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## Sogledwow LT-GL-C-301W

# GLEDOPTO WiFi+Bluetooth 5 Modes in 1 Mini LED Strip Controller User Manual

Model: LT-GL-C-301W

## INTRODUCTION

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This user manual provides comprehensive instructions for the GLEDOPTO WiFi+Bluetooth 5 Modes in 1 Mini LED Strip Controller (Model: LT-GL-C-301W). This versatile controller is designed to manage various types of LED strips, offering multiple control options including WiFi via Tuya Smart Life App, Bluetooth, 2.4G RF remote, and a push switch. Its ultra-mini design ensures easy integration into diverse lighting setups.

## SAFETY INFORMATION

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- Ensure the input voltage (DC 12-24V) matches the requirements of your LED strip and power supply. Incorrect voltage can damage the device.
- Do not exceed the maximum output current of 6A per channel or total output current of 10A.
- Install the controller in a dry environment. This device has an IP20 rating, meaning it is not waterproof.
- Disconnect power before making any wiring connections to prevent electrical shock.
- Keep out of reach of children.
- If the device malfunctions, do not attempt to repair it yourself. Contact qualified personnel for assistance.

## PACKAGE CONTENTS

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Verify that all items are present in the package:

- 1x Ultra Mini WiFi 5 in 1 LED Controller (Model: LT-GL-C-301W)
- 1x User Manual

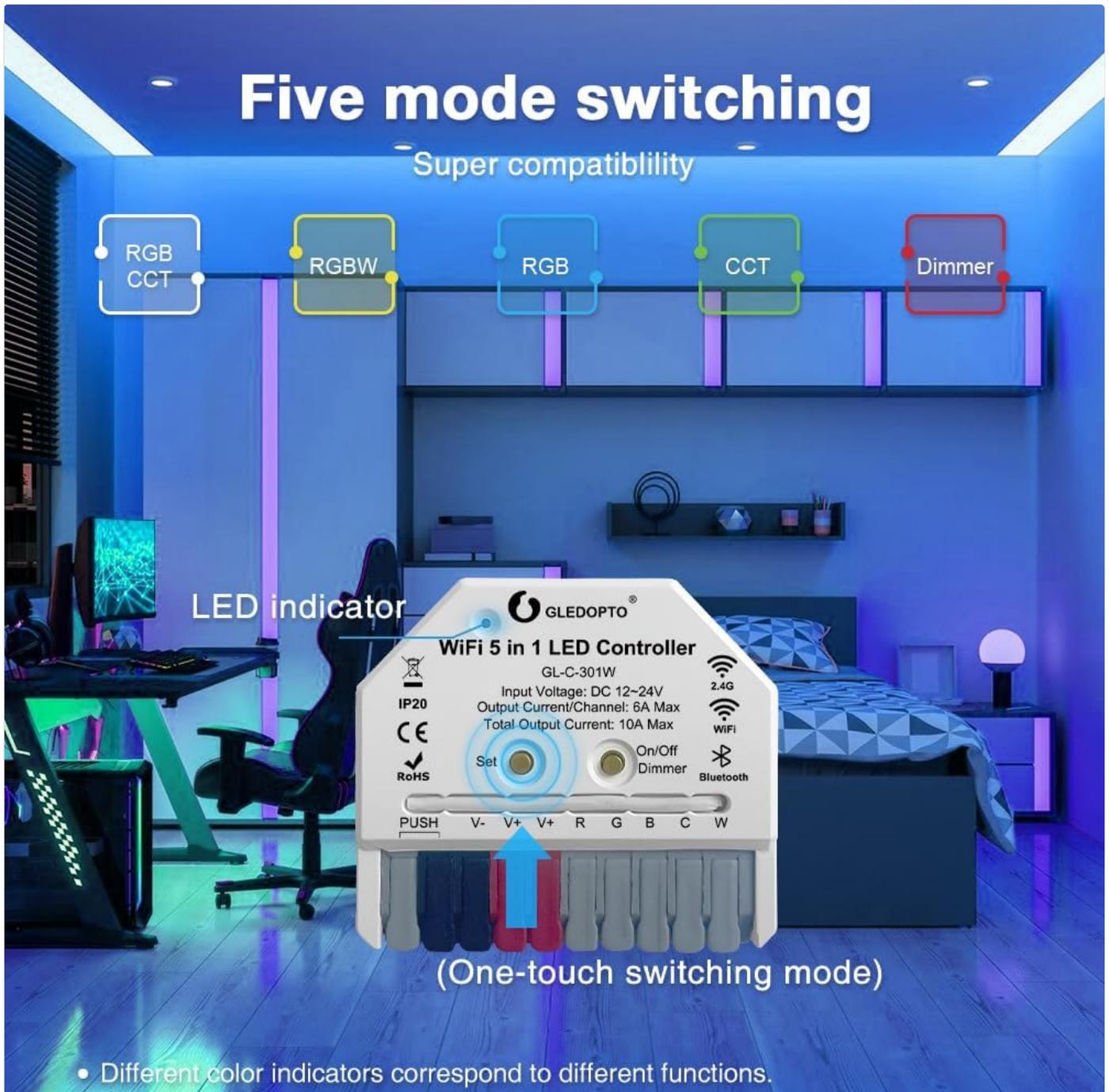


Image: The GLEDOPTO WiFi 5 in 1 LED Controller shown next to its product packaging box.

## PRODUCT OVERVIEW

The GLEDOPTO Mini LED Strip Controller is a compact and powerful device designed for intelligent lighting control. It supports five different LED strip modes and offers multiple control methods for maximum flexibility.

### Key Features:

- **WiFi Wireless App Control:** Control via Tuya Smart Life APP without an additional gateway.
- **Ultra-mini Design:** Compact size (42x38x17mm) for easy installation.
- **Five Modes and Compatibility:** Supports RGB CCT, RGBW, RGB, CCT, and Dimmer LED strips.
- **Power On Behavior Setting:** Customize the light state upon power restoration.
- **Simplified Wiring:** Upgraded wiring port design for easier installation.
- **2.4G RF Remote Control:** Compatible with 2.4G RF remotes for direct control.

# Quick connect port design

More convenient wiring

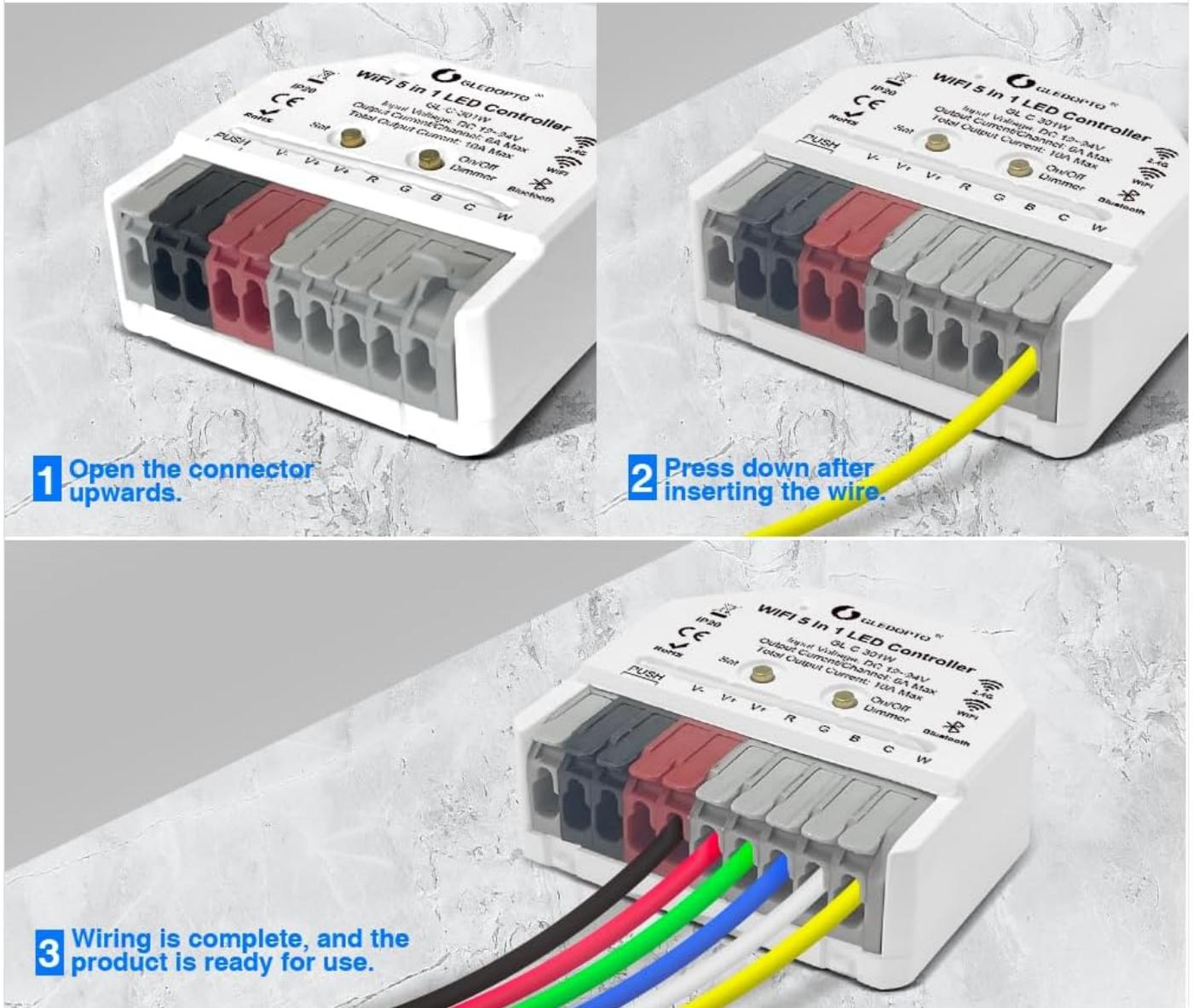


Image: The GLEDOPTO LED Controller is shown held in a hand, highlighting its ultra-miniature size and dimensions (38mm x 42mm x 17mm).

## SETUP

### 1. Wiring the Controller:

The controller features a quick connect port design for simplified wiring. Ensure power is disconnected before proceeding.

1. Open the connector upwards by pressing the 'PUSH' button.
2. Insert the stripped wire (suggested type: 0.5-1.5mm<sup>2</sup> / 24-16AWG, stripping length: 8-9mm) into the corresponding terminal.
3. Release the 'PUSH' button to secure the wire. Repeat for all necessary connections (V+, V-, R, G, B, C, W).
4. Connect the power supply (DC 12-24V) to the input terminals.
5. Connect your LED strip to the output terminals according to its type (RGCCT, RGBW, RGB, CCT, or Dimmer).

# Push switch

installation and connection

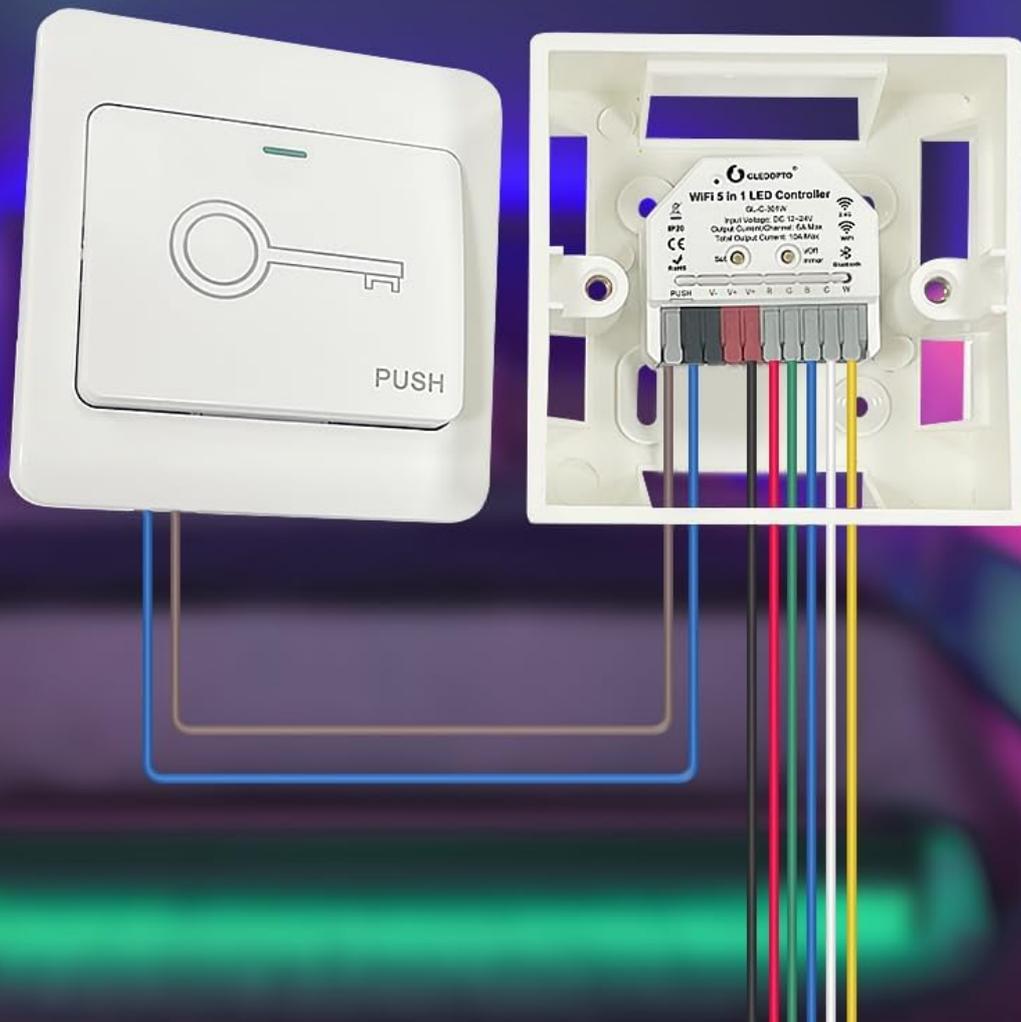


Image: A visual guide demonstrating the quick connect port design, showing how to open the connector, insert wires, and complete the wiring for the LED controller.

## 2. App Installation and Pairing (Tuya Smart Life App):

The controller works directly with the Tuya Smart Life App, eliminating the need for a separate gateway.

1. Download the "Tuya Smart" or "Smart Life" app from your mobile device's app store (iOS or Android).
2. Register or log in to your account.
3. Ensure your mobile device is connected to a 2.4GHz WiFi network.
4. Power on the LED controller. The LED indicator on the controller should blink, indicating it's in pairing mode. If not, short press the "Set" button 3 times rapidly to reset it to pairing mode.
5. Open the app, tap "+" to add a device, and select "Lighting" > "Light Source (Wi-Fi)".
6. Follow the on-screen instructions to connect the controller to your WiFi network.

# Power-on State Setting

Two modes optional

Remember the state of the on/off before power failure

Lights up by default when powered on

The indicator light flashes blue 3 times



Short press 3 times

Image: Screenshots illustrating the Tuya Smart Life app interface, showing device discovery and color/brightness control options for the LED light.

## OPERATING INSTRUCTIONS

### 1. App Control:

Once paired, you can control your LED strip using the Tuya Smart Life App:

- **Color Changing:** Select from 16 million colors.
- **Brightness Adjustment:** Dim or brighten the lights.
- **Color Temperature Adjustment:** Adjust white light from 2200K (warm white) to 6500K (cool white).
- **Scene Modes:** Choose from pre-set scenes or create custom ones.
- **Timer/Schedule:** Set schedules for lights to turn on/off or change modes.

# Tuya smart APP

Download the Tuya / Smart life APP to control the lights without gateway, convenient and enjoy smart life

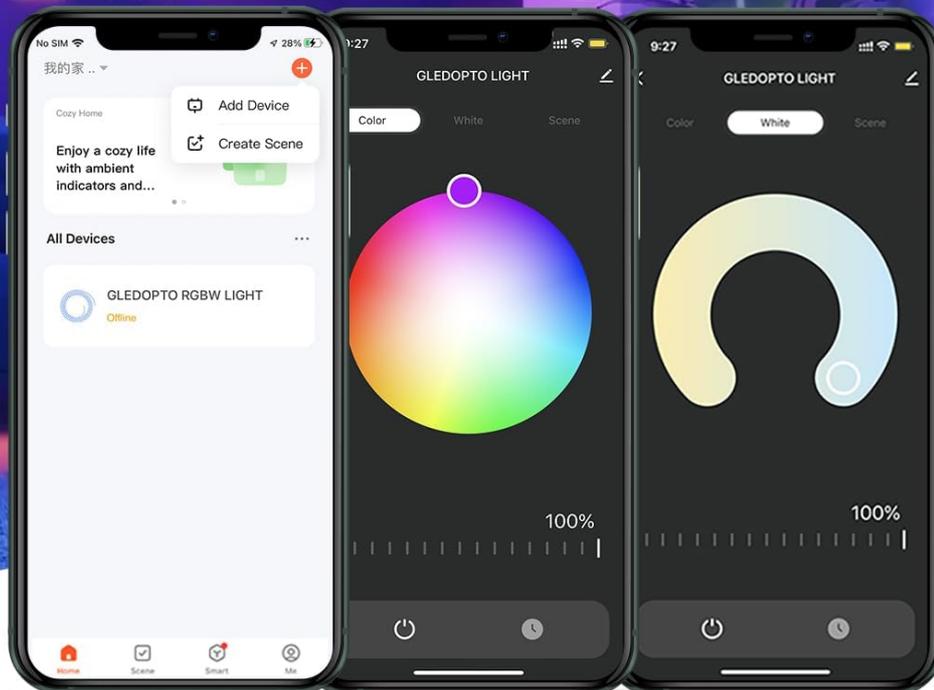


Image: A mobile app interface displaying controls for adjusting color, brightness, and color temperature of LED lights, with examples of different lighting ambiances.

## 2. Push Switch Control:

The controller supports connection to an external push switch for basic control:

- **Short Press:** Toggles On/Off.
- **Long Press:** Continuously decreases brightness. Release and long press again to increase brightness.

# Product parameters

Craftsman spirit, quality is guaranteed



**Model NO.:**  
GL-C-301W

**Output Current/Channel:**  
6A Max

**Communication Protocol:**  
WiFi + Bluetooth + 2.4G RF

**Suggested Wire Type:**  
0.5-1.5mm<sup>2</sup>(24-16AWG)

**N.W.:**  
20.3g

**Operating Temperature:**  
-20~45°C

**Input voltage:**  
DC 12-24V

**Total Output Current:**  
10A Max

**Material:**  
Fireproof PC

**Stripping Length:**  
8-9mm

**G.W.:**  
24.4g

**Size:**  
42x38x17mm

Image: A diagram illustrating the wiring and connection of the GLEDOPTO LED controller to a standard push switch for manual control.

## 3. 2.4G RF Remote Control:

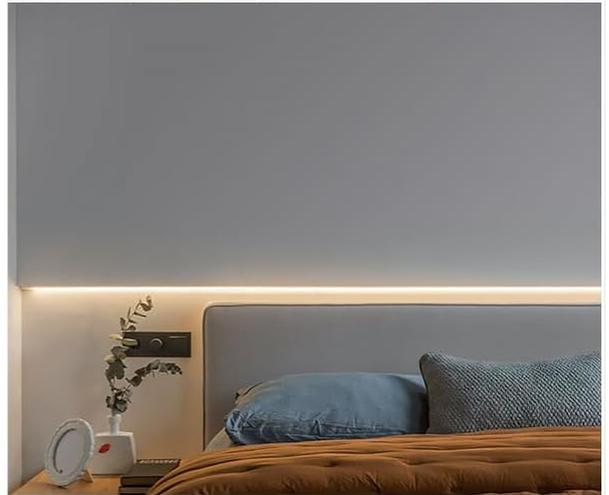
The controller is compatible with GLEDOPTO 2.4G RF remotes (sold separately) for additional control options.

- **Color Wheel:** Select from 16 million colors.
- **Brightness/Color Temperature:** Dedicated buttons for adjustment.
- **Dynamic Modes:** Access 9 dynamic changing modes.
- **Speed Adjustment:** Increase or decrease the speed of dynamic modes.

## 4. Mode Switching:

The controller supports five different LED strip modes (RGBCCT, RGBW, RGB, CCT, Dimmer). You can switch between these modes using the "Set" button on the controller.

- **Short Press "Set" Button:** Cycles through the five modes. The LED indicator will change color to reflect the current mode.



## Set the Right Ambiance

- 16 Million Colors Adjustable
- Brightness Adjustable
- 2200~6500K Color Temperature Adjustable

Image: A diagram illustrating the five different LED strip modes (RGB CCT, RGBW, RGB, CCT, Dimmer) supported by the controller, with the "Set" button highlighted for mode switching.

### 5. Power On Behavior Setting:

You can customize how the lights behave when power is restored after an outage:

- **To remember the last state:** Short press the "Set" button 3 times rapidly. The indicator light will flash blue 3 times.
- **To light up by default (full brightness, warm white):** Short press the "Set" button 3 times rapidly again. The indicator light will flash blue 3 times. This toggles the setting.

# Lightweight

Small in volume, weight:20.3g



Image: A visual explanation of the power-on state setting, showing options to remember the last state or light up by default, activated by short pressing the "Set" button 3 times.

## 6. Voice Control (Amazon Alexa, Google Assistant):

The controller can be integrated with voice assistants for hands-free control. Ensure your Tuya Smart Life account is linked to your voice assistant app.

### • Example Commands:

- "Alexa, turn on the Living Room light."
- "Alexa, set to warm white."
- "Alexa, increase to 70%."



Image: An illustration depicting the GLEDOPTO LED controller's compatibility with Amazon Echo Plus, demonstrating voice commands for light control.

## MAINTENANCE

- Keep the controller clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to moisture, extreme temperatures, or direct sunlight.
- Regularly check wiring connections to ensure they are secure.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
LED strip not lighting up.	No power, incorrect wiring, faulty LED strip.	Check power supply connection. Verify all wires are correctly connected to the controller and LED strip. Test LED strip with another power source if possible.
Cannot connect to Tuya Smart Life App.	Incorrect WiFi network (not 2.4GHz), controller not in pairing mode, incorrect password.	Ensure your phone is on a 2.4GHz WiFi network. Short press the "Set" button 3 times to put the controller into pairing mode. Double-check WiFi password.
Lights flicker or behave erratically.	Insufficient power supply, loose connections, incompatible LED strip.	Ensure power supply wattage is sufficient for your LED strip. Check all wiring connections for tightness. Verify LED strip type matches controller mode.
Remote control not working.	Remote not paired, battery low.	Refer to your remote control's manual for pairing instructions. Replace remote battery.

## SPECIFICATIONS

Parameter	Value
Model No.	LT-GL-C-301W

Parameter	Value
Input Voltage	DC 12-24V
Output Current/Channel	6A Max
Total Output Current	10A Max
Communication Protocol	WiFi + Bluetooth + 2.4G RF
Suggested Wire Type	0.5-1.5mm <sup>2</sup> (24-16AWG)
Stripping Length	8-9mm
Material	Fireproof PC
Net Weight (N.W.)	20.3g
Gross Weight (G.W.)	24.4g
Operating Temperature	-20~45°C
Size	42x38x17mm



## Product parameters

<b>Model NO.:</b> GL-C-301W	<b>Input voltage:</b> DC 12-24V
<b>Output Current/Channel:</b> 6A Max	<b>Total Output Current:</b> 10A Max
<b>Communication Protocol:</b> WiFi + Bluetooth + 2.4G RF	<b>Material:</b> Fireproof PC
<b>Suggested Wire Type:</b> 0.5-1.5mm <sup>2</sup> (24-16AWG)	<b>Stripping Length:</b> 8-9mm
<b>N.W.:</b> 20.3g	<b>G.W.:</b> 24.4g
<b>Operating Temperature:</b> -20~45°C	<b>Size:</b> 42x38x17mm

Image: A detailed graphic presenting the technical specifications and parameters of the GLEDOPTO WiFi 5 in 1 LED Controller.

## OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video: This video demonstrates the unboxing, APP control, push switch control, and 2.4G RF remote control functionalities of the GLEDOPTO Ultra Mini WiFi 5 in 1 LED Strip Controller.

## WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided on the product packaging or visit the official Sogledwov website. Keep your purchase receipt for warranty claims.

For further assistance, you may also contact the seller directly through the platform where the product was purchased.

