

## Armacost Lighting 523420N

# Armacost Lighting Slimline White or Single Color LED Controller 523420N Series 2 User Manual

**Brand:** Armacost Lighting | **Model:** 523420N

## PRODUCT OVERVIEW

The Armacost Lighting Slimline White or Single Color LED Controller is designed for controlling LED lights. This ultra-slim and compact controller functions with Armacost Lighting White or Single Color LED tape light installations. It utilizes Radio Frequency (RF) technology, allowing control through cabinets, doors, and walls up to 50 feet away. The remote control provides 0 to 100% dimming capabilities and is suitable for various LED lighting installations, compatible with both 12-volt and 24-volt LED lighting and power supplies.

## Key Features

- Controls White or Single Color lighting systems from up to 50 feet away.
- Radio Frequency (RF) technology allows control without line of sight.
- A single remote can be paired with multiple installations for multi-zone LED lighting control.
- Ultra-slim and compact receiver for easy concealment during installation.
- Compatible with 12V and 24V LED lighting and power supplies.

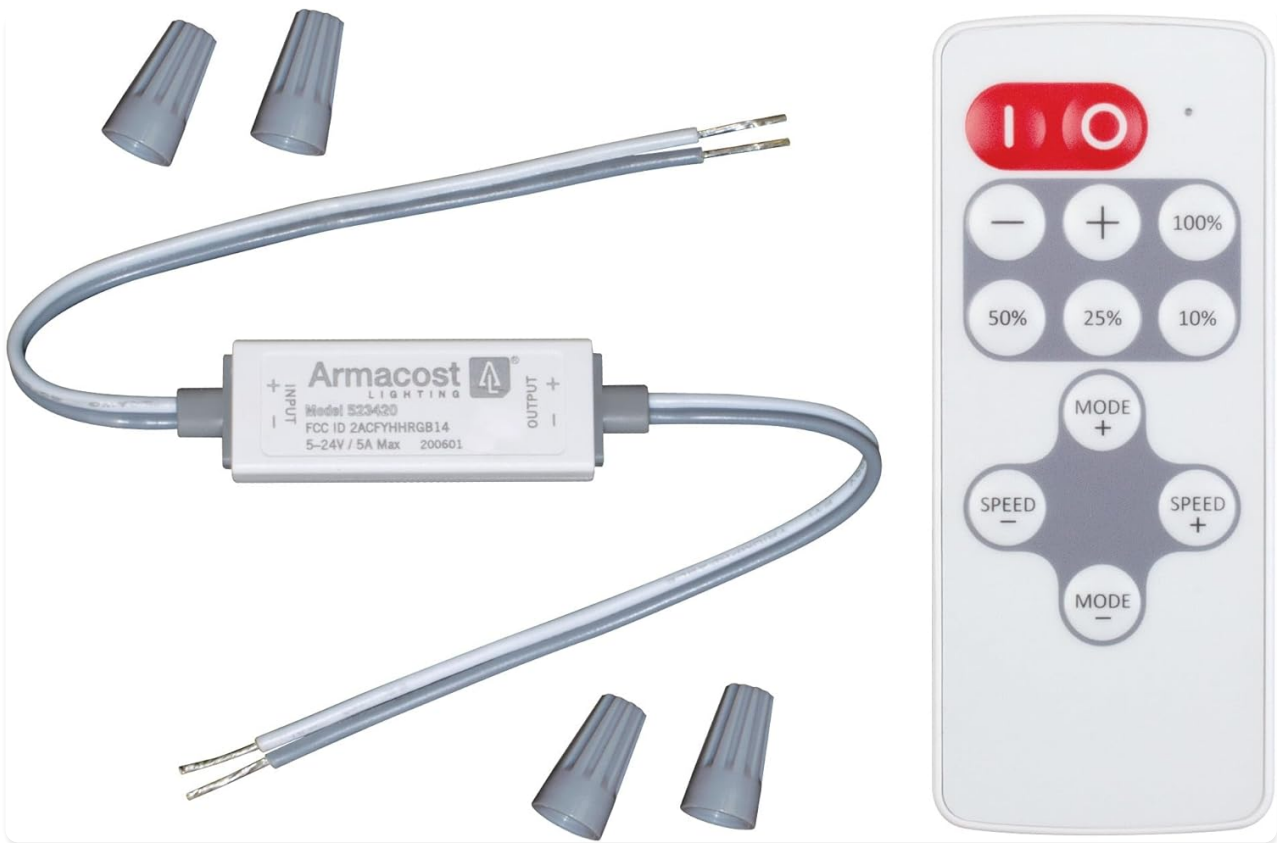


Image: The Armacost Lighting Slimline White or Single Color LED Controller and its accompanying remote control.

## PACKAGE CONTENTS

Verify that all components are present in the package:

- Slimline LED Controller (Receiver)
- Wireless Remote Control
- CR2025 Battery (pre-installed in remote or included separately)
- Twist-on Wire Connectors (typically 4)

## SAFETY INFORMATION

Please read and understand all instructions before installation and use. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Disconnect Power:** Always disconnect power at the circuit breaker before installing or servicing the controller.
- **Qualified Electrician:** If you are unsure about wiring or installation, consult a qualified electrician.
- **Voltage Compatibility:** Ensure the LED lighting and power supply voltage (12V or 24V) matches the controller's specifications.
- **Indoor Use:** This controller is designed for indoor use unless otherwise specified for specific components.

- **Avoid Overloading:** Do not exceed the maximum wattage rating of the controller.
- **Proper Wiring:** Ensure all wire connections are secure and insulated to prevent short circuits.

## SETUP AND INSTALLATION

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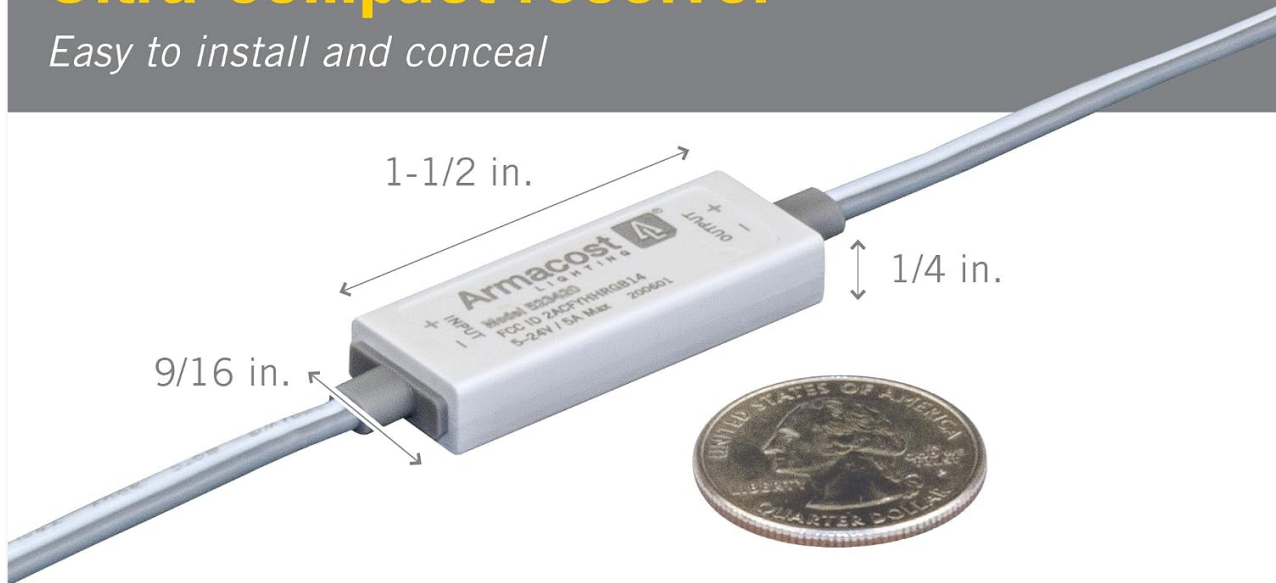
The Slimline LED controller is designed for easy installation and concealment.

### Wiring the Controller

1. **Prepare Wires:** Ensure power is disconnected. Strip the ends of the 2-conductor DC wires from your power supply and LED lighting.
2. **Connect Input:** Connect the positive (+) and negative (-) wires from your 12V or 24V DC power supply to the corresponding input wires on the controller (marked 'INPUT'). Use the provided twist-on wire connectors for secure connections.
3. **Connect Output:** Connect the positive (+) and negative (-) wires from your White or Single Color LED strip light to the corresponding output wires on the controller (marked 'OUTPUT'). Ensure polarity is correct.
4. **Secure Connections:** Double-check all connections for tightness and proper insulation.
5. **Conceal Receiver:** Due to its compact size, the receiver can be easily concealed behind cabinets, within junction boxes, or other discreet locations.

# Ultra-compact receiver

*Easy to install and conceal*



For single-color,  
2-conductor DC  
wire connections



4

twist-on wire  
connectors included



Image: The ultra-compact receiver of the Armcast Lighting Slimline LED Controller, showing its dimensions and the included twist-on wire connectors for single-color, 2-conductor DC wire connections.

## Pairing the Remote Control

The remote control is typically pre-paired with the receiver. If the remote does not respond, follow these steps to re-pair it:

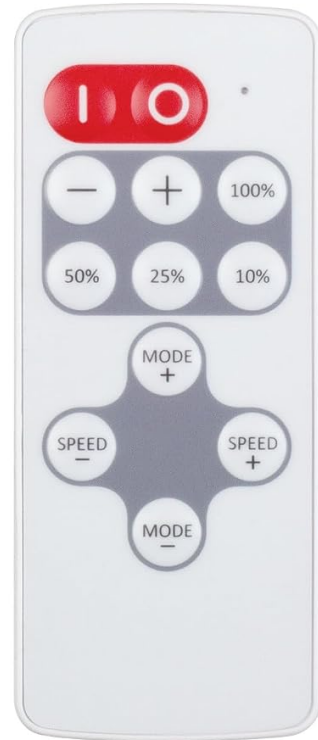
1. **Disconnect Power:** Disconnect the power supply to the LED controller (receiver) and wait for at least five seconds.
2. **Reconnect Power:** Reconnect the power supply to the receiver.
3. **Initiate Pairing:** Within ten seconds of reconnecting power, simultaneously press and hold the '50%' and '10%' keys on the remote control for approximately three seconds. The remote indicator light should flash quickly to confirm successful re-pairing.

## OPERATING INSTRUCTIONS

The wireless remote control allows for easy adjustment of your LED lighting.

## RF remote control included

*Works through walls and doors*



Adjust brightness,  
select dynamic effects

Image: The RF remote control for the Armacost Lighting Slimline LED Controller, showing buttons for power, dimming, and dynamic effects.

### Remote Control Functions

- **On/Off Button (Red):** Press to turn the LED lights on or off. The controller remembers the last dimming setting when turned off and on.
- **Brightness Adjustment (+/-):** Use the '+' button to increase brightness and the '-' button to decrease brightness.
- **Preset Brightness (10%, 25%, 50%, 100%):** Directly set the brightness to these predefined levels.
- **MODE +/-:** Cycles through various dynamic lighting effects (e.g., fade, strobe, flash).
- **SPEED +/-:** Adjusts the speed of the selected dynamic lighting effect.

## MAINTENANCE

### Remote Control Battery Replacement

The remote control uses a CR2025 coin cell battery. If the remote's indicator light does not illuminate or the remote becomes unresponsive, the battery may need replacement.

1. Locate the battery compartment on the back or side of the remote control.
2. Open the compartment using a small screwdriver or by sliding the cover.
3. Remove the old CR2025 battery.
4. Insert a new CR2025 battery with the positive (+) side facing up.
5. Close the battery compartment securely.

## TROUBLESHOOTING

### Remote Control Not Responding

- **Check Battery:** Ensure the remote control battery (CR2025) is not depleted. Replace if necessary.
- **Re-pair Remote:** If the battery is good, the remote may have lost its pairing with the receiver. Follow the "Pairing the Remote Control" steps in the Setup section to re-establish the connection.
- **Power Cycle:** Disconnect power to the LED controller for 10 seconds, then reconnect. Test the remote again.
- **Obstructions:** While RF technology works through walls, extreme metal obstructions or very long distances may reduce signal strength. Ensure the receiver is not completely encased in metal.

## SPECIFICATIONS

Feature	Specification
Model Number	523420N
Control Type	Radio Frequency (RF)
Control Range	Up to 50 ft (15 meters)
Compatibility	12V and 24V White or Single Color LED Lighting
Dimming Range	0% to 100%
Included Components	Controller, Wireless Remote, CR2025 Battery, Twist-on Wire Connectors
Item Weight	1.28 ounces

## PRODUCT VIDEO OVERVIEW

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Watch this video for a general overview of Armacost Lighting products, including LED lighting, power supplies, and controls.

Your browser does not support the video tag.

Video: An overview of Armacost Lighting's range of products, including under cabinet LED lighting, power supplies, and various control options. This video provides context for the Slimline LED Controller's place within the product ecosystem.

## WARRANTY AND SUPPORT

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For warranty information, technical support, or further assistance, please refer to the official Armacost Lighting website or contact their customer service directly. Keep your purchase receipt for warranty claims.