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GLEDOPTO GL-C-008W

GLEDOPTO WiFi RGBCCT LED Strip Controller (Model GL-C-008W) User Manual

Brand: GLEDOPTO | Model: GL-C-008W

1. INTRODUCTION

This manual provides comprehensive instructions for the GLEDOPTO WiFi RGBCCT LED Strip Controller, Model GL-C-008W. It covers product features, installation, operation, and technical specifications. Please read this manual carefully before using the device to ensure proper functionality and safety.

2.4GHz WiFi control

No gateway required, easy to connect and use.

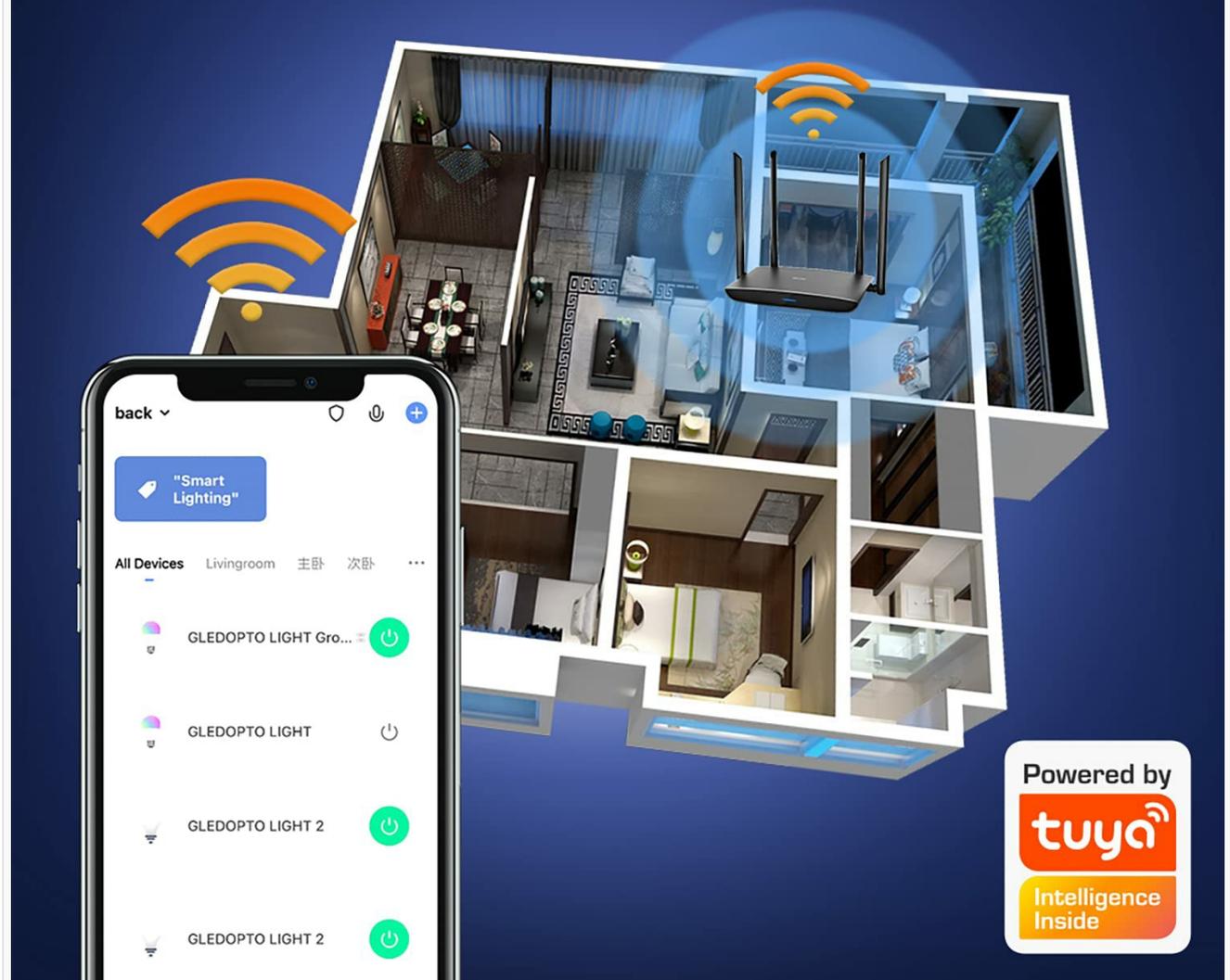
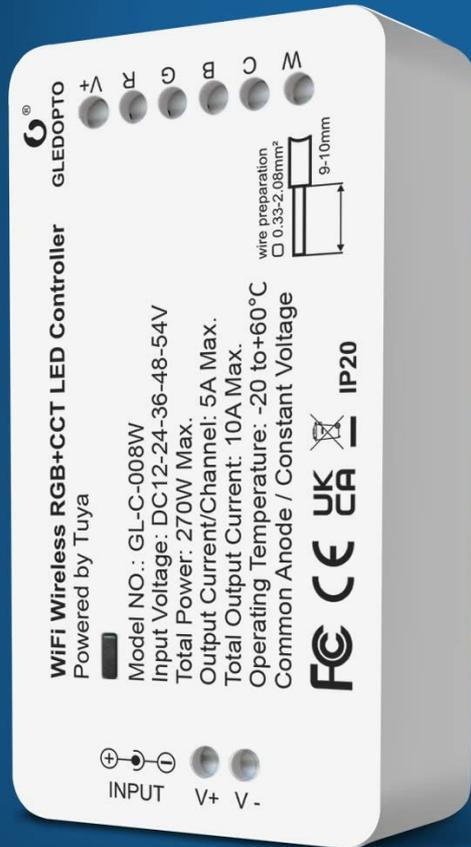


Image 1.1: GLEDOPTO WiFi RGB CCT LED Strip Controller (Model GL-C-008W).

2. PRODUCT FEATURES

- **2.4GHz WiFi Protocol:** Direct control via 2.4GHz WiFi, eliminating the need for a separate Zigbee hub.
- **RGB CCT Compatibility:** Suitable for RGB CCT and RGBWW LED strip lights, allowing adjustment of color, color temperature, and brightness.
- **Tuya Smart Life App Control:** Full control through the Tuya Smart Life application, offering multiple functions.
- **Voice Control:** Compatible with third-party voice assistants such as Amazon Alexa and Google Home.
- **Wide Voltage Range:** Supports DC12-54V, suitable for various light strips and LEDs.

PRODUCT FEATURES



Product Name:

WiFi RGB+CCT LED Controller

Model No.:

GL-C-008W

Input Voltage:

DC 12-24-36-48-54V

Size:

23.5x48x89mm

Protection:

IP20

Operating Temperature:

-20°C~60°C

Output Current/Channel:

5 A max

Total Output Current:

10 A max

Common Anode

Constant Voltage

Image 2.1: Overview of GLEDOPTO WiFi RGB+CCT LED Strip Controller product features and specifications.

3. SETUP AND INSTALLATION

Follow these steps to set up your GLEDOPTO WiFi RGB+CCT LED Strip Controller:

- 1. Power Your Light Sources:** Connect the LED strip light to the controller, and then connect the controller to a suitable power adapter (DC12-54V). Ensure all connections are secure.
- 2. Set Up Your WiFi:** Ensure your 2.4GHz WiFi network is active and accessible.
- 3. Download the Tuya App:** Download and install the "Tuya Smart Life" app from your device's app store. Register or log in to your account.
- 4. Complete Setup and Control:** Open the Tuya Smart Life app and follow the in-app instructions to add your new device. The app will guide you through the pairing process. If the device is not found, try powering the controller off and on, or perform a reset.

STEPS FOR USAGE

Follow these 4 easy steps.

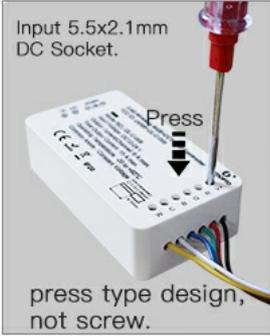
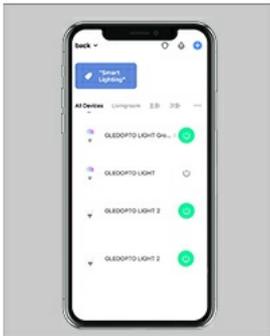
 <p>Input 5.5x2.1mm DC Socket.</p> <p>Press</p> <p>press type design, not screw.</p>	<p>STEP 1</p> <h3>POWER YOUR LIGHT SOURCES</h3> <p>Please connect the light strip, controller, adapter, and plug in the power.</p>		<p>STEP 2</p> <h3>SET UP YOUR WIFI</h3> <p>Connect to wifi.</p>
	<p>STEP 3</p> <h3>DOWNLOAD THE TUYA APP</h3> <p>Start the device searching, it could take some time. if does not find the device, power off/on or make a reset.</p>		<p>STEP 4</p> <h3>COMPLETE THE SETUP AND CONTROL THE LIGHTS.</h3> <p>You can control the light color, color temperature and brightness.</p>

Image 3.1: Visual guide for the four-step setup process, including wiring, WiFi, app download, and control.

3.1. Wiring Connections

The controller supports two main power input methods and various output connections for LED strips.

- **Power Input:**
 - **5.5x2.1mm DC Socket:** For standard DC power adapters.
 - **V+, V- Power Interface:** For direct wire connections from a power supply.
- **LED Strip Output:** Connections for R (Red), G (Green), B (Blue), C (Cool White), W (Warm White), and V+ (Common Anode).

Power connector

Choose one suitable connection.



①	② ③
5.5x2.1mm DC Socket	V+,V- power interface

Image 3.2: Detailed view of the power input options on the GLEDOPTO controller.

Press type design

More convenient to use.



Image 3.3: The GLEDOPTO controller showing wire preparation and connection terminals.

3.2. Connection Types

The controller supports various connection configurations. It is recommended that a single controller connects to a light strip no more than 10 meters in length for optimal performance.

3 types of connection:

-  LED light
-  Wire

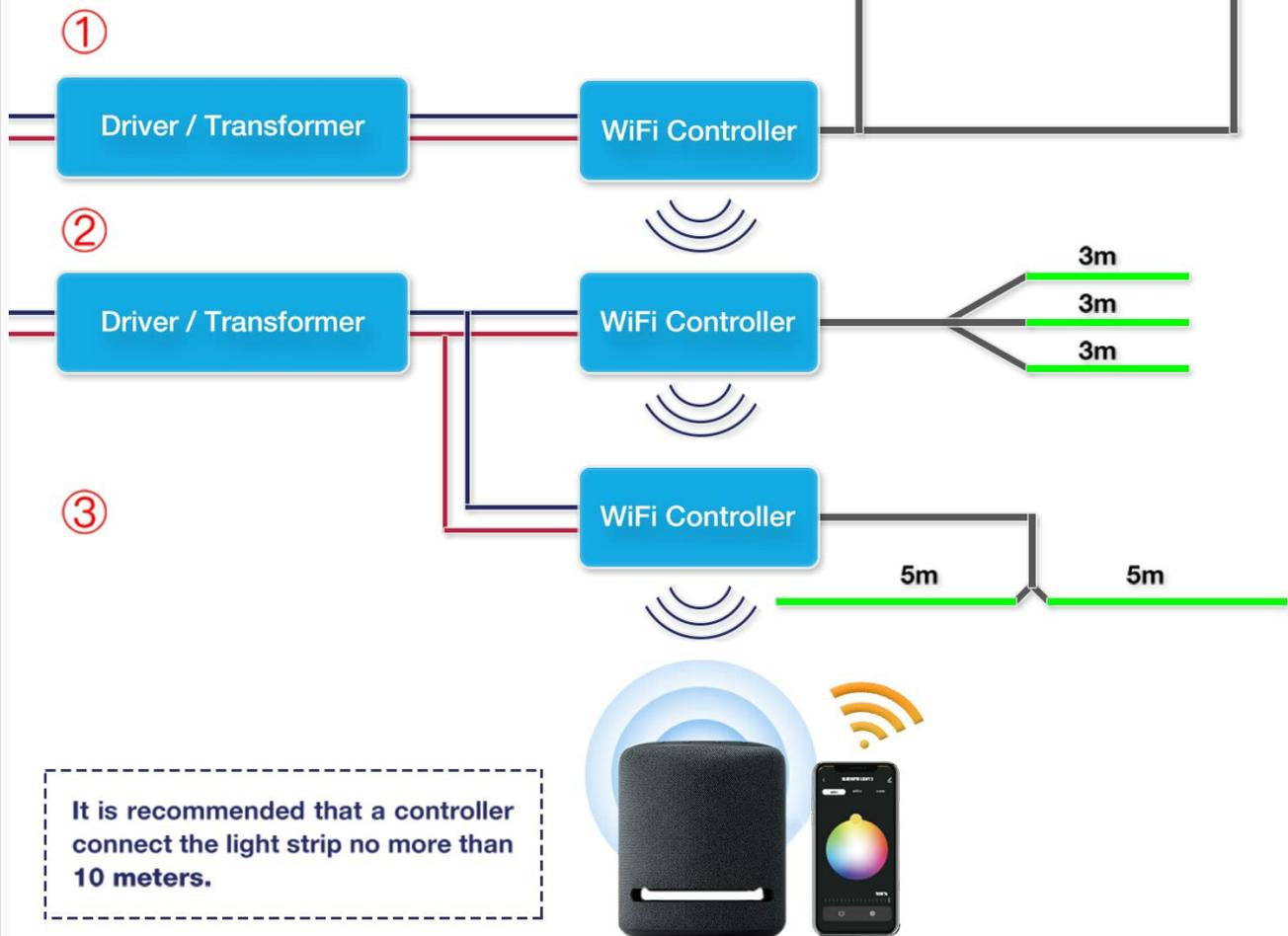


Image 3.4: Diagram illustrating three common connection types for LED strips with the WiFi controller, including power driver/transformer and recommended strip lengths.

4. OPERATION

Once the controller is successfully set up and paired with the Tuya Smart Life app, you can control your LED strip lights using the app or voice commands.

4.1. App Control

The Tuya Smart Life app provides comprehensive control over your LED strip lights:

- **Color Adjustment:** Select from 16 million colors to create your desired ambiance.
- **Color Temperature Regulation:** Adjust the white light from warm white to cool white.
- **Brightness Adjustment:** Dim or brighten the lights to your preferred level.
- **Scene Modes:** Utilize pre-set or custom scene modes for different occasions.

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4.2. Voice Control

Integrate your GLEDOPTO controller with Amazon Alexa or Google Home for hands-free control. Once linked, you can use voice commands such as:

- "Alexa, turn on the light."
- "Hey Google, set the living room to cool white."
- "Alexa, increase brightness to 70%."

5. MAINTENANCE

The GLEDOPTO WiFi RGBCCT LED Strip Controller requires minimal maintenance. To ensure longevity and optimal performance:

- Keep the device clean and free from dust. Use a dry, soft cloth for cleaning.
- Avoid exposing the controller to moisture or extreme temperatures.
- Do not attempt to open or repair the device yourself, as this will void the warranty.

6. TROUBLESHOOTING

If you encounter issues with your GLEDOPTO WiFi RGBCCT LED Strip Controller, consider the following common solutions:

- **Device Not Connecting to WiFi:**
 - Ensure your WiFi network is 2.4GHz. The controller does not support 5GHz networks.
 - Check that the controller is within range of your WiFi router.
 - Restart the controller by unplugging and re-plugging the power.
 - Restart your WiFi router.
 - Attempt to re-pair the device through the Tuya Smart Life app.
- **LED Strip Not Responding:**
 - Verify all wiring connections between the power supply, controller, and LED strip are secure and correct.
 - Check if the power supply is functioning correctly and providing the appropriate voltage (DC12-54V).
 - Ensure the LED strip itself is not faulty.
- **Voice Control Issues:**
 - Confirm that the controller is successfully linked to your Amazon Alexa or Google Home account via the Tuya Smart Life app.
 - Check your internet connection.
 - Ensure your voice commands are clear and match the device names configured in the app.

If problems persist, please refer to the support section for further assistance.

7. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Product Name	WiFi RGB CCT LED Controller
Model No.	GL-C-008W
Input Voltage	DC 12-54V
Total Power	270W Max.
Output Current/Channel	5 A Max.
Total Output Current	10 A Max.
Operating Temperature	-20°C to +60°C
Protection Rating	IP20
Connectivity Protocol	Wi-Fi (2.4GHz)
Control Method	App, Voice
Dimensions (L x W x H)	3.5 x 1.89 x 0.93 inches (89 x 48 x 23.5 mm)
Item Weight	2.39 ounces
Material	Acrylonitrile Butadiene Styrene, Metal
Common Anode	Constant Voltage

8. WARRANTY INFORMATION

Specific warranty details for the GLEDOPTO WiFi RGB CCT LED Strip Controller are typically provided with the product packaging or on the manufacturer's official website. Please refer to these sources for the most accurate and up-to-date warranty terms and conditions.

9. CUSTOMER SUPPORT

For technical assistance, troubleshooting not covered in this manual, or warranty claims, please contact GLEDOPTO customer support through their official website or the contact information provided in your product packaging. When contacting support, please have your product model number (GL-C-008W) and purchase details ready.