩环：触摸RGB色环选色。

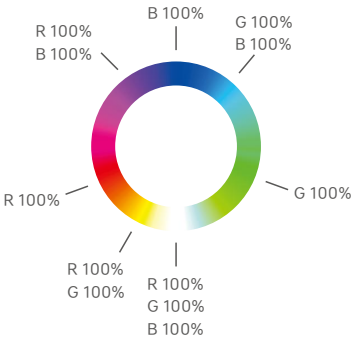
模式/速度：短按切换动态模式和静态模式；在动态模式时，长按调节速度；同时短按“R”“W”键循环播放动态模式。

亮度+/-：调节亮度±，短按十一级；长按1-6秒连续255级调节。

红/绿/蓝：短按打开或关闭静态红色/绿色/蓝色通道；长按1-6秒连续255级调节当前通道的亮度±。

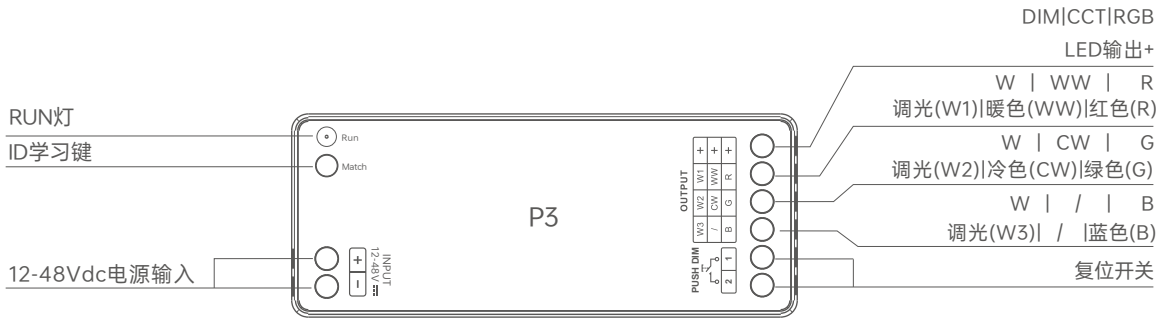
白光：对于RGBW灯，短按打开或关闭W通道；长按1-6秒连续255级调节W亮度±。

场景：短按调用场景；长按2秒将当前灯光状态保存到场景中。



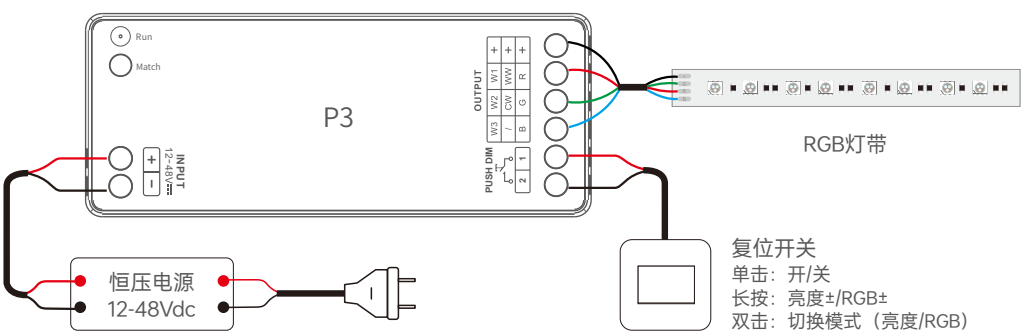
颜色	R/G/B数值
红色	R100% G0% B0%
黄色	R100% G100% B0%
绿色	R0% G100% B0%
青色	R0% G100% B100%
蓝色	R0% G0% B100%
紫色	R100% G0% B100%
白色	R100% G100% B100%

动态模式	1	红紫渐变	静态模式	10	纯红
	2	蓝紫渐变		11	纯绿
	3	色温渐变(暖黄、冷白)		12	纯蓝
	4	三色渐变(RGB)		13	纯黄
	5	六色渐变(红绿蓝黄紫青)		14	纯紫
	6	七色跳变(红绿蓝黄紫青白)		15	纯青
	7	七色渐变(红绿蓝黄紫青白)		16	混光白
	8	三色渐明渐暗(RGB)			
	9	白色渐明渐暗			



控制器

接线应用图



对码

按键对码

1.短按控制器的ID学习键，负载灯闪烁，请在10秒内完成以下操作。

2.对码Mini Pro系列单区遥控：

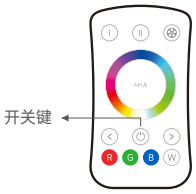
长按开关键，直到控制器负载灯快闪后常亮，且触摸色环有变化，学习成功。

上电对码

1. 控制器断电后重新上电，请在10秒内完成以下操作。

2.对码Mini Pro系列单区遥控：

长按开关键，直到控制器负载灯快闪后常亮，且触摸色环有变化，学习成功。



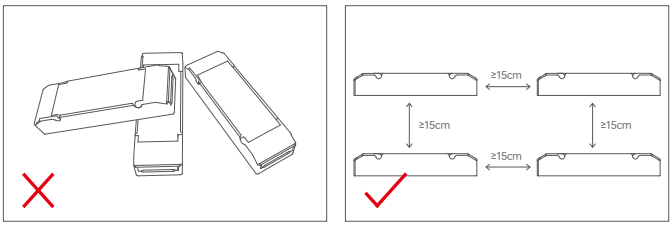
注：一台控制器最多可配对10个遥控器，配对超过10个遥控器将会自动删除最前面的遥控器ID码。

清码

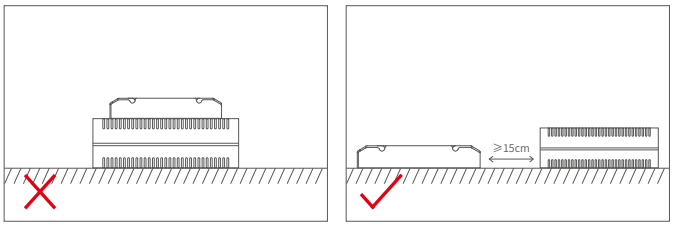
删除全部遥控器方法：

长按控制器ID学习键6秒，控制器负载灯快闪4次后常亮，清码成功。

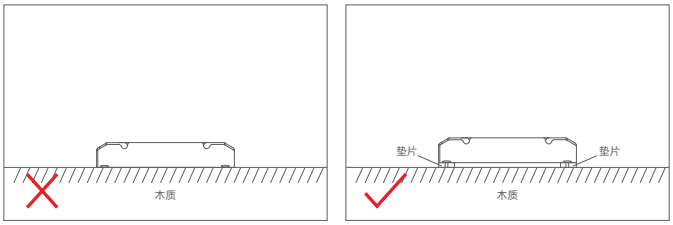
安装注意事项



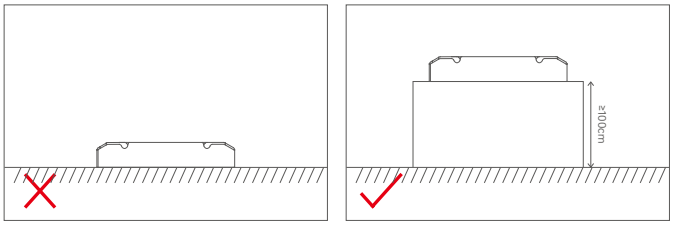
请勿将产品堆叠摆放，产品与产品间隔距离应≥15cm，避免影响产品散热和使用寿命。



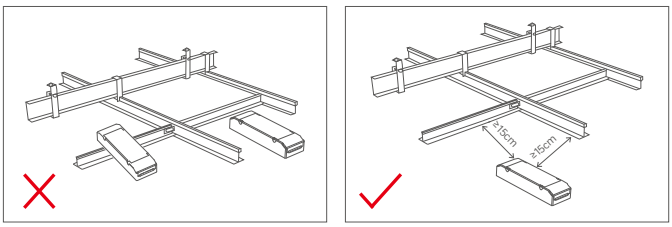
请勿将产品置于电源上方，产品与电源间隔距离应≥15cm，避免影响产品散热而减少使用寿命。



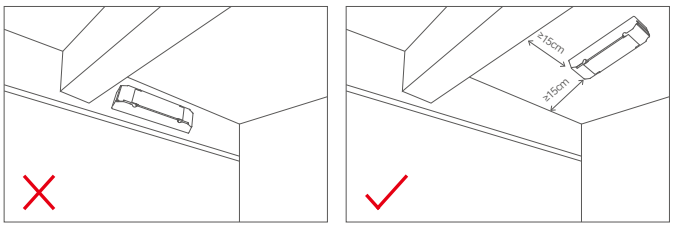
请勿将产品螺丝固定紧贴于木板，应在固定螺丝下增加≥7mm的垫片，留点空隙可以有效散热，避免影响产品散热和使用寿命。



请勿将产品放置在地面上。产品与地面之间的距离应≥100cm，以免信号干扰影响使用。



请勿将产品大面积接触金属物体(如：龙骨架)，间隔距离应≥15cm，以免信号干扰影响使用。



请勿将产品安装在横梁、墙角等位置，间隔距离应≥15cm，以免信号干扰影响使用。

注意事项

- 请由具有专业资格的人员进行调试安装。
- 我司产品（专有型号除外）不能防水防雷，需避免日晒雨淋，如安装在户外，请用防水箱和防雷装置。
- 良好的散热条件会延长产品的使用寿命，请把产品安装在通风良好的环境。
- 安装时，避免靠近大面积金属物体，或堆叠摆放，以免信号干扰影响使用；
- 避免安装在雷区、强磁场和高压区域；
- 请检查使用的工作电压是否符合产品的参数要求。
- 使用的电线直径大小必须能足够负载连接的LED灯具，并确保接线牢固。
- 通电调试前，应确保所有接线正确，以避免因接线错误而导致灯具损坏。
- 如果发生故障，请勿私自维修；如果有疑问，请联系供应商。

＊ 本说明书的内容如有变更，恕不另行通知。若内容与您使用的功能有所不同，则以实物为准。如有疑问，请与供应商联系。

保修条例

- 自出厂之日起保修服务期为5年。
- 在保修服务期内出现产品质量问题我司将给予免费修理或更换服务。

非保修条例：

属下列情况不在免费保修或更换服务范围之内：

- 已经超出保修服务期；
- 过高电压、超负载、操作不当等人为造成的损坏；
- 产品外形严重损坏或变形；
- 自然灾害以及人力不可抗拒原因造成的损坏；
- 产品保修标签和产品唯一条形码损坏；
- 无我司签订的合同或发票凭证。

1. 修理或更换是我司对客户的唯一补救措施。我司不承担任何附带引起的损害赔偿责任，除非在适用法律范围之内。
2. 我司享有修正或调整本保修条款的权利，并以书面形式发布为准。