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> [GLEDOPTO Zigbee Pro RGBCCT LED Strip Controller RGB CCT RGBW RGBWW 5 in 1 Compatible with SmartThings Amazon Echo Plus App/Voice Control \(Zigbee Pro RGBCCT Controller with Reset Key\) Zigbee Pro RGBCCT Controller 1ID](#)

MJJC GL-C-008P

GLEDOPTO Zigbee Pro RGBCCT LED Strip Controller User Manual

MODEL: GL-C-008P

Brand: MJJC

INTRODUCTION

This user manual provides comprehensive instructions for the GLEDOPTO Zigbee Pro RGBCCT LED Strip Controller (Model: GL-C-008P). This advanced controller is designed for use with Single Color, WW CW, RGB, RGBW, and RGBCCT LED strip lights, offering enhanced control and compatibility with various smart home ecosystems. Please read this manual thoroughly before installation and operation to ensure proper use and optimal performance.

PRODUCT FEATURES

- **Upgraded Zigbee Pro Version:** Offers faster and more stable performance, allowing for smoother adjustments of color, color temperature, and brightness.
- **5-in-1 Controller:** Compatible with Single Color, WW CW, RGB, RGBW, and RGBCCT LED Strip Lights, providing versatile lighting solutions.
- **Wide Compatibility:** Seamlessly integrates with popular smart home platforms such as Samsung SmartThings, Osram Lightify, Amazon Echo Plus, and Ikea Tradfri.
- **Single ID Recognition:** Functions as a 1ID controller, appearing as a single device in your application, similar to Philips Hue Light Strip Plus.
- **Philips Hue App Integration:** Fully integrates into the Philips Hue app for managing scenes, dimming controls, colors, and timers.

PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Packaging Box
- 1 x GLEDOPTO Zigbee 3.0 RGB+CCT LED Controller (Model: GL-C-008P)

- 1 x User Instruction Manual
- 1 x 3cm Sticker

Package Included

The contents of the package.



Figure 1: Contents of the product package, including the controller, manual, and sticker.

SPECIFICATIONS

Attribute	Value
Product Name	ZIGBEE RGB+CCT Strip Controller
Model No.	GL-C-008P
Voltage	DC12V-24V

Output Current/Channel	Max. 6A
Total Output Current	Max. 15A
Total Power	Max. 270W
Product Size	89 x 48 x 23.5 mm (3.5 x 1.89 x 0.93 inches)
Operating Temperature	-20 to +60°C
Connectivity Protocol	Zigbee
Indoor/Outdoor Usage	Indoor
Water Resistance Level	Not Water Resistant



Figure 2: Front view of the GLEDOPTO Zigbee Pro RGB CCT LED Controller, showing model number and input/output details.

SETUP INSTRUCTIONS

Follow these steps to set up your GLEDOPTO Zigbee Pro RGB CCT LED Strip Controller:

- 1. Power Your Light Sources:** Connect your LED strip product to the controller. Ensure the correct mode is selected if applicable. Use the press-type design for wiring; no screwing is required. Then, connect the controller to a suitable power adapter (DC12V-24V) and plug it into a power socket.
- 2. Set Up Your WiFi Gateway:** Plug in your Zigbee Light Link Gateway (e.g., Philips Hue Bridge). It will automatically power up. Connect it to your WiFi router using an Ethernet cable.
- 3. Connect with Gateway (Device Searching):**
 - Start the device searching function on your Zigbee Light Link Gateway's application. This process may take some time.
 - If the Gateway does not find the device, try power cycling the controller (unplug and plug back in) or perform a reset (refer to the Troubleshooting section for reset instructions).
 - If issues persist, try restarting your router and gateway.

4. **Assign and Control:** Once the Gateway finds your device, you can assign it to different rooms, zones, or groups within your smart home application. You can now use the application to control the LED strip, including color temperature and brightness.

COMPARISON CHART

Pro vs. Zigbee.

Comparative projects	Zigbee PRO	Zigbee
Power-up speed	Within 1S	Within 3S
Zigbee distance	31M	22M
Standby power	0.3W (spotlight); controller 13mA	0.5W (spotlight); controller 40mA
Mesh	YES	NO
Multiple lights powered up simultaneously	Lights up almost simultaneously	Doesn't light up at the same time
Fall asleep & Wake up	Transition time accuracy	Inaccurate transition times
Adjust Color	Smoother	Jiggle
Adjust brightness	Smoother	Jiggle
Minimum brightness	Darker	–
Color at low brightness	More accurate	Reddish
Color temperature transition to colored light	The color temperature slowly goes out and the colored light slowly comes on	The colored light will first change to the previous color
Color light transition to color temperature	Smoother	The colored lights will first turn to the previous color temperature
Secondary lights search	It's easy to search for lights	Sometimes the app doesn't show the name of the light

Figure 3: Wiring diagram for the GLEDOPTO controller, illustrating input and output connections.

Steps for usage

STEP 1

Input 5.5x2.1mm DC Socket.

Press

POWER YOUR LIGHT SOURCES

Please connect the light strip, controller, adapter, and plug in the power. Switching the right mode. Press type design, not screw.

press type design, not screw.

STEP 2

SET UP YOUR WIFI

Plug in your bridge and it will automatically power up. Connect it to your wifi router using the network cable provided.

STEP 3

DOWNLOAD THE TUYA APP

Start the device searching, it could take some time. If does not find the device, power off/on or make a reset.

STEP 4

COMPLETE THE SETUP AND CONTROL THE LIGHTS.

You can control color temperature and brightness of the light strip

Figure 4: Visual guide detailing the four main steps for controller setup, from power connection to app control.

OPERATING INSTRUCTIONS

The GLEDOPTO Zigbee Pro RGB CCT LED Strip Controller offers flexible control options through compatible smart home applications and voice assistants.

App Control:

Utilize your smart home app (e.g., Philips Hue, SmartThings) to manage your LED strip lights. The app allows for:

- **Color Changing:** Access a palette of 16 million colors to set the perfect ambiance for any occasion.
- **Color Temperature Adjustment:** Fine-tune the white light from warm white to cool white to suit your preference.
- **Brightness Control:** Dim or brighten your lights to the desired intensity.
- **Scene Management:** Create and activate custom lighting scenes for different moods or activities.
- **Timers and Schedules:** Set automated on/off times and schedules for your lights.
- **Multiple DIY Scenes:** Explore and create various personalized lighting scenarios.

Works with Amazon echo plus

You can adjust on/off , brightness , and change light colors through voice command,which can free your hands.

Alexa, turn the light to warm white.

OK!



Figure 5: App interface demonstrating the wide range of 16 million colors available for selection.

16 Million Colors changing

There's always the color you want.



Figure 6: App interface for adjusting the color temperature of the LED strip lights.

Voice Control:

When connected to compatible voice assistants like Amazon Echo Plus, you can control your lights using simple voice commands. For example, say "Alexa, turn the light to warm white" to adjust the lighting hands-free.

Color temperature regulation

Adjust color temperature according to strip light

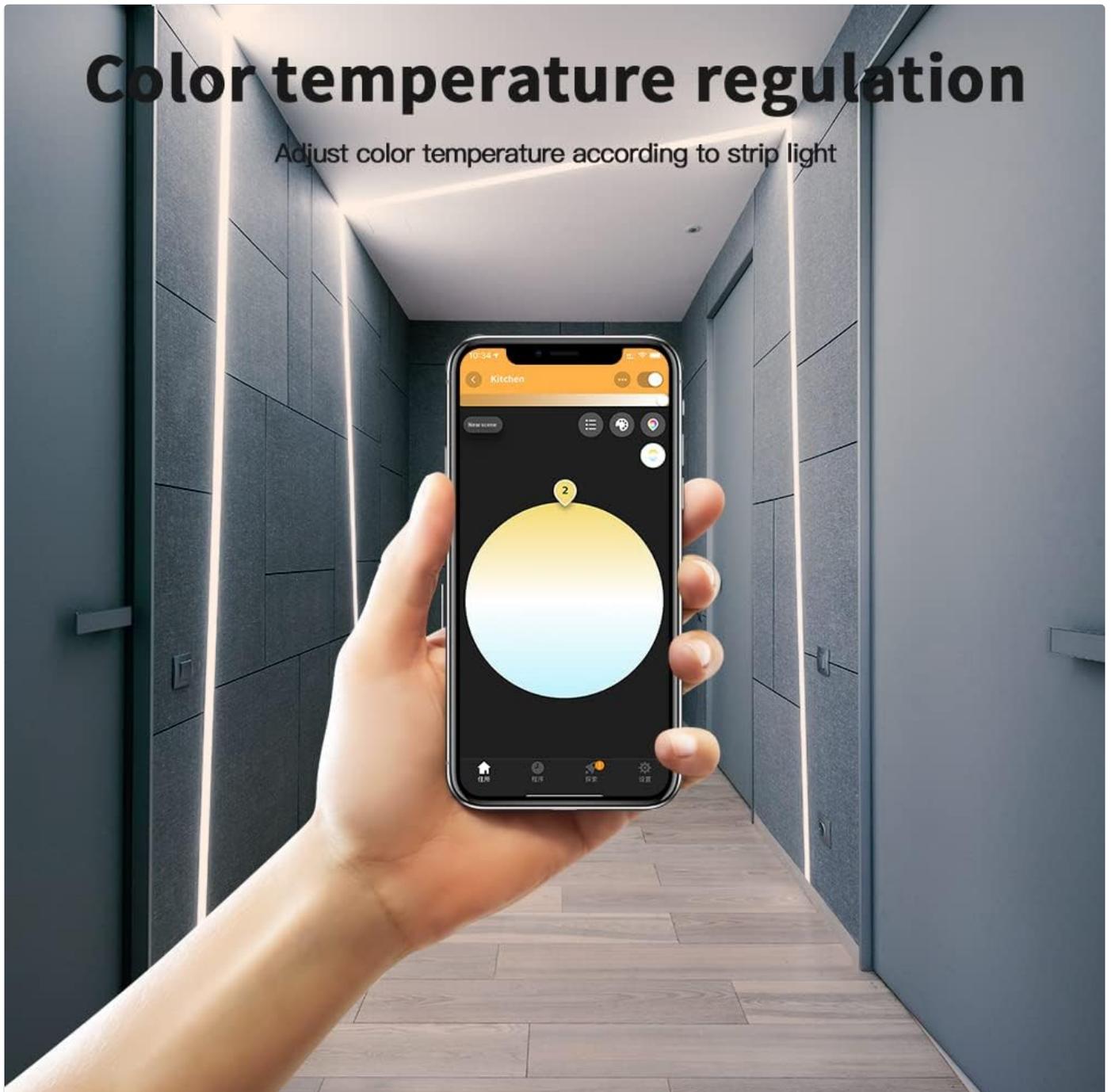


Figure 7: Illustration of voice control functionality with Amazon Echo Plus.

Product Demonstration Video:

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Video 1: A demonstration of the Gledopto Zigbee Pro Controller for RGBW RGCCT LED Strip, showcasing its features and operation within a smart home environment.

MAINTENANCE

To ensure the longevity and optimal performance of your GLEDOPTO Zigbee Pro RGCCT LED Strip Controller, follow these simple maintenance guidelines:

- Keep the controller in a dry environment, away from moisture and humidity.
- Avoid exposing the device to extreme temperatures.
- Clean the exterior of the controller with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Ensure proper ventilation around the controller to prevent overheating.

TROUBLESHOOTING

If you encounter issues with your GLEDOPTO Zigbee Pro RGB CCT LED Strip Controller, refer to the following common solutions:

Problem	Possible Cause	Solution
Gateway does not find the device.	Device not in pairing mode, network interference, or temporary glitch.	<ul style="list-style-type: none">◦ Ensure the LED product is connected to power.◦ Start device searching on your Zigbee Light Link Gateway.◦ If not found, power cycle the controller (unplug and plug back in).◦ Perform a reset on the controller (see below).◦ Restart your router and gateway.
LED strip not responding after reset.	Improper reset procedure or continued network issue.	<ul style="list-style-type: none">◦ Ensure the reset button is pressed correctly.◦ Verify power supply to the controller and LED strip.◦ Re-attempt pairing with the gateway after reset.

Reset Function:

The controller features a reset button for easy troubleshooting and re-pairing:

- **Short press:** Press the reset button once to turn the LED strip on or off.
- **Long press (>2 seconds):** Press and hold the reset button for more than 2 seconds. The LED strip will blink 3 times, indicating that the reset is successful. This will reset the controller to factory defaults and put it into pairing mode.

