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## GLEDOPTO GL-C-208M

# GLEDOPTO GL-C-208M Matter RGBCCT LED Strip Light Controller User Manual

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, setup, and operation of your GLEDOPTO GL-C-208M Matter RGBCCT LED Strip Light Controller. This device offers advanced control over RGBCCT LED strips, enabling precise color and tunable white light adjustments. It is Matter-certified for broad compatibility with leading smart home platforms.



Image: The GLEDOPTO ACK RGBCCT LED Controller, highlighting its Amazon Zero-Touch Connect feature and Matter over WiFi capability.

## 2. PRODUCT FEATURES

- Reliable Connectivity:** Matter-certified for seamless integration with Alexa, Google Assistant, and Apple Home.
- Professional RGBCCT Control:** Offers precise RGB color and tunable white light adjustment (warm to cool).
- Power Specifications:** Supports DC 5-24V input with up to 15A per channel and 20A total output.
- Offline Functionality:** Works even when the internet is offline with Matter-compatible hubs.
- Amazon Alexa Simple Setup:** Exclusive zero-touch pairing for compatible Echo devices.

- **Remote Control:** Manage lighting via the Alexa app from any location (requires Matter-compatible Echo device at home).
- **Customization:** Access 16 million colors and adjust brightness from 1-100%. Create custom routines.
- **Safe Installation:** Flame-retardant PC housing with tool-free Easy connectors.

# Cross - platform compatibility

Be compatible with multiple smart home platforms



Home app  
HomePod



Amazon Alexa app  
Echo Dot



Google Home app,  
Google Nest



Image: The GLEDOPTO Smart LED Controller demonstrating its compatibility with multiple smart home platforms including Apple Home, Amazon Alexa, and Google Home.

# ACK-Certified Matter Controller

This product is certified by Amazon to work with Alexa. This product can be controlled with your voice through Alexa-enabled devices such as Amazon Echo and Amazon Tap.



Image: A certificate confirming the GLEDOPTO LED Controller is ACK-Certified Matter, ensuring compatibility with Alexa-enabled devices.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x Packaging Box
- 1 x Smart LED Controller (GL-C-208M)
- 1 x User Instruction Manual
- 1 x 3cm Sticker



Image: Visual representation of the package contents, including the controller, packaging box, user manual, and a sticker.

## 4. PRODUCT OVERVIEW

The GLEDOPTO GL-C-208M controller features a compact design with clearly labeled input and output terminals, an indicator light, and control buttons.

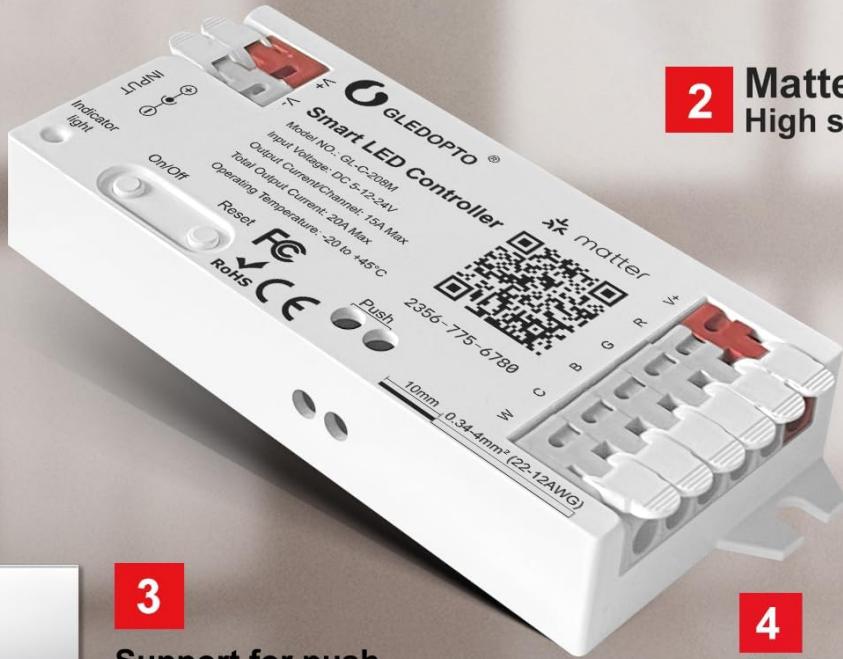


Image: A detailed view of the GLEDOPTO GL-C-208M Smart LED Controller, highlighting its input (V+/V-), output (R, G, B, C, W), indicator light, On/Off and Reset buttons, and Matter QR code.

# Product details

Details create quality

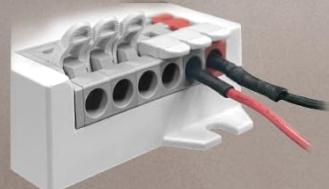
**1** Total Output Current  
**20A Max**



**2** Matter  
High security



**3**  
Support for push  
button switch.



**4**  
Quick wire connector  
Easy wiring

Image: Key product details of the controller, including its 20A maximum output current, Matter high security, support for external push button switches, and quick wire connectors for easy wiring.

## 5. SETUP AND INSTALLATION

### 5.1 Wiring Instructions

The controller features tool-free quick wire connectors for easy and secure connections. Ensure the power supply is disconnected before wiring.

- Open the Connector:** Gently press down on the top of the connector to open the terminal.
- Insert Wires:** Insert the appropriate wires (V+, R, G, B, C, W) from your LED strip into the corresponding terminals.
- Secure Wires:** Release the connector to secure the wires in place.
- Power Input:** Connect your DC 5-24V power supply to the V+/V- input terminals or use the DC 5.5x2.1mm jack.

# Product parameters

Craftsman spirit, quality is guaranteed



**Model No.:**

GL-C-208M

**Input voltage:**

DC 5-12-24V

**Output Current/Channel:**

15A Max

**Total Output Current:**

20A Max

**Protocol:**

Matter over WiFi

**Material:**

Flame Retardant PC

**Wire Type:**

0.34-4mm²(22-12AWG)

**Stripping Length:**

10mm

**N.W.:**

55.1g

**G.W.:**

63.1g

**Operating Temperature:**

-20~45°C

**Size:**

108x45x18mm

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

## 5.2 Zero-Touch Pairing (Amazon Alexa)

For Amazon Alexa users, the GLEDOPTO controller supports Zero-Touch Pairing for simplified setup.

- 1. Prepare Echo Device:** Ensure your Echo device is updated (say "Alexa, check for updates") and registered to your Amazon account.
- 2. Power On Controller:** Connect the GLEDOPTO controller to power.
- 3. Automatic Pairing:** If purchased with "Link to your Alexa" selected at checkout, the device should automatically appear in the Alexa app.
- 4. Complete Setup:** Follow the prompts in the Alexa app to complete the setup.

**Note:** A Matter-compatible Echo device is required for remote control and zero-touch pairing.

# Zero-Touch Pairing Guide

## Step1



Pre-save the WiFi SSID and password. Ensure that an Echo device is already registered.

## Step2



The user's account used for placing the order must be the same as the Echo device's account.

## Step3



Purchase the device on amazon.com.

## Step4

Link to your Alexa account and to Sengled to simplify setup. *Sengled's Privacy Policy*

Once FFS support is available, you will see this option on the product's detail page; just check the box.

## Step5



After powering on the device, wait for a short period. A pairing device will automatically appear in the Alexa interface, then select it to connect.

**Note: A Matter-compatible Echo device is required.**

Image: A five-step guide illustrating the Zero-Touch Pairing process for Amazon Alexa, from pre-saving WiFi to automatic device detection in the Alexa app.

## ACK Zero-touch

Same network and account, directly connect and use, no need to scan code

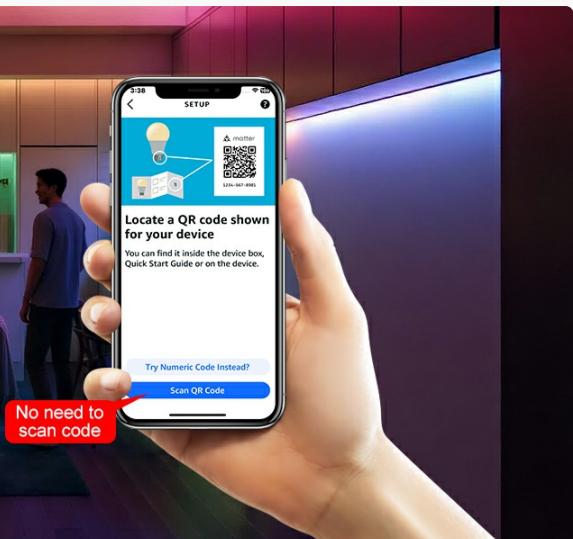


Image: A comparison showing the simplicity of ACK Zero-touch pairing versus traditional pairing methods, emphasizing direct connection without scanning codes.

Video: This video demonstrates the GLEDOPTO ACK Matter RGB CCT LED Controller's Zero-Touch Pairing process, showcasing how it simplifies connecting the device to your smart home system compared to traditional methods.

## 5.3 General Smart Home Connection (Matter)

For other Matter-compatible platforms (Apple Home, Google Home), follow the standard Matter pairing process:

- 1. Power On:** Connect the GLEDOPTO controller to power.
- 2. Open App:** Open your preferred smart home application (e.g., Apple Home, Google Home, Alexa app).
- 3. Add Device:** Navigate to the 'Add Device' or '+' option within the app.
- 4. Scan QR Code:** Scan the Matter QR code located on the controller or in the quick start guide.
- 5. Follow Prompts:** Complete the pairing process by following the on-screen instructions in your smart home app.

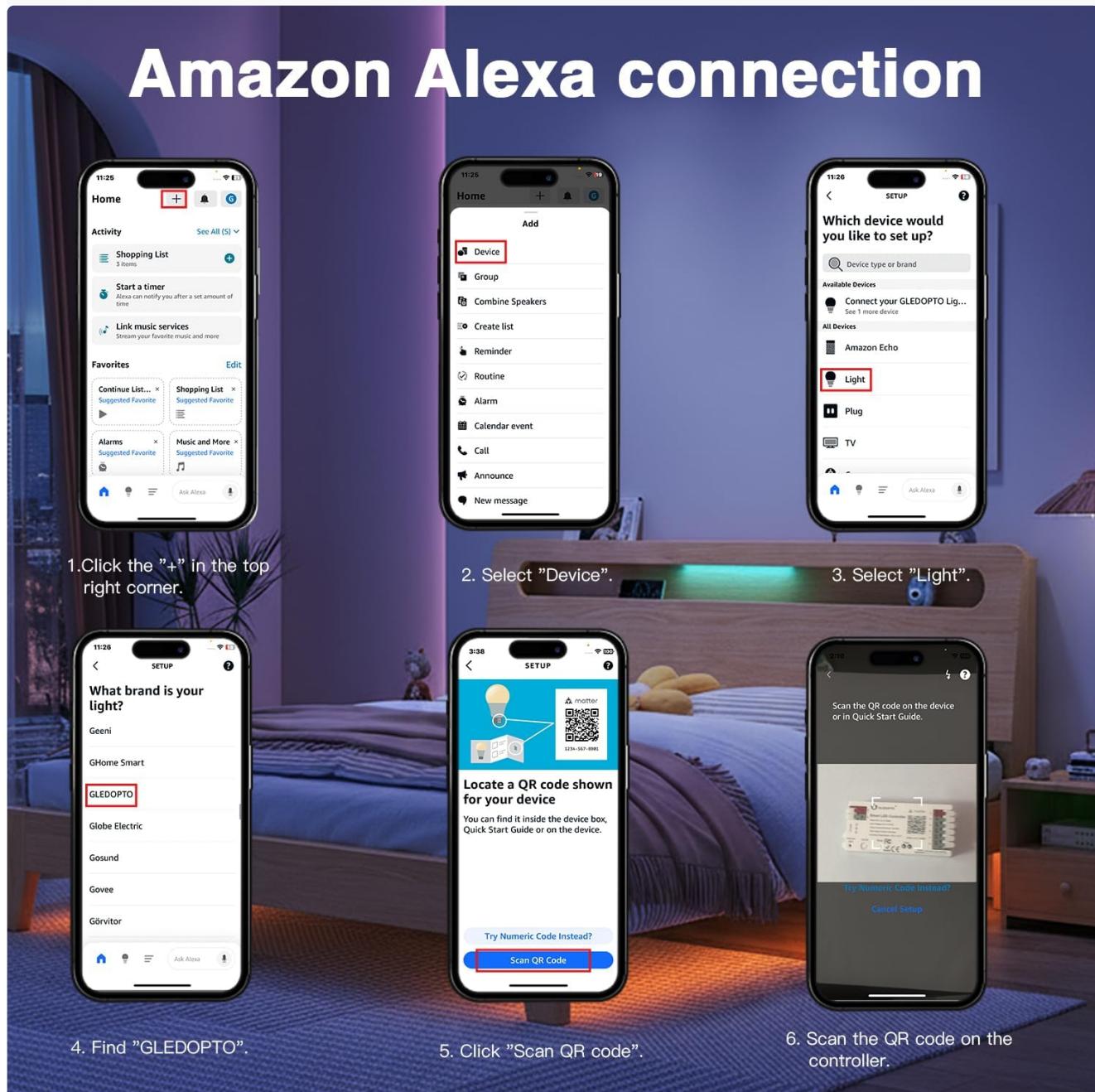


Image: A six-step visual guide detailing how to connect the GLEDOPTO controller to Amazon Alexa, including navigating the app, selecting the device type, and scanning the QR code.

## 6. OPERATION

## 6.1 App Control

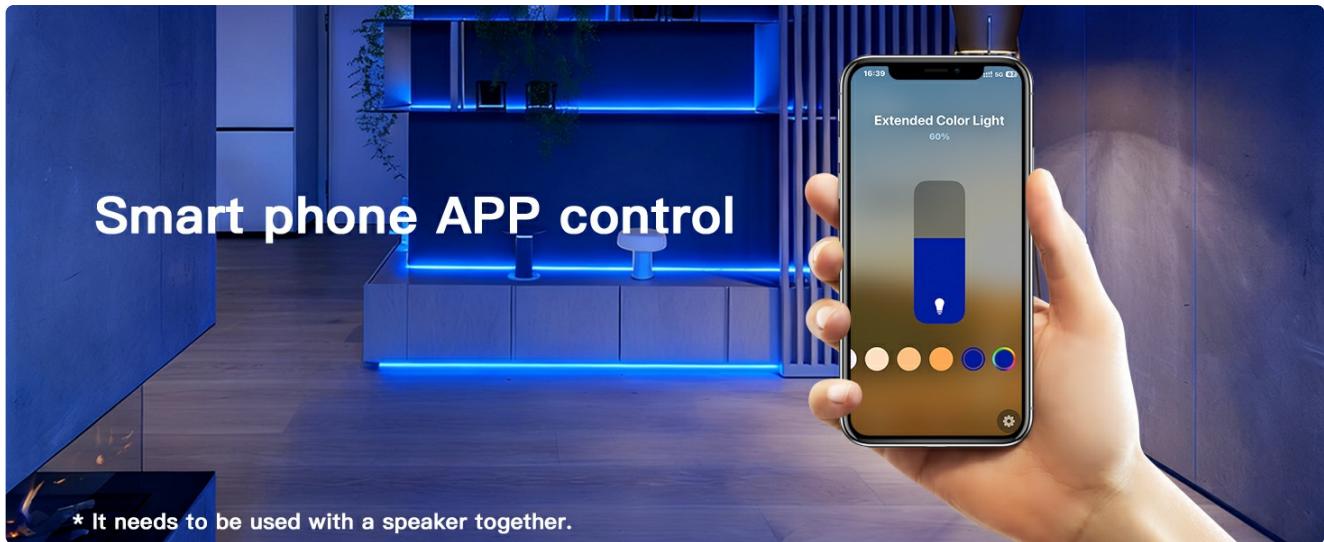
Once paired, use your smart home app (Alexa, Google Home, Apple Home) to control your LED strip lights.

- **Color Selection:** Choose from 16 million colors to set the ambiance.
- **Brightness Adjustment:** Adjust the light intensity from 1% to 100%.
- **Color Temperature:** Tune white light from warm to cool tones.
- **Scenes and Routines:** Create custom scenes or schedule routines for automated lighting.

**Note:** RGB and white LEDs cannot illuminate simultaneously for accurate color control.



Image: The smart home app interface demonstrating the ability to select from 16 million colors, adjust color temperature, and control brightness from 1% to 100%.



\* It needs to be used with a speaker together.

Image: A smartphone displaying the app interface for controlling LED lighting, showing color and brightness adjustments.

## 6.2 Voice Control

Utilize voice commands through your Matter-compatible smart speaker (e.g., Amazon Echo, Google Nest, Apple HomePod) for hands-free control.

- **Turn On/Off:** "Alexa, turn on the living room light."
- **Adjust Brightness:** "Hey Siri, brightness increased to 70%."
- **Change Color:** "Ok Google, change the light to blue."

**Note:** The controller and your smart speaker must be on the same network for voice control functionality.

# Voice control

The controller and HomePod must be in the same network



Image: A living room setting demonstrating voice control of LED lighting using a smart speaker, with examples of commands for Siri and Google Assistant.

## 7. SPECIFICATIONS

| Parameter              | Value                            |
|------------------------|----------------------------------|
| Model No.              | GL-C-208M                        |
| Input Voltage          | DC 5-12-24V                      |
| Output Current/Channel | 15A Max                          |
| Total Output Current   | 20A Max                          |
| Protocol               | Matter over WiFi                 |
| Wire Type              | 0.34-4mm <sup>2</sup> (22-12AWG) |

|                       |   |
|-----------------------|---|
| Stripping Length      | 10mm                                    |
| Material              | Flame Retardant PC                      |
| Operating Temperature | -20 to +45°C                            |
| Item Weight           | 1.76 ounces (50g approx)                |
| Dimensions            | 4.29 x 1.89 x 0.82 inches (108x45x18mm) |



Image: A visual representation of the product parameters, including model number, input voltage, output current, protocol, and physical dimensions.

## 8. TROUBLESHOOTING

- **Device Not Pairing:**

- Ensure your smart home hub (e.g., Echo device) is Matter-compatible and updated.
- Verify the controller is powered on and within range of your Wi-Fi network.
- Confirm your smart home app is updated to the latest version.
- Try resetting the controller by pressing the 'Reset' button.

- **Lights Not Responding:**

- Check all wiring connections to ensure they are secure and correct.
- Verify the power supply is functioning correctly and providing the correct voltage.
- Ensure the controller and your smart speaker/app are on the same Wi-Fi network.

- **Inconsistent Color/Brightness:**

- Confirm that your LED strip is RGBCCT compatible.
- Note that RGB and white LEDs cannot be active simultaneously for accurate color mixing.

- **Loss of Settings After Power Off:**

- Some smart home systems may not retain settings if the controller loses power completely. This is a system-level behavior rather than a device fault.

## 9. WARRANTY AND SUPPORT

The GLEDOPTO GL-C-208M Matter RGBCCT LED Strip Light Controller comes with a **2-year manufacturer's warranty**.

For technical support, troubleshooting assistance, or warranty claims, please contact GLEDOPTO customer service through the platform where you purchased the product or visit the official GLEDOPTO website for contact information.