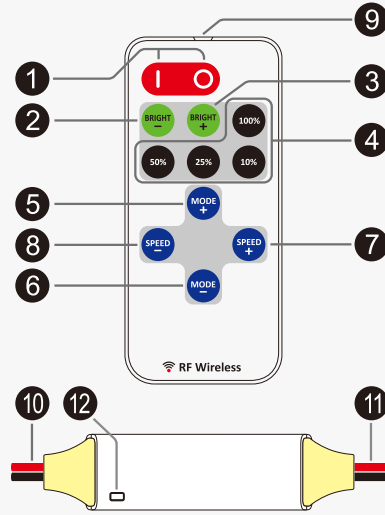


PROFESSIONAL RF CONTROLLER FOR SINGLE COLOR LED LIGHTING

P2SCRF / P2SC

User's Manual

- Full Protection
- Waterproof Option
- Dynamic Modes
- RF Remote Controller
- Smooth Change Effect
- Easy Remote Pairing
- Flicker Free
- Brightness Shortcut Key



- P2SCRF – remote controller included.
- P2SC – remote controller NOT included.

13. Using Remote

Please pull out the battery insulating tape before using. The remote controller use CR2025 cell battery, it can last for 2 years for normal usage. For proper receiving remote signal, please do not install the controller in closed metal parts.

14. Pairing New Remote

The remote and main unit is 1 to 1 paired as default. Further more, one main unit can be paired to 3 remote controllers and every remote can be paired to any main unit. Please do following steps to pair new remote:

- 1). Plug off the power of main unit and plug in again after 5 seconds.
- 2). Press remote '50%' and '10%' key together in 5 seconds after main unit power on.

After this operation, the indicator will flash white for 3 times to display the command is accepted, the main unit now will recognize the new remote. Only the latest paired 3 remote controllers can be recognized.

15. Free Remote Pairing Mode

In some specific cases, the controller unit may need to be controlled with any remote. Please do following steps for this free remote pairing mode:

- 1). Plug off the power of main unit and plug in again after 5 seconds.
- 2). Press 'ON' and 'BRIGHT+' key together in 5 seconds after main unit power on.

After this operation, the indicator will flash yellow for 3 times to display the command is accepted, the main unit now will recognize any remote. To pair the main unit back to

specific remote, please repeat the 'Pairing New Remote' operation.

Advanced Features

16. Waterproof

There's waterproof option for this LED controller, please check with your dealer if your controller is waterproofed. The waterproofed controller can be used under water within depth of 30 meters.

Note: The remote receiving sensitivity will decrease when controller installed under water, please setup the controller before installing under water.

17. Flicker Free

Base on the PWM working mode, This series controllers switch LED on and off at high speed to achieve displaying different color and brightness. At some moving application or video at slow motion, the on-off flicker might be visible. The standard models work at 1KHz switching frequency which is already non-flicker at most application. For more strict requirements, the advanced model works at 8KHz frequency and is fully flicker free even at fast moving application or slow motion video. Please check with your dealer if you're using the fully flicker free model.

The controller can absorb most unwanted switching interference, for better performance please avoid to drive strong inductive effect loads. Especially for fully flicker free model, please avoid to wire the output in multi turn coil shape or drive inductive load.

Functions

1. Turn On/ Standby

Press 'I' key to turn on unit or press 'O' key to turn off. At power up moment, unit will automatically turn on and restore to previous status.

2/3. Brightness Adjust (Dimmer)

Adjust brightness at lighting mode. Press BRIGHT+ to increase brightness and press BRIGHT- to decrease. Unit will switch to lighting mode when press this key at dynamic mode.

4. Dimmer Adjust Shortcuts

Switch to 100%, 50%, or 25% brightness lighting mode.

5/6. Switch Dynamic Mode

Switch to dynamic mode from lighting mode, or switch between different dynamic modes.

7/8. Speed Adjust

Adjust dynamic modes running speed. Press SPEED+ to increase speed and press SPEED- to decrease. Unit will switch to dynamic mode if press this key at lighting mode.

9. Remote Controller Indicator

This blue indicator will blink when remote controller works.

Hints: The remote controller works at radio frequency, the signal can pass through barrier, so it's not necessary to aim at the controller when operate the remote.

18. Protection

This controller has full protection function for output short circuit, overload, and overheat. The indicator will flash red at overload or short circuit protection and flash yellow at over heat. The controller will automatically recover from protection when working status is good.

Please ensure the LED load is in rated range, not shorted and the controller unit is in a good heat dissipation environment to avoid protection.

Installing

10. Power Supply

The controller unit can work from DC 5V to 24V. The red power cable should be connected to power positive and black to negative. Please make sure the power supply voltage is same as the LED load and the power is capable for the load wattage.

11. LED Output

The controller unit supports constant voltage driving LED products. The red cable should be connected to LED positive and black cable to negative. The red cable is internal connected to power supply positive in controller unit.

The controller unit has output overload protection function, please check whether the output is short circuit or over loaded if the controller stop working.

Operation

12. Status Indicator

This is a full color status indicator. It displays all working status of the controller. It indicates different events as following:

Blue: normal working.

Short single white flash: new command.

Long single white flash: reach mode cycle edge.

Long single yellow flash: reach speed or brightness limit.

Red flash: overload protected.

Yellow flash: overheat protected.

Specification

Dynamic mode	8 modes
PWM Grade	256 levels
Brightness Grade	10 levels
Speed Grade	10 levels
Overload protection	Yes
Overheat protection	Yes
Working Voltage	DC 5-24V
Remote frequency	433.92MHz
Remote distance	>15 meters at open area
Working Temperature	-30°C to +80°C
Rated Output Current	10A
PWM Frequency	1KHz
IP Grade	IP-63
Battery Type	CR2025 / 3V