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

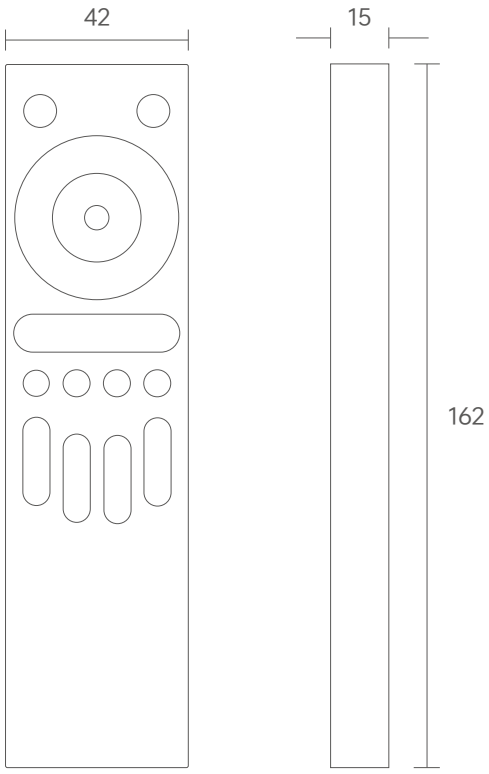
Product Model	Q4A
Regional Control	Single Zone
Dimming Type	RGBW
Wireless Type	RF 2.4GHz
Power Supply	3Vdc，2×AAA Note: Batteries not included.
Standby Current	< 3uA
Operating Temp.	-10℃~50℃
Product Weight	Remote: L162×W42×H15mm; Bracket: L60×W46×H19mm
Dimensions	60g±5g(Bracket included)
Set Size	L228×W155.5×H22mm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

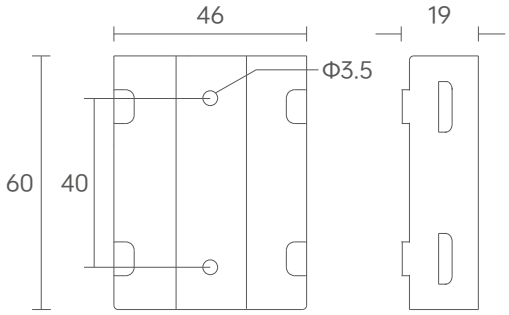
E517856 RoHS RED

Dimensions

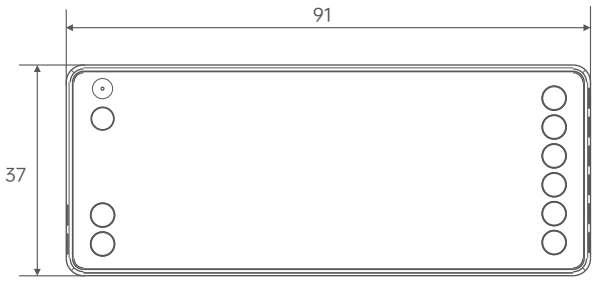
Unit: mm



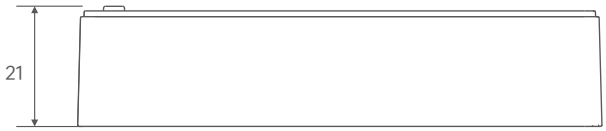
Remote



Plastic Bracket



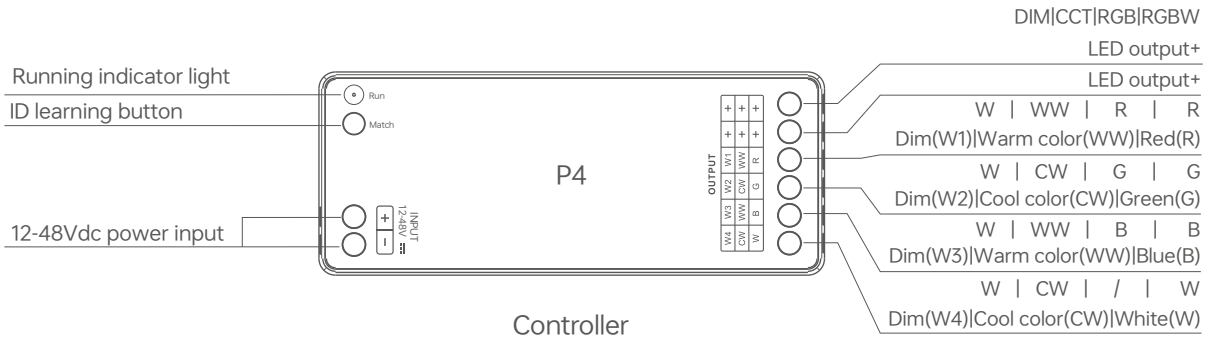
Controller



Product: 41mm

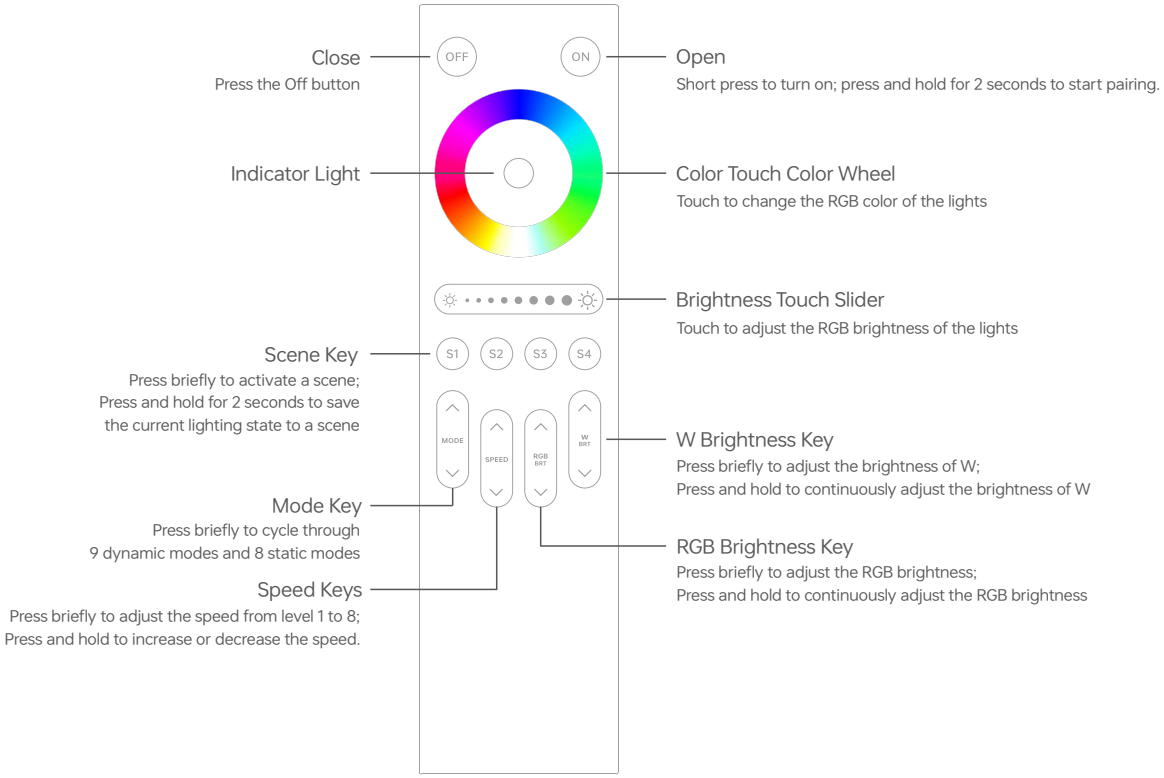
Cutout dimensions: Φ 43-45mm

Features

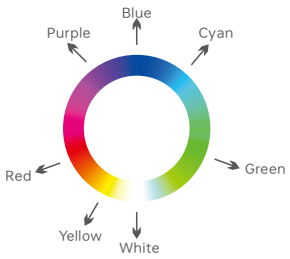


Controller

Button Functions



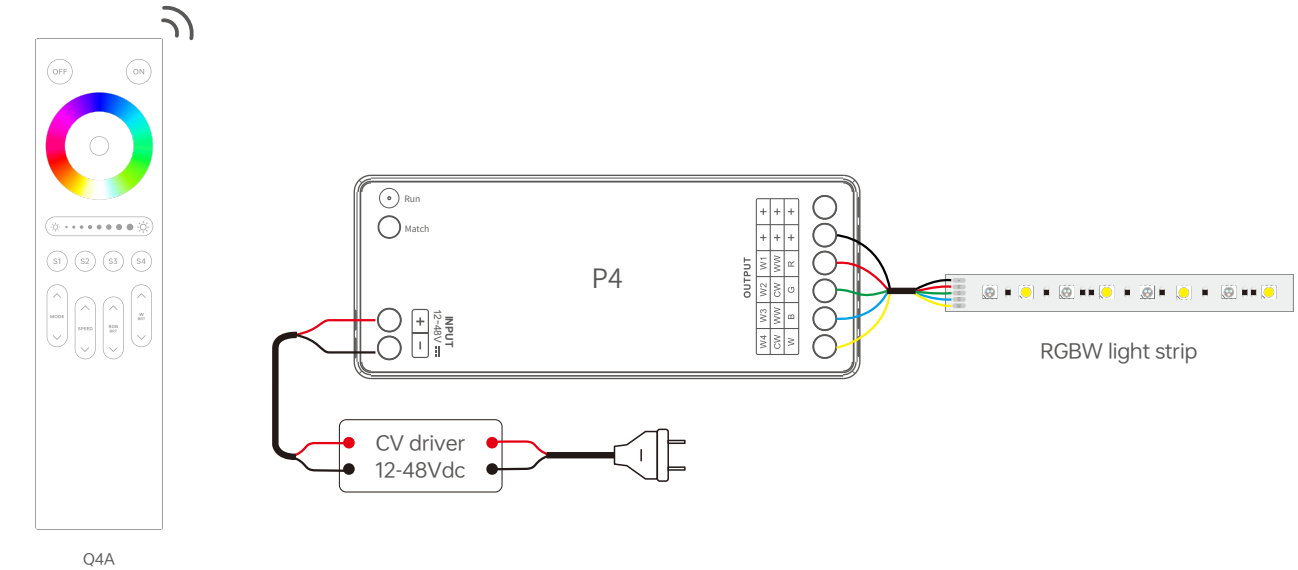
Q4A



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

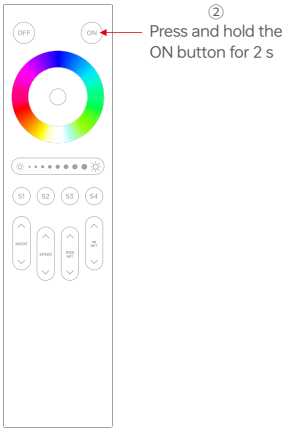
*Can be paired with up to 10 remote

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.

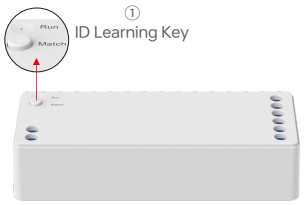
2. Code-matching remote control:
Press and hold the ON button on the remote for 2 seconds. The remote indicator will flash rapidly three times and then go off, indicating successful pairing.



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.



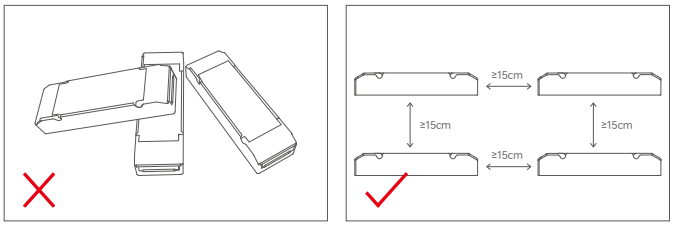
Note: A single controller can be paired with up to 10 remote controls. If more than 10 remote controls are paired, the ID code of the first remote control will be automatically deleted.

Clear Code

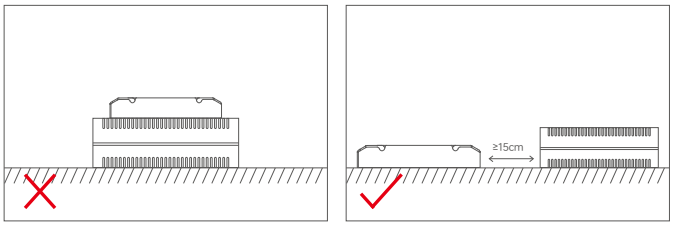
How to delete all remote controls:
Press and hold the controller's ID learning button for 6 seconds. The load light will flash rapidly four times and then stay on, indicating that all paired IDs have been cleared.



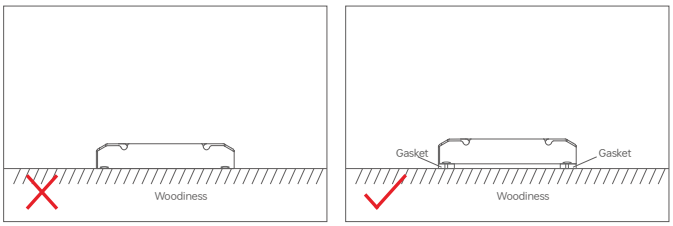
Installation Precautions



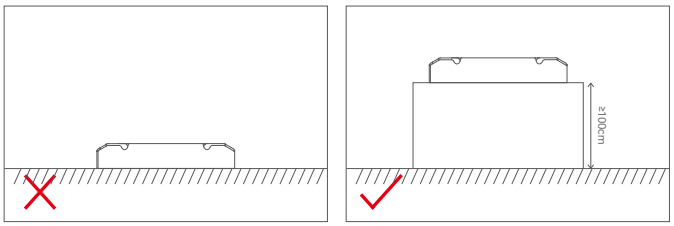
Please do not stack the products. The distance between two products should be ≥15cm so as not to affect heat dissipation and the lifespan of the products.



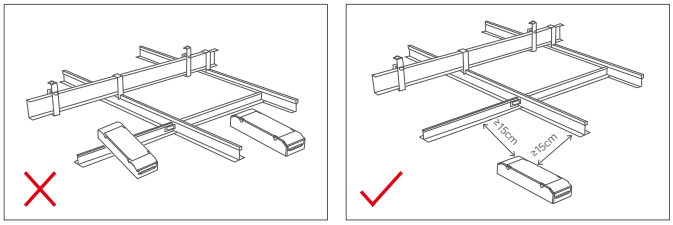
Do not place the product on top of a power supply. The distance between the product and the power supply should be ≥15 cm so as not to affect heat dissipation and the lifespan of the product.



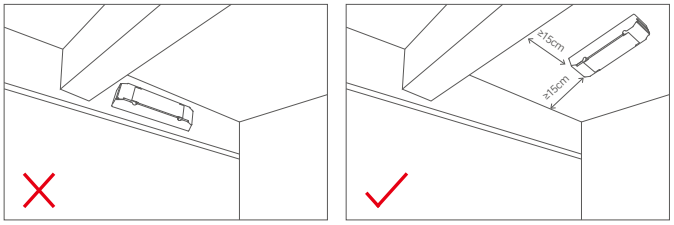
Do not fix the product tightly against the wooden board with screws. Please add a washer ≥7 mm thick under the mounting screws to leave a gap for effective heat dissipation, so as to avoid affecting the heat dissipation and service life of the product.



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.