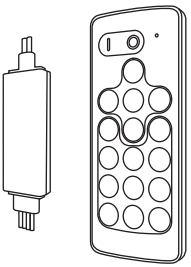
Armacost LIGHTING

Slimline RGB Color LED Controller

With RF Remote Control

Model # 723421



Wireless Remote

Ultra Compact

Wide Voltage Range

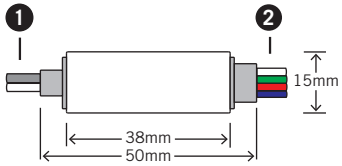
Memory Function

Overheat Protection

Introduction

This LED controller is designed to drive constant voltage RGB LED products such as LED tape light or LED fixtures in a voltage range of 5–24 volts DC. The receiver works with the RF wireless remote control, which allows the user to choose between multiple colors, adjust the LED brightness, and select dynamic effects.

Receiver & wiring



1. Input – from power supply

The controller input and output voltage range is 5–24 volts DC. Make sure the LED lighting voltage is within this range and below the rated wattage of the power supply. Connect input wires from the power supply to the controller as indicated by the polarity markings on the controller (+ to + and – to –).

2. Output – to LED lighting

Observe polarity indicated on the controller when connecting to LED lighting (+ to +, G to G, R to R, and B to B).

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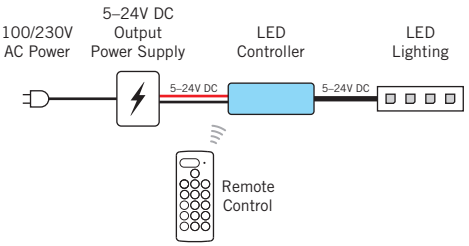
Make sure the voltage of the LED lighting is the same as the power supply and the maximum load doesn't exceed that of the controller.

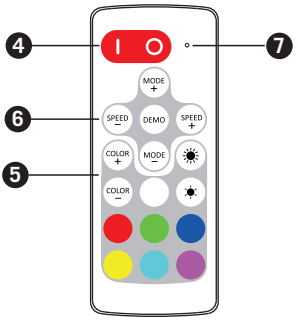
CAUTION: Shorting of output cables could cause permanent damage to controller. Make sure cables are well insulated from each other.

3. Wiring diagram

Connect the power supply to the controller input and the controller output to the LED lighting. The output voltage of the power supply must be the same as the voltage of the LED lighting. Make sure all power cables are conected securely and insulated before powering on.



Remote Control



4. On / Off

Press the "I" key to turn on controller or the "O" key to turn off. The controller will remember the controller state when powered off, and will return to that state when powered back on.

5. RGB color setting

Press the "COLOR+" and "COLOR–" keys to scroll through all the color options. The colored keys are shortcuts for preset colors. Press the ☀ and the ☀ keys to adjust color brightness.

6. Dynamic effects

Press “MODE+” and “MODE–” to select the dynamic effect mode and “SPEED+” and “SPEED–” to adjust the effect speed.

Press the “DEMO” key to play the dynamic effects.

7. Remote indicator

When pressing keys, the indicator blinks if the remote is working properly. If the indicator flashes slowly when pressing keys, battery power is low and it needs to be replaced. Replace with a CR2032 battery.

Remote control operation

8. Using the remote control

Pull out plastic battery insulation tab before use. The RF wireless remote will work through walls and doors. Do not install in a metal enclosure.

9. Pairing with a new remote control

The remote control and receiver are already paired, but up to 5 remotes can be paired to one receiver.

To pair a new remote:

1. Disconnect power to receiver and wait five seconds.
2. Reconnect power and wait ten seconds.
3. Press the “SPEED–” and “SPEED+” keys simultaneously for about three seconds until the remote indicator flashes quickly.

10. De-pairing remotes

To de-pair a remote control, pair the remote you wish to continue using with the controller and any other paired remotes will be de-paired.

Overheat protection

If the controller overheats, it will automatically shut down until the temperature drops to a safe range. If this occurs, check to make sure the output current is below the rated level.

Specifications

Output mode	PWM constant voltage
Working voltage	5–24V DC
Rated output current	3x2A (6A max)
Brightness levels	5
Static colors	30
Dynamic effects	43
Dynamic speed levels	10
PWM frequency	1KHz
PWM physical grade	256 steps
Overheat protection	Yes
Remote frequency	433.92MHz
Remote control range	>49 ft./15m in open areas
Controller dimensions	1.97 X 0.59 X 0.28 in./ 50 X 15 X 7mm

Customer support

Email: support@armacostlighting.com

Phone: 410-354-6000
Monday–Friday, 9 a.m.–5 p.m., ET

Warranty

Limited 1-year warranty. This product is for dry location use only. Improper installation, improper powering, abuse, or failure to use this device for its intended purpose will void warranty. Proof of purchase is required for all returns. Questions? Email support@armacostlighting.com.

Armacost LIGHTING

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