Important: Read all instructions prior to installation.

Tunable White LED Controller with Wireless RF Remote

Parts Included

1 - LED Controller
1 - Wireless Remote
1 - CR2025 3V Battery

Specifications

Color Temp. Grade	7 levels
Dimming	7 levels
PWM Grade	256 Steps
Color Temp. Shortcut	3 shortcuts
Brightness Shortcut	3 shortcuts
Overload Protection	Yes
Overheat Protection	Yes
Working Voltage	DC 5-24V
Battery	3V CR2025
Remote frequency	433.92MHz
Remote control distance	>15m at open area
Rated Output Current	2 x 7A
IP Rating	IP68
FCC ID	2ACJPRM03

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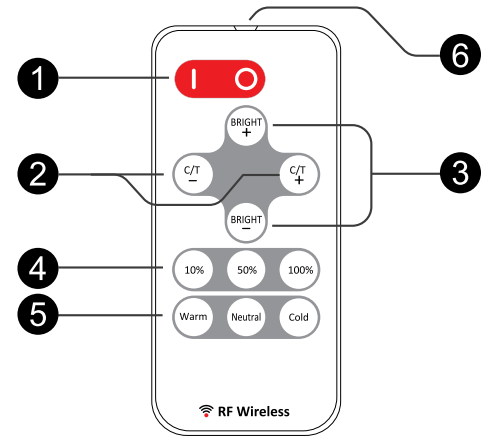
4. Brightness Shortcut
Press one of the shortcut buttons to set the relative shortcut brightness level. 3 shortcut keys '10%' , '50%' and '100%' are available.

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.

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

10. Using Remote
Prepare the wireless remote for use by removing the battery insulator. The remote uses a 3V CR2025 battery. Note: The wireless remote operates using radio frequency(RF). The remote's use is not restricted by normal obstructions such as walls, doors, etc. Do not install controller in metal enclosures.

11. Pairing New Remote
The remote controller and main unit are 1 to 1 paired as default. Further more, one main unit can be paired to 5 remotes and every remote can be paired to any controller.

Please do the following steps to pair a new remote to the controller.

1.) Remote power of the controller and restore power again after 5 seconds.

2.) Press remote 'C/T+' and 'C/T-' key together in 5 seconds after power is restored.

After this operation, the main unit indicator will flash white 3 times, the master unit now recognizes the new remote. Only 5 latest paired remote controllers can be recognized by main unit.

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Advanced Features

12. Waterproof

This controller is fully waterproof with IP68 standard, and can be used under water within the depth of 30 meters. Note: The remote receiving sensitivity will decrease when the controller is installed in a wet environment.

13. Protection

This controller has full protection for ouput short circuit, overload, and overheat. The controller will automatically recover from protection when working status is good.

Please ensure the LED loads are in rated range, outputs are not shorted and the controller unit is in a good heat dissipation environment to avoid damage.

FCC Statement

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, and (2) This device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.