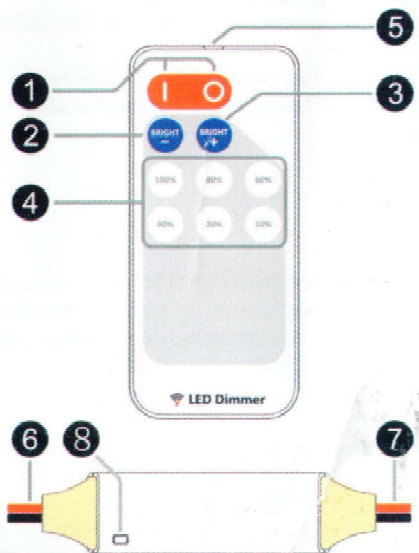


LED Dimmer

User manual

Otie LED Dimmer / 01-010-001

Thank you for purchasing our product. Otie LED Dimmer is designed to drive constant voltage LED products in voltage range of DC 5 V - 24 V. It contains a main control unit and a remote controller. User can adjust LED brightness conveniently via the remote controller.



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Functions

1. Turn ON / Standby

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

2/3. Brightness adjust

Press BRIGHT+ to increase brightness, BRIGHT- to decrease.

4. Dimmer adjust shortcuts

Shortcut key to 100%, 80%, 60%, 40%, 20%, 10% brightness.

5. Remote controller indicator

The 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 operating the remote.

Installation

6. Power supply

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

7. 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 an output overload protection function. If the controller stops working, ensure whether the output is short circuit or overloaded.

Operation

8. Status indicator

Indicator displays all working status of the controller. It indicates different events as following:

- Blue - normal working.
- Short single white flash: new command.
- Long single yellow flash: reach brightness limit.
- Red flash: overload protected.
- Yellow flash: overhead protected.

9. Using remote

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

10. Pairing new remote

As default the remote and main unit are paired 1:1. Further more, one main unit can be paired to 3 remote controllers and every remote can be paired to any main unit.

Do the following steps to pair a new remote:

1. Plug off the power of main unit and plug in again after 5 seconds.
2. After switching the main unit on press remote '100%' and '60%' key together for 5 seconds.

Indicator will flash white for 3 times to display the command is accepted. The main unit will recognize the new remote. Only the latest paired 3 remote controllers can be recognized.

11. Free remote pairing mode

In some specific cases, the controller unit may need to be paired with another remote. In this situation do the following steps:

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

After this operation, the indicator will flash yellow for three times to display the command is accepted. Now the main unit will recognize any remote. To pair back the main unit with a specific remote, repeat the 'Pairing new remote' operation.

Advanced features

12. Waterproof

The unit is waterproof. Max water depth: 30 m.

Note: The remote receiving sensitivity will decrease when controller is installed under water. Setup the controller before installing it under the water.

Specification

| | |
|----------------------|--------------------|
| Brightness grade | 256 levels |
| Brightness shortcut | 6 levels |
| Overload protection | YES |
| Overheat protection | YES |
| Working voltage | 5-24 V DC |
| Remote frequency | 433,92 MHz |
| Remote distance | >15 m at open area |
| Working temp. | -30~80°C |
| Rated output current | 7 A |
| PWM frequency | 1 KHz |
| IP grade | IP68 |