



# Armacost LIGHTING 714421 ProLine WiFi RGB plus with Color LED Controller User Guide

[Home](#) » [Armacost LIGHTING](#) » Armacost LIGHTING 714421 ProLine WiFi RGB plus with Color LED Controller User Guide

## Contents [ [hide](#) ]

- [1 Armacost LIGHTING 714421 ProLine WiFi RGB plus with Color LED Controller](#)
- [2 ProLine Wi-Fi RGB+W Color LED Controller](#)
- [3 Introduction](#)
- [4 Receiver & wiring](#)
- [5 Wiring diagram](#)
- [6 Remote Control](#)
- [7 Safety Protection](#)
- [8 Specifications](#)
- [9 Customer support](#)
- [10 Warranty](#)
- [11 Documents / Resources](#)
  - [11.1 References](#)
- [12 Related Posts](#)

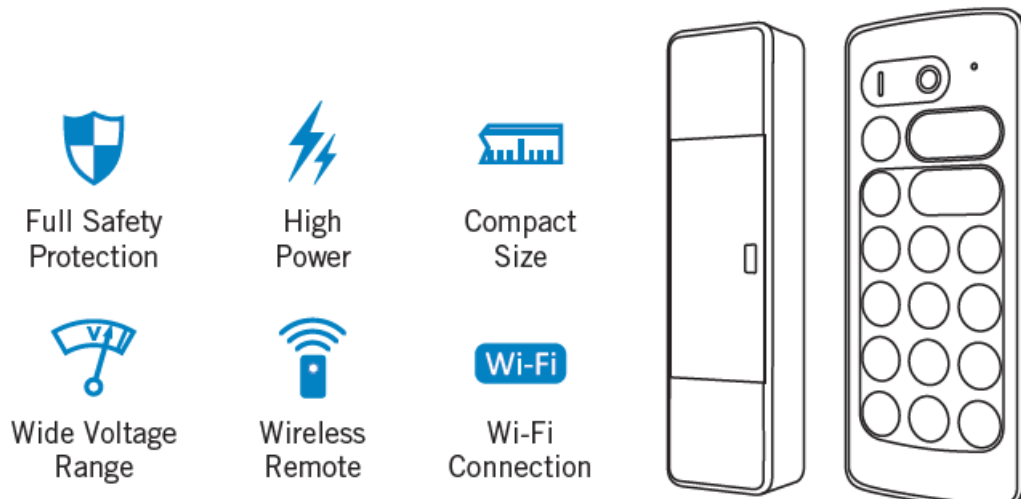


**Armacost LIGHTING 714421 ProLine WiFi RGB plus with Color LED Controller**



## ProLine Wi-Fi RGB+W Color LED Controller

**Model # 714421**

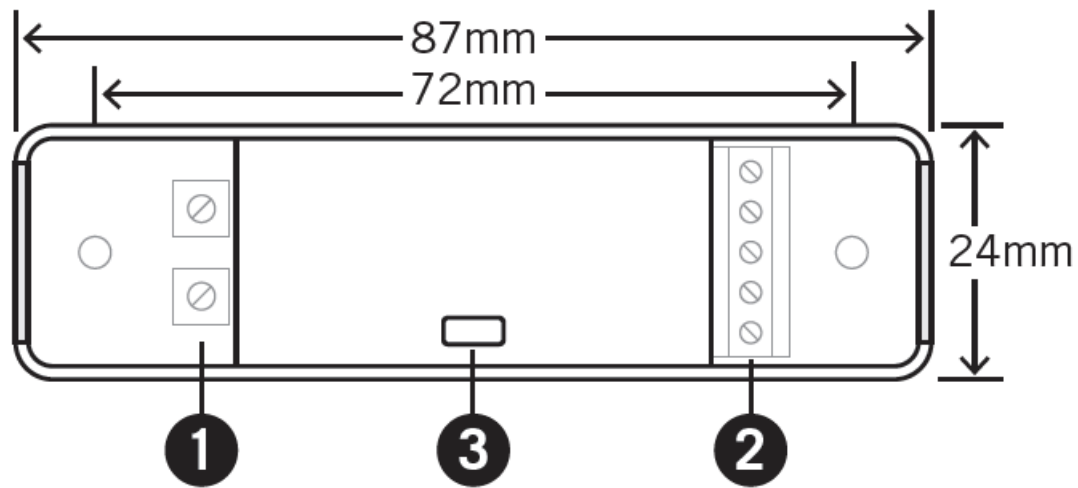


Works with the Tuya Smart App, available at the iOS and Google Play stores

### Introduction

This LED controller is designed to drive constant voltage RGB+White LED products such as LED tape light or LED fixtures in a voltage range of 6–24 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



### Input – from power supply

The controller input and output voltage range is 6–24 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 –).

### Output – to LED lighting

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

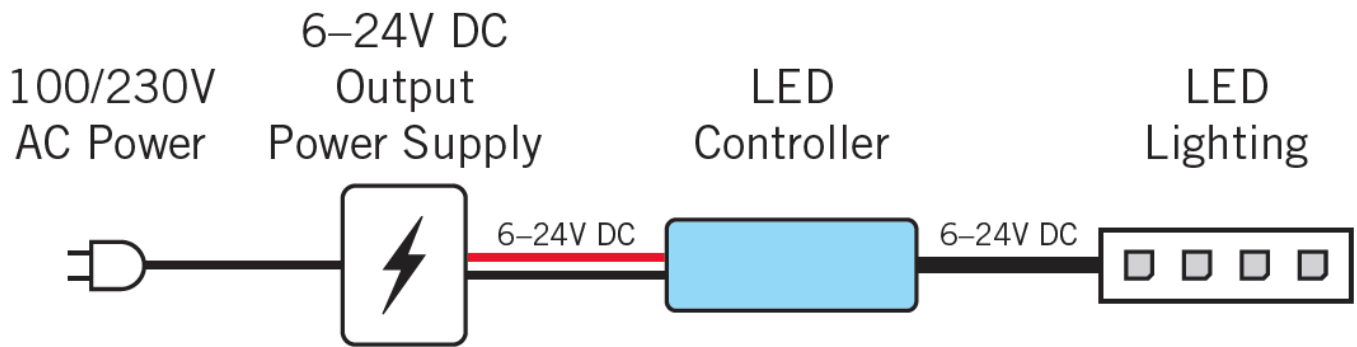
### Controller status indicator

This light shows the controller status as follows:

- **Steady yellow:** Remote only mode, Wi-Fi disconnected
- **Steady green:** Remote and Wi-Fi mode
- **Single green blink:** Command received
- **Long single yellow blink:** Brightness or speed limit reached
- **Red flash:** Overload protection
- **Yellow flash:** Overheat protection
- **Green flash 3 times:** Setup command received

### Wiring diagram

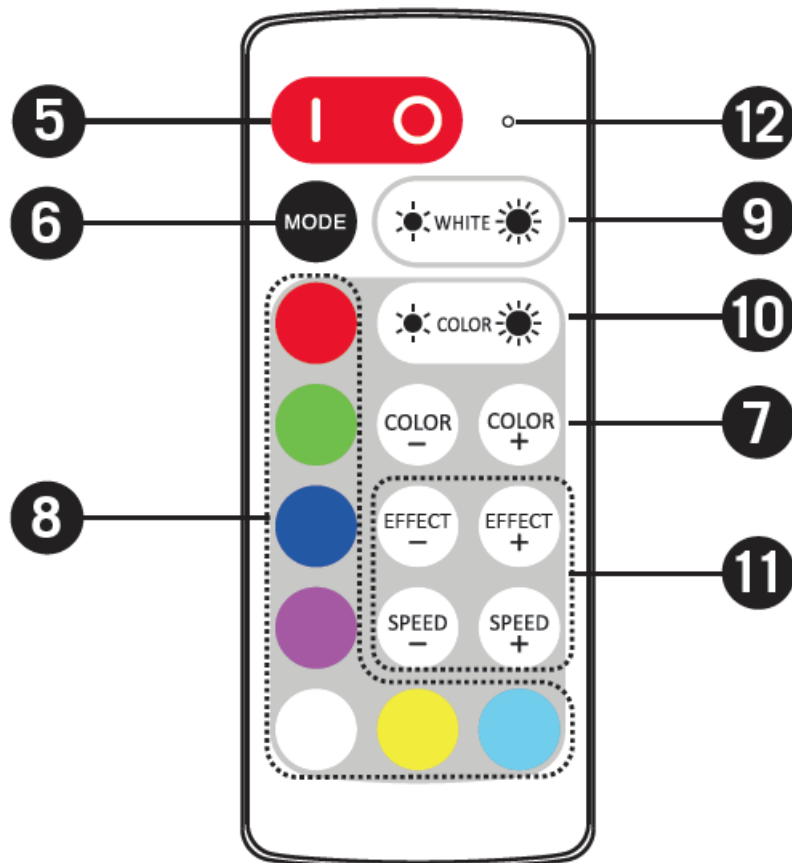
Connect the power supply to the controller input and the controller output to the LED lighting. The output voltage of the power supply must be the same as the voltage of the LED lighting. Make sure all power cables are connected securely and insulated before powering on.



## Remote Control

### On / Off

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



**Mode selection** Press this key to switch between RGB, white, and RGB+white mode. If the RGB mode is selected, the white channel will be disabled, and if the white mode is selected, RGB channel will be disabled. In RGB+White mode all channels are enabled.



### Select static RGB color

Press the “COLOR+” and “COLOR–” keys to scroll through the preset library of colors.



### Shortcut color keys

Press to select preset colors.

## White brightness control

Press  to increase white LED brightness and press  to decrease it.

## RGB brightness control

Press  to increase RGB LED brightness and press  to decrease it.

## Dynamic effect

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

## 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.

## Setting up a Wi-Fi connection



Install the Tuya app to set up a Wi-Fi connection. Before setup, make sure the controller is in factory default mode and not connected to other wireless routers. The controller indicator should glow yellow before it has been connected to Wi-Fi. Remote control operation

## 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.

## Pairing with a new remote control

The remote control and receiver are already paired, but up to five 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  and  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.

## Reset to factory default

To reset the Wi-Fi setting and remote control pairing:

1. Unplug the receiver. Plug in after five seconds.
2. Press the  and  keys simultaneously for about three seconds, within ten seconds of the receiver being powered on.

The indicator will flash yellow three times to confirm.

## 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** 6–24V DC
- **Rated output current** 4x3A (12A max)
- **Static colors** 30 (remote) / 16 million (app)
- **Brightness levels** 10 (remote) /100 (app)
- **Dynamic effect modes** 34 (remote only)
- **Dynamic speed levels** 10 (remote only)
- **Color preset keys (remote)** 7
- **Scene / Timing function** User defined (app only)
- **Music sensing color** Yes (app only)
- **PWM physical grade** 4000 steps
- **Overload/heat protection** Yes
- **Remote frequency** 433.92MHz
- **Remote control range** >49 ft./15m in open areas
- **Wi-Fi standard** IEEE 802.11a/b/g
- **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 X7.5mm

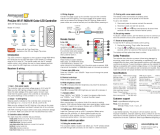
## Customer support

- **Email:** [support@armacostlighting.com](mailto:support@armacostlighting.com)
- **Phone:** 410-354-6000 Monday–Friday, 9 a.m.–5 p.m., ET

## Warranty

1-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](mailto:support@armacostlighting.com). [armacostlighting.com](http://armacostlighting.com) © 2020 Armacost Lighting. All rights reserved

## Documents / Resources

	<p><a href="#">Armacost LIGHTING 714421 ProLine WiFi RGB plus with Color LED Controller</a> [pdf] User Guide</p> <p>714421 ProLine WiFi RGB plus with Color LED Controller, 714421, ProLine WiFi RGB plus with Color LED Controller, ProLine, ProLine Color LED Controller, WiFi RGB plus with Color LED Controller, Color LED Controller, RGB LED Controller, LED Controller, Controller</p>
---	---

## References

-  [LED Lighting Products & Solutions from Armacost Lighting](#)

[Manuals+](#), [home](#) [privacy](#)