Important: Read all instructions prior to installation.

Tunable White LED Controller with RF Remote

Parts Included

1 - LED Controller
1 - Wireless Remote

1 - CR2025 Battery

Specifications

Color Temp. Grade	7 levels	Working Voltage	5–24 VDC
Dimming	7 levels	Battery	CR2025
PWM Grade	256 Steps	Remote frequency	433.92 MHz
Color Temp. Shortcut	3 shortcuts	Remote control distance	up to 15 m
Brightness Shortcut	3 shortcuts	Rated Output Current	2 x 7 A
Overload Protection	Yes	IP Rating	IP68
Overheat Protection	Yes		

Battery Safety

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

Wireless Remote Functions

1. Turn On/Standby

Press 'I' key to turn on unit or press 'O' key to turn off. Retains last setting between power off and power on.

2. Color Temperature Adjust

To control color temperature, press 'C /T+' key to increase color temperature by increasing the cool white channel output power and decreasing warm white channel output power. Press ' C /T-' key to lower color temperature by increasing warm white channel output power and decreasing cool white channel output power. The overall brightness will remain unchanged when adjusting color temperature.

3. Brightness Adjust

Press 'BRIGHT+' key to increase brightness and 'BRIGHT-' to decrease brightness. The color temperature will remain unchanged when adjusting brightness.

4. Brightness Shortcut

Press one of the shortcut buttons to set the relative shortcut brightness level. 3 shortcut keys '10%' , '50%' and '100%' are available.
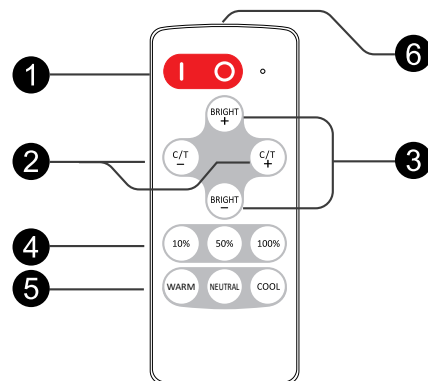
5. Color Temperature Shortcut

Press one of the shortcut buttons to directly select the relative color temperature. 3 shortcut keys 'Warm, 'Neutral' and 'Cold' are available. 'Warm' and 'Cold' is pure warm or cool output, 'Neutral' is half warm and half cool output.

6. Wireless Remote LED Indicator

Flashes blue when remote is operating to indicate that the remote is functioning properly.

⚠ WARNING

- **INGESTION HAZARD**: This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.

Controller Installation

7. Power Supply Wiring

The controller/power supply operates at 5-24VDC. The red wire is positive(+) and the black wire is negative(-) as indicated on the controller housing. Make sure the power voltage matches the LED strip requirement. Incorrect voltage may damage the LED strip.

To Power Supply

To LED Strip

8. LED Output Wiring

The black cable on the output side should be connected to LED positive, the white cable should be connected to cool white LED's negative and the yellow cable connected to warm white LED's negative.

9. Status Indicator

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

Blue: normal working.
Short single white flash: new command executed.
Long single white flash: reach mode or color cycle edge.
Long single yellow flash: reach speed or brightness limit.
Red flash: overload protected.
Yellow flash: overheat protected.

Remote Pairing Options

The included remote will already be paired to the controller. Up to 4 additional wireless remotes can be assigned to operate the LED controller. Additionally, each individual wireless remote can be assigned to an unlimited number of controllers.

Pairing:
1. Disconnect the power to the LED controller, wait 5 seconds, and reconnect.
2. Within 10 seconds of reconnecting the LED Controller, hold the "C/T+" and "C/T-" buttons simultaneously for about 3 seconds.
3. The LED indicator on the LED controller will flash white 3 times indicating the new wireless remote has been successfully assigned. This may be done for a total of 5 wireless remotes.