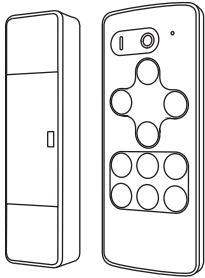# Armacost ⚠ LIGHTING ®

ProLine CCT Tunable White LED Controller

With RF Remote Control

Model # 513020

🛡
Built-in Safety Protection

⚡
High Power
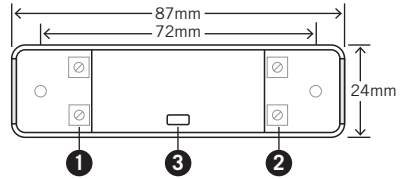
▥
Compact Size

📶
Wireless Remote

⏚
Wide Voltage Range

Introduction

This LED controller is designed to drive constant voltage CCT Tunable White 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 adjust LED brightness and select color temperature.

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 + and – to –).

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.
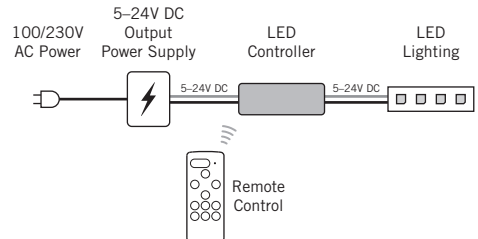
3. Status indicator

This light shows the working status of the controller. It shows different events as following:
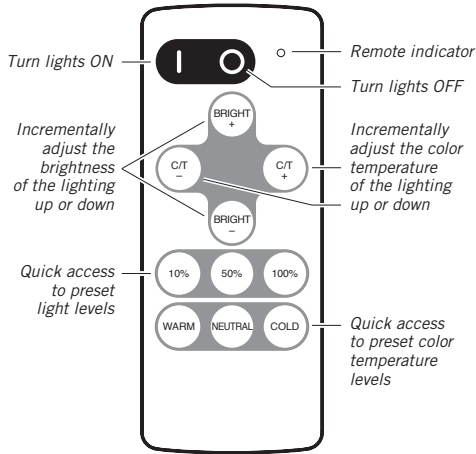
Steady green: Normal operation

Single green blink: Command received

Long single green blink: Mode or color cycle edge

Long single yellow blink: Reach brightness limit

Red flash: Overload protection

Yellow flash: Overheat protection

Green flash 3 times: New remote controller paired

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

Turn lights ON
Remote indicator
Turn lights OFF
Incrementally adjust the brightness of the lighting up or down
Incrementally adjust the color temperature of the lighting up or down
Quick access to preset light levels
Quick access to preset color temperature levels

BRIGHT +
C/T −
C/T +
BRIGHT −
10% 50% 100%
WARM NEUTRAL COLD

On/Off
The controller will remember the controller state when powered off, and will return to that state when powered back on.

Brightness adjustment
Press the "+" and "−" keys to adjust brightness or press the 10%, 50%, and 100% keys to jump to the specific brightness level.

Safety protection
The controller has built-in protection for incorrect wiring, output short circuiting, overloading and overheating. If the any of these conditions occurs, the receiver will automatically shut down until the issue is corrected. If this occurs, check to make sure the connected LED lighting is rated for constant voltage current and is in the controller's voltage output range. Also, make sure all cables are securely connected and insulated, and that the receiver is well ventilated.

Specifications

Output mode..........................PWM constant voltage
Working voltage ....5–24V DC
Brightness grade....................................... 11 levels
PWM frequency 1KHz
PWM physical grade.................................256 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

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

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

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.
3. Within ten seconds, press the "C/T –" and "C/T +" keys simultaneously for about three seconds until the remote indicator flashes quickly.

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.

Customer support

Email: support@armacostlighting.com

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

Three-year limited 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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