Armacost 713420 Proline RGB Color LED Controller With RF Remote Control User Guide

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With RF Remote Control User Guide

Armacost LIGHTING ®

Proline RGB Color LED Controller

With RF Remote Control

Model # 713420

Full Safety
Protection

High
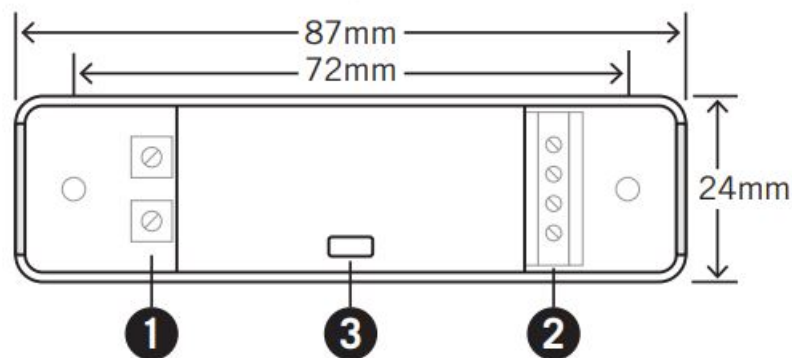Power

Compact
Size

Wide Voltage
Range

Wireless
Remote
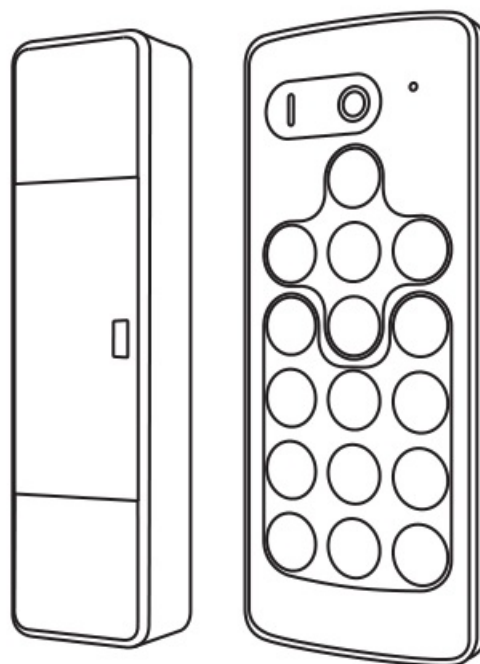
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Introduction

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).

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. Controller status indicator

This light shows the controller status as follows:

Steady green: Normal working mode
Single green blink: Command received
Long single green blink: Mode or color cycle limit reached
Long single yellow blink: Brightness or speed limit reached
Red flash: Overload protection
Yellow flash: Overheat protection
Green flash 3 times: New remote control paired

4. 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 connected securely and insulated before powering on.
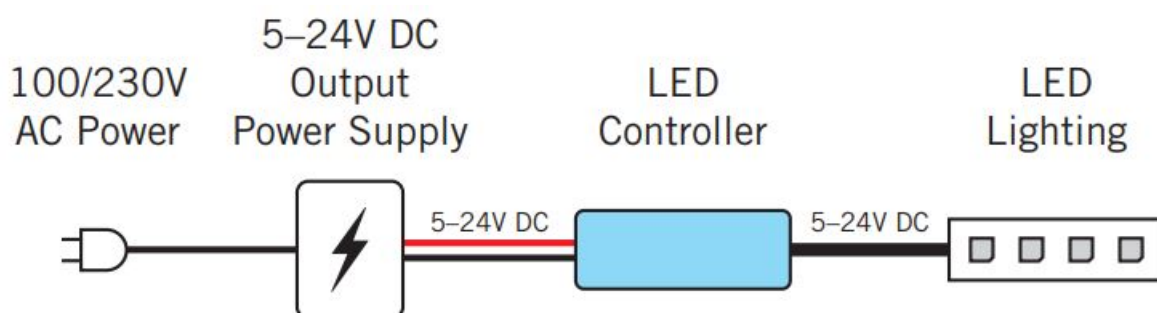
Remote Control
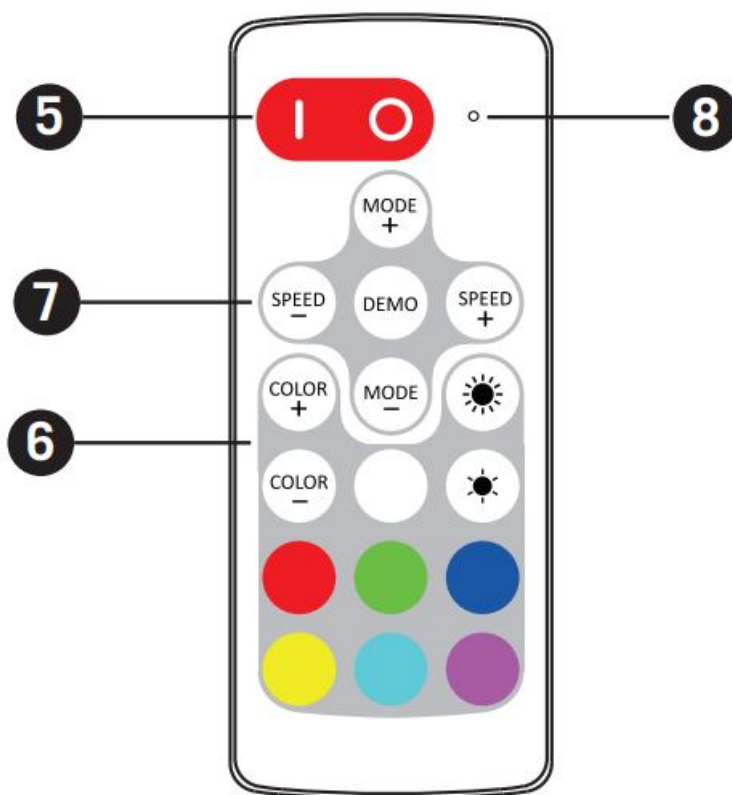
5. On / Off

Press the "|" key to turn on controller or the "0" key to turn off. The controller will remember the controller state when powered off, and will return to that state when powered back on.

6. 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.

7. 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.

8. 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

9. 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.

10. 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

11. 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.

Safety Protection

The controller has a function to prevent it from being damaged by mis-wiring, output short circuit, overloading, or overheating. It will automatically shut down under these extreme conditions until safe operating conditions are restored. To avoid shutdowns, make sure the installed LED lighting is compatible with constant voltage driving, is in the rated range of the controller, and the cables are well connected and insulated. Also, install the controller with proper ventilation and heat dissipation in mind.

Specifications

Output mode	PWM constant voltage
Working voltage	5–24V DC
Rated output current	3x4A (12A max)
Brightness levels	5
Static colors	30
Dynamic effects	34
Dynamic speed levels	10
Color preset keys	7
PWM physical grade	4000 steps
Overload protection	Yes
Overheat protection	Yes
Remote frequency	433.92MHz
Remote control range	>49 ft./15m in open areas
Controller dimensions	3.43 X 0.95 X 0.59 in./ 87 X 24 X 15mm
Remote dimensions	3.41 X 1.42 X 0.329 in./ 86.5 X 36 X 7.5mm

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.

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Documents / Resources

Armacost 713420 Proline RGB Color LED Controller With RF Remote Control [pdf] User Guide

713420, Proline RGB Color LED Controller With RF Remote Control, RF Remote Control, Proline RGB Color LED Controller, RGB Color LED Controller

References

- ⚠ **LED Lighting Products & Solutions from Armacost Lighting**

Manuals+,