LED RGBW Controller Kit

- The controller housing is made from Covestro/Samsung V0-rated flame-retardant PC material.
- Features a soft-start gradual dimming function for enhanced visual comfort.
- 2.4 GHz RF wireless transmission ensures a stable signal and strong resistance to interference.
- Equipped with a dedicated ON/OFF button for one-touch control of the lights.
- Adjust brightness by touching the brightness slider or pressing the brightness button; a short press cycles through 11 brightness levels, while a long press enables stepless dimming
- Features 4 preset scene modes with quick access; custom scenes can be saved by long-pressing the corresponding button
- One remote control can be paired with multiple controllers, and one controller can be paired with up to 10 remote controls
- Supports synchronized dimming across controller groups
- Equipped with a plastic stand for convenient, tidy storage and easy access



Technical Specifications

Q4A+P4

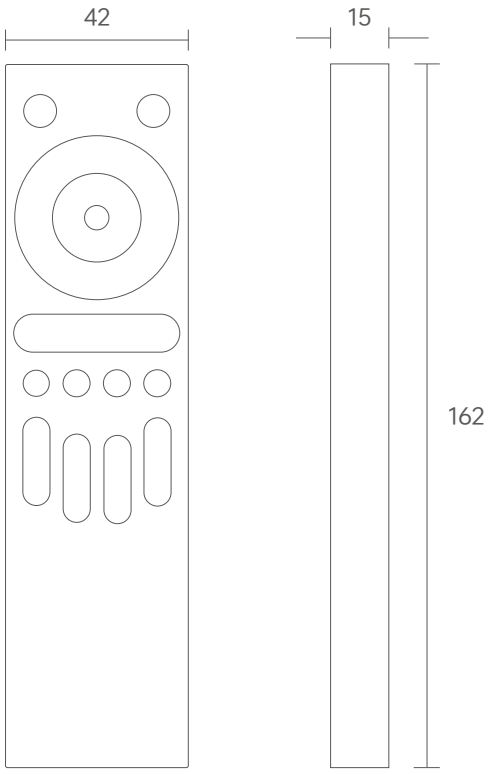
Product Model	Q4A
Regional Control	Single Zone
Dimming Type	RGBW
Wireless Type	RF 2.4GHz
Power Supply	3Vdc，2×AAA Note: Batteries not included.
Standby Current	< 3uA
Operating Temp.	-10℃~50℃
Product Weight	Remote: L162×W42×H15mm; Bracket: L60×W46×H19mm
Dimensions	60g±5g(Bracket included)
Set Size	L228×W155.5×H22mm
Set Weight	160g±5g

Controller	P4
Input Signal	RF2.4GHz
Input Voltage	12-48V ⎓
Output Voltage	12-48V ⎓
Number of Channels	4 channel
Reset Switch	No
Load Current	Max. 15A
Load Power	180W@12V 288W@24V 360W@36V 480W@48V
Protection	Short-circuit, over-temperature, overcurrent, and reverse connection protection
Product Weight	-25~50℃
Dimensions	L91×W37×H21(mm)
Product Weight	46g±5g

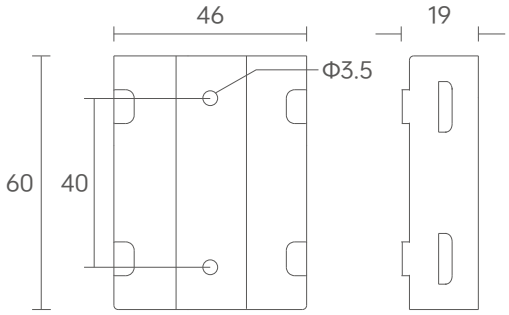
E517856 RoHS RED

Dimensions

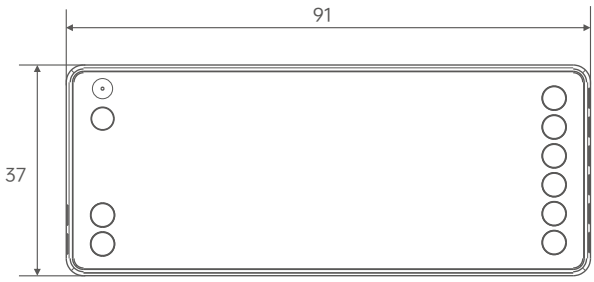
Unit: mm



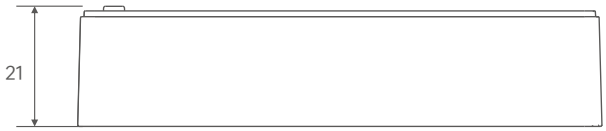
Remote



Plastic Bracket



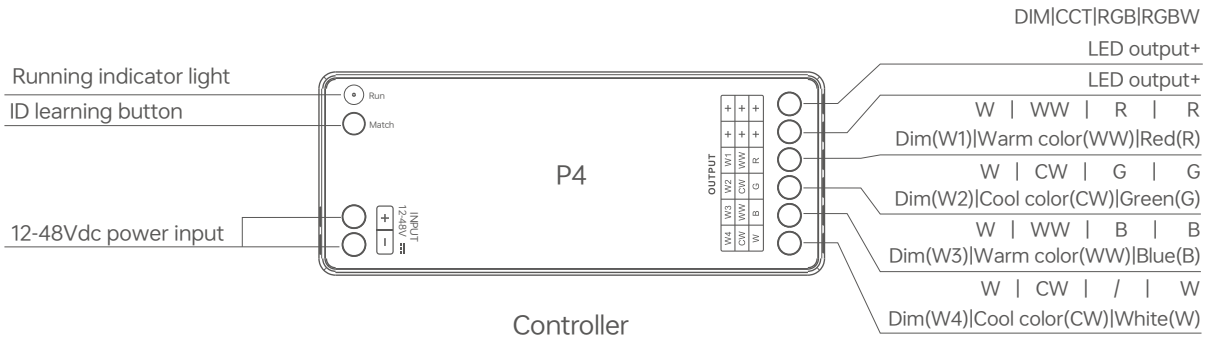
Controller



Product: 41mm

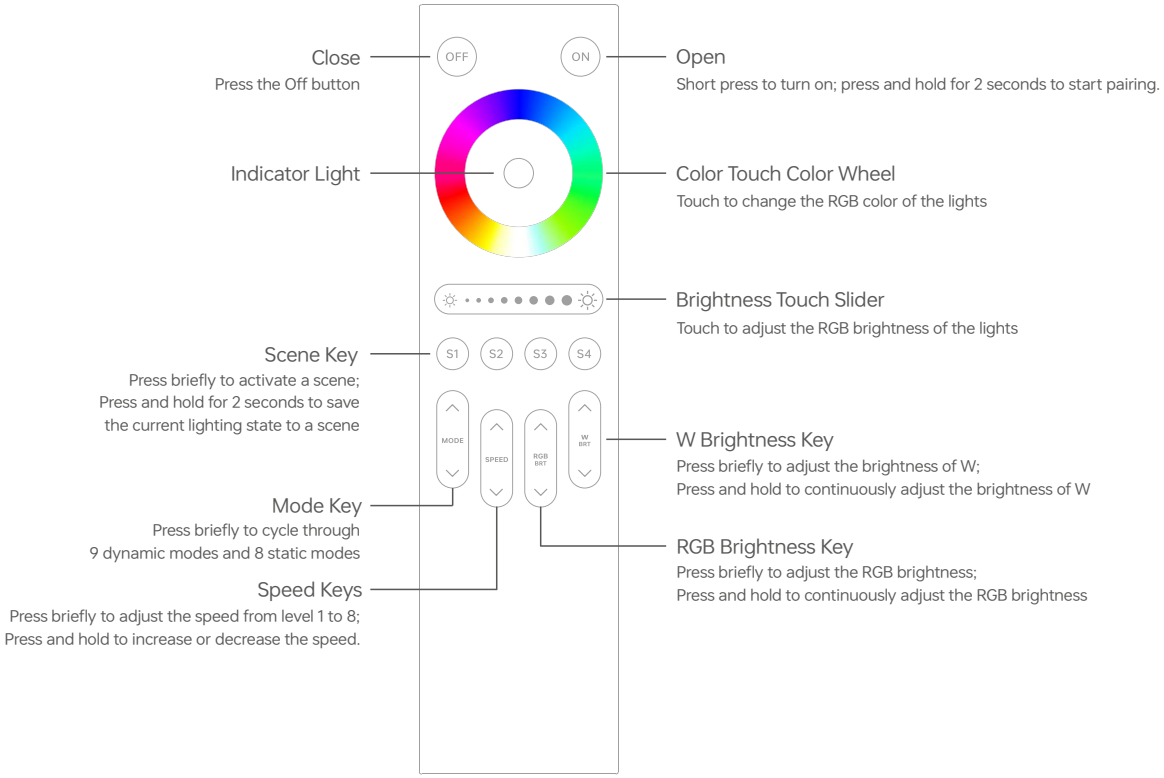
Cutout dimensions: Φ 43-45mm

Features

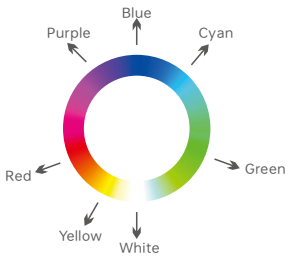


Controller

Button Functions



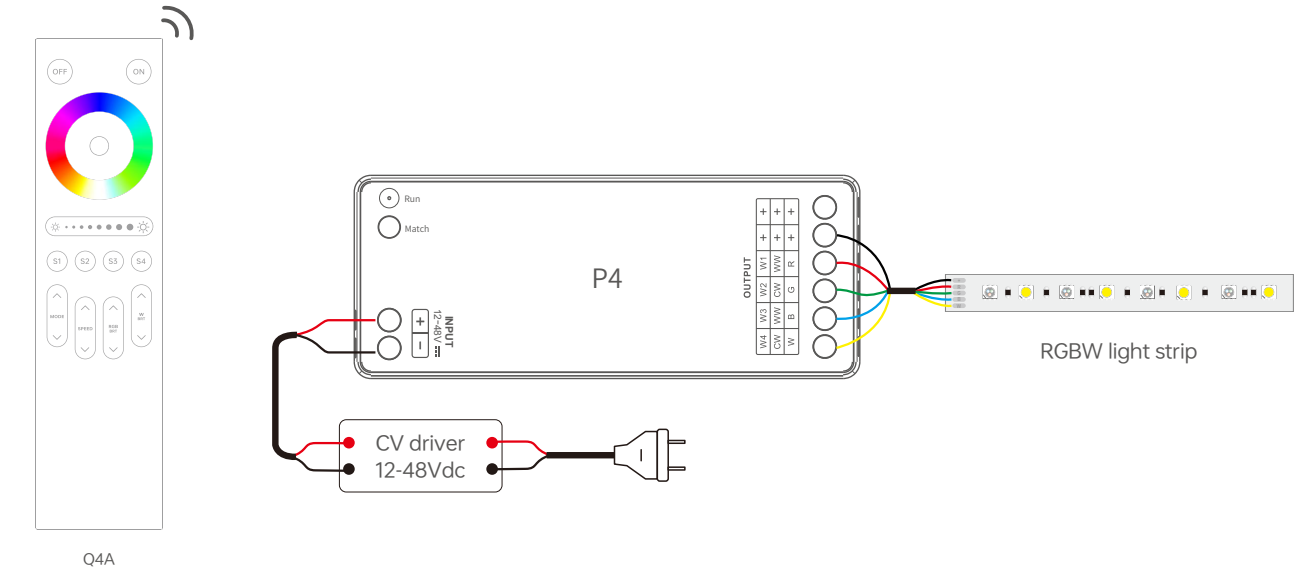
Q4A



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%

Preset 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)		17	Black
	9	White gradually brightens and darkens			

Wiring Diagram



Q4A

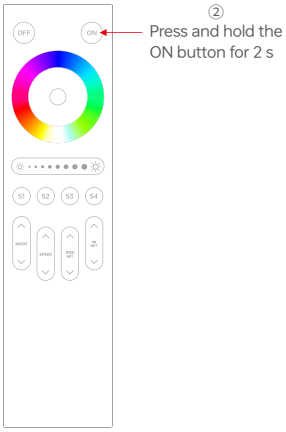
*Can be paired with up to 10 remote

Code Pairing

Button Pairing

1. Short press the controller's ID learning button. The load light will flash. Please complete the following operation within 10 seconds.

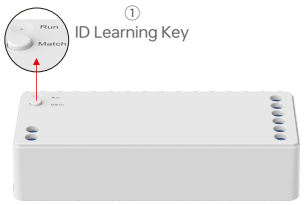
2. Code-matching remote control:
Press and hold the ON button on the remote for 2 seconds. The remote indicator will flash rapidly three times and then go off, indicating successful pairing.



Power-On Pairing

1. After powering off and restarting the controller, complete the following operation within 10 seconds.

2. Pair the remote:
Press and hold the ON button on the remote for 2 seconds. The remote indicator will flash rapidly three times and then turn off, indicating successful pairing.



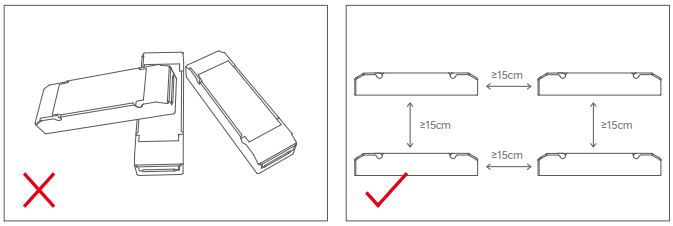
Note: A single controller can be paired with up to 10 remote controls. If more than 10 remote controls are paired, the ID code of the first remote control will be automatically deleted.

Clear Code

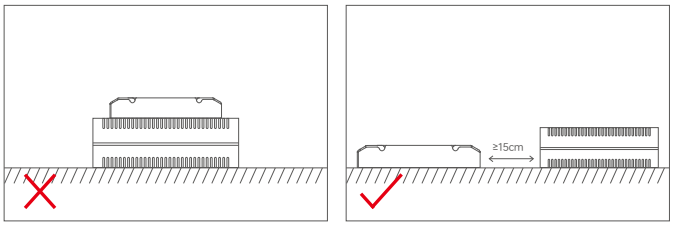
How to delete all remote controls:
Press and hold the controller's ID learning button for 6 seconds. The load light will flash rapidly four times and then stay on, indicating that all paired IDs have been cleared.



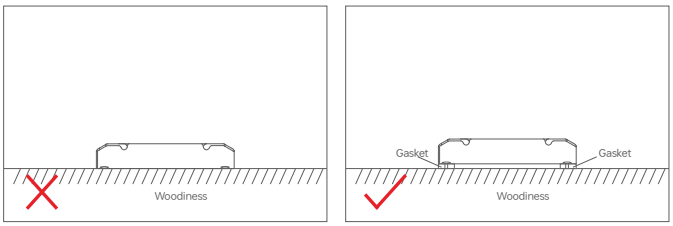
Installation Precautions



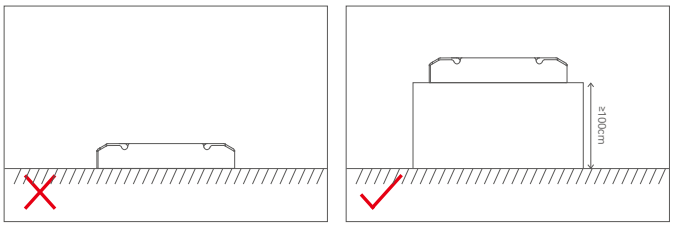
Please do not stack the products. The distance between two products should be ≥15cm so as not to affect heat dissipation and the lifespan of the products.



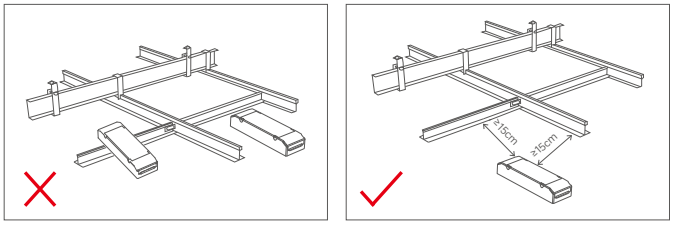
Do not place the product on top of a power supply. The distance between the product and the power supply should be ≥15 cm so as not to affect heat dissipation and the lifespan of the product.



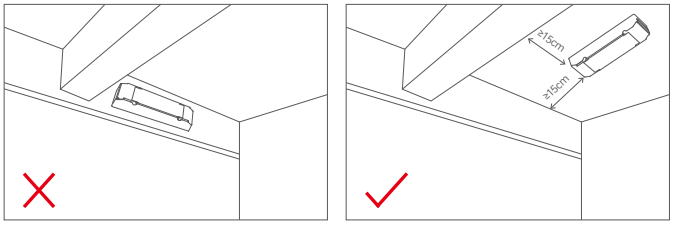
Do not fix the product tightly against the wooden board with screws. Please add a washer ≥7 mm thick under the mounting screws to leave a gap for effective heat dissipation, so as to avoid affecting the heat dissipation and service life of the product.



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 period: 5 years from the date of manufacture.
- 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.

FCC Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1)This device may not cause harmful interference.
(2)This device must accept any interference received, including interference that may cause undesired operation.
2.Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Note: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
The device has been evaluated to meet general RF exposure requirement.
The device can be used in portable exposure condition without restriction.

LED RGBW控制器套装

- 控制器外壳采用科思创/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
- RF2.4G无线传输，信号稳定、抗干扰能力强
- 配备独立开 / 关按键，可实现灯光一键快捷开关
- 通过触摸亮度滑条及亮度键调节亮度，短按亮度键调节11档亮度，长按无极调光
- 预置4个场景模式，支持快捷调用，同时可通过长按保存自定义场景
- 一个遥控器可搭配多个控制器，一个控制器可搭配多达 10 个遥控器
- 支持控制器群组同步调光
- 配备塑胶支架，便捷取用，整洁有序



技术参数

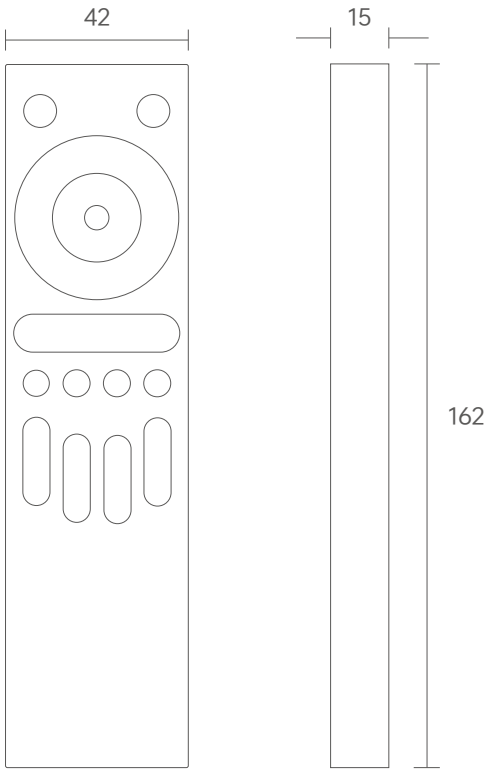
Q4A+P4

遥 控 器	Q4A	控 制 器	P4
区域控制	单区	输入信号	RF2.4GHz
调光类型	RGBW	输入电压	12-48V ⎓
无线类型	RF 2.4GHz	输出电压	12-48V ⎓
工作电压	3Vdc，2×AAA(7号) 注：电池需另行选购	通道数量	4通道
		复位开关	无
待机电流	< 3uA	负载电流	Max. 15A
工作温度	-10℃~50℃	负载功率	180W@12V 288W@24V 360W@36V 480W@48V
规格尺寸	遥控器: L162×W42×H15mm 支架: L60×W46×H19mm	保护	短路、过温、过流保护、防反接保护
产品重量	60g±5g（含支架）	工作温度	-25~50℃
套装尺寸	L228×W155.5×H22mm	规格尺寸	L91×W37×H21(mm)
套装重量	160g±5g	产品重量	46g±5g

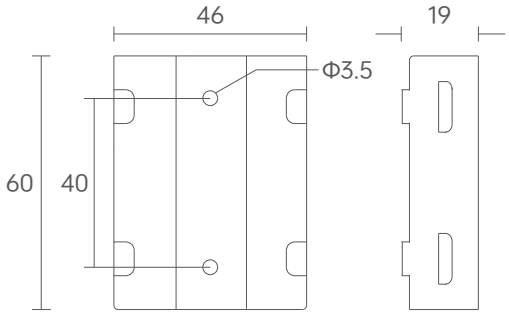
E517856 RoHS RED

结构尺寸

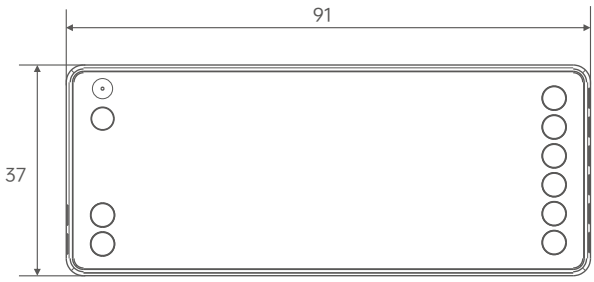
单位：mm



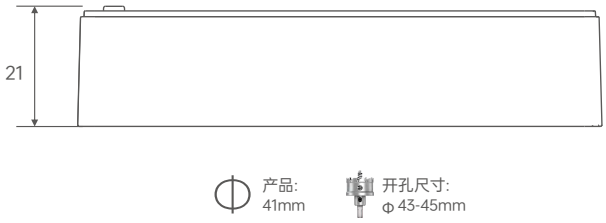
遥控器



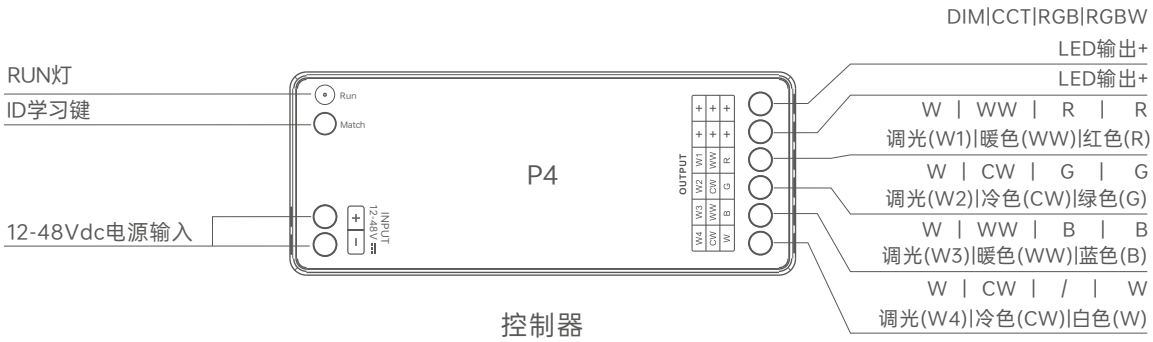
塑胶支架



控制器

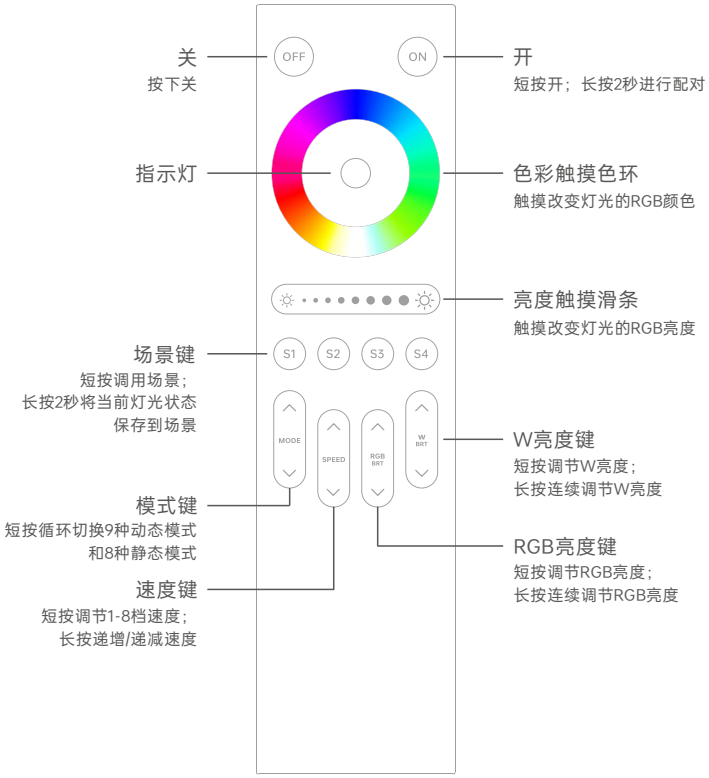


功能介绍

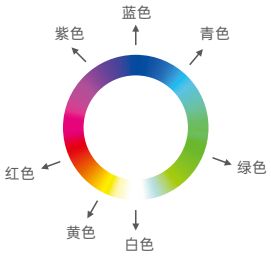


控制器

功能介绍



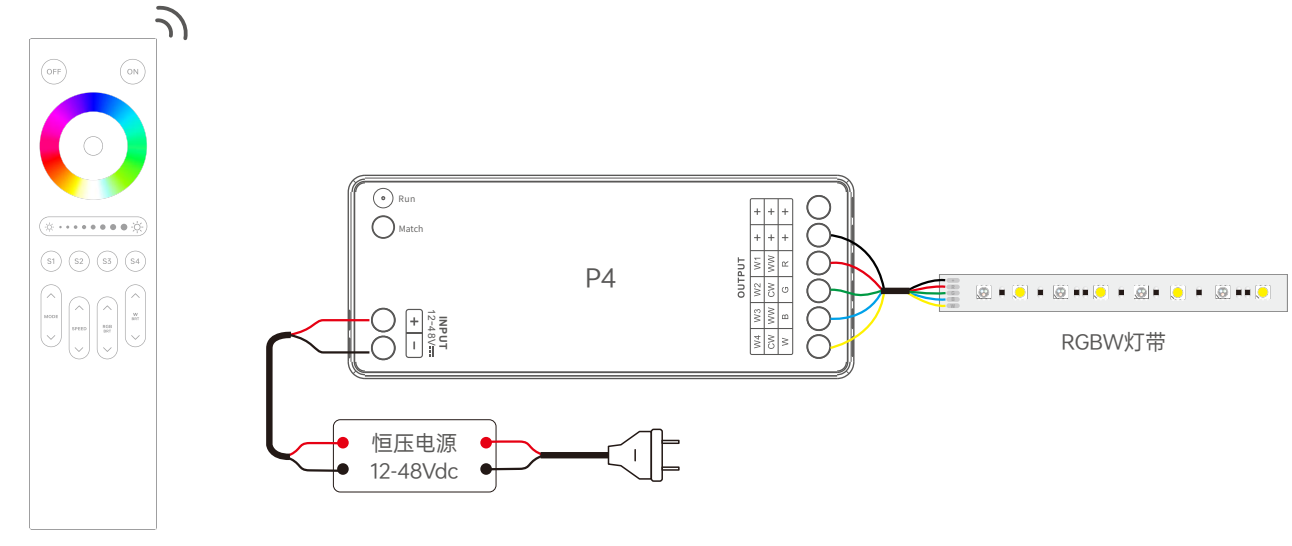
Q4A



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%

预设动态模式			静态模式		
	1	红紫渐变		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)		17	黑色
	9	白色渐明渐暗			

接线示意图



Q4A

⋮

*可搭配多达 10 个遥控器

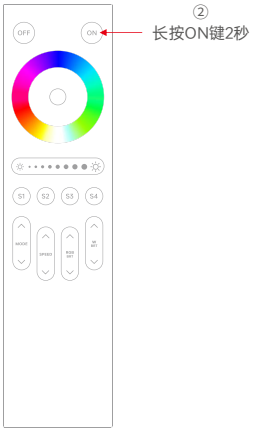
对码

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.对码遥控器：

长按遥控器ON键2秒，遥控器指示灯快闪3次后熄灭，即学习成功。



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.对码遥控器：

长按遥控器ON键2秒，遥控器指示灯快闪3次后熄灭，即学习成功。



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。

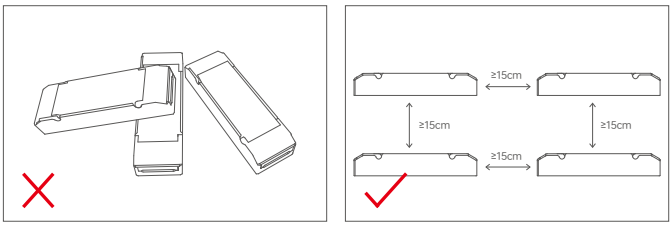
清码

删除全部遥控器方法：

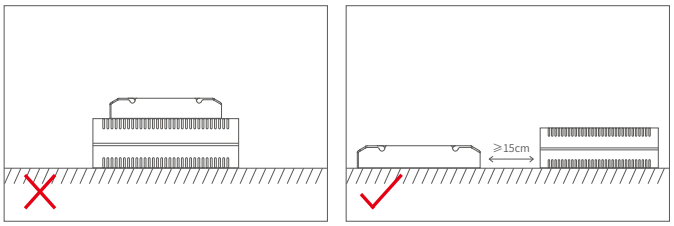
长按控制器ID学习键6秒，控制器负载灯快闪4次后常亮，清码成功。



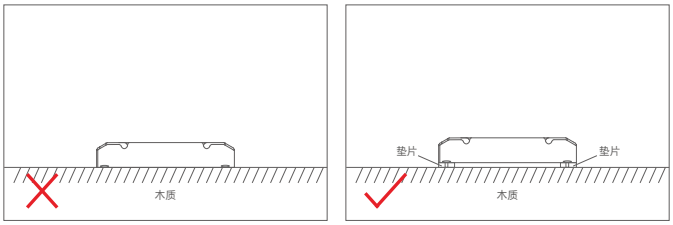
安装注意事项



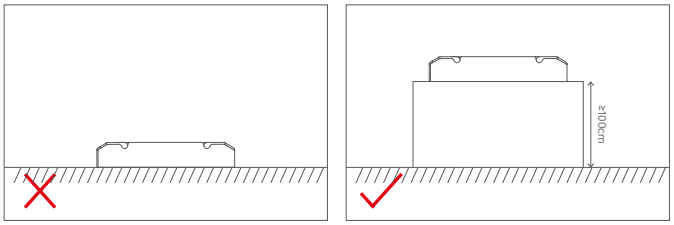
请勿将产品堆叠摆放，产品与产品间隔距离应≥15cm，避免影响产品散热和使用寿命。



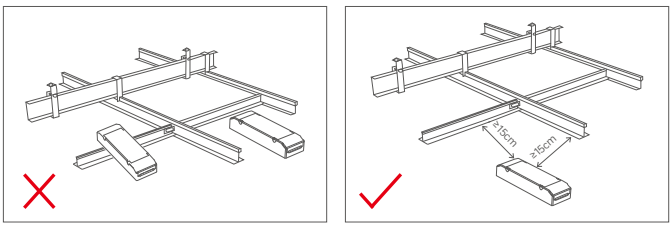
请勿将产品置于电源上方，产品与电源间隔距离应≥15cm，避免影响产品散热而减少使用寿命。



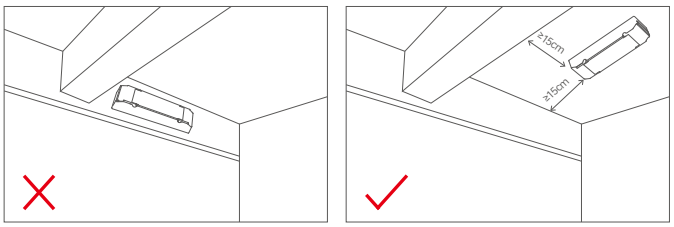
请勿将产品螺丝固定紧贴于木板，应在固定螺丝下增加≥7mm的垫片，留点空隙可以有效散热，避免影响产品散热和使用寿命。



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。

微功率设备使用说明

(1) 本产品使用的 RF2.4GHz 技术符合“微功率短距离无线电发射设备目录和技术要求”的具体条款和使用场景，采用的天线类型和性能，控制、调整及开关等使用方法；

(2) 不得擅自改变使用场景或使用条件、扩大发射频率范围、加大发射功率（包括额外加装射频功率放大器），不得擅自更改发射天线；

(3) 不得对其他合法的无线电台（站）产生有害干扰，也不得提出免受有害干扰保护；

(4) 应当承受辐射射频能量的工业、科学及医疗（ISM）应用设备的干扰或其他合法的无线电台（站）干扰；

(5) 如对其他合法的无线电台（站）产生有害干扰时，应立即停止使用，并采取措施消除干扰后方可继续使用；

(6) 在航空器内和依据法律法规、国家有关规定、标准划设的射电天文台、气象雷达站、卫星地球站（含测控、测距、接收、导航站）等军民用无线电台（站）、机场等的电磁环境保护区域内使用微功率设备，应当遵守电磁环境保护及相关行业主管部门的规定；

(7) 禁止在以机场跑道中心点为圆心、半径5000米的区域内使用各类模型遥控器；

(8) 微功率设备使用时运行的环境条件:运行温度为-10℃~50℃和额定电压为3Vdc。

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，欢迎向我司授权的经销商咨询。

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。