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### lighteu GL-C-006P(mini)

# LIGHTEU® GLEDOPTO Zigbee CCT Dual White LED Controller Instruction Manual

Model: GL-C-006P(mini)

Brand: LIGHTEU

## INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your GLEDOPTO Zigbee CCT WW/CW LED Controller. This ultrathin controller is designed for Dual White LED strips, offering adjustable color temperature and compatibility with various smart home systems.

## PRODUCT OVERVIEW

The GLEDOPTO GL-C-006P(mini) is a compact and efficient LED controller designed for CCT (Correlated Color Temperature) LED strips. It allows for precise control over warm white and cold white light, enabling a wide range of lighting moods.



Figure 1: Front view of the GLEDOPTO Zigbee Mini WW/CW Ultra Thin LED Controller, showing input/output ports and model information.

# Zigbee Mini WW/CW Ultra Thin LED Controller



Voice  
control



APP  
control



2.4G RF  
Remote control



Frequency  
settings



Power on status  
settings



Figure 2: The controller highlighting key features such as Voice Control, APP Control, 2.4G RF Remote Control, Frequency Settings, and Power On Status Settings.

## Key Features:

- CCT-Dual-White-LED-Streifen-Controller: Controls Dual-White LED strips with adjustable color temperature (2700K to 7000K).
- Voice Control: Compatible with Alexa Echo Plus and Google Home for voice commands (on/off, brightness, color temperature).
- APP Control: Manage lights via smartphone app, including music rhythm sync and group control.
- RF Remote Control and Mesh Function: Can be controlled with a GLEDOPTO 6-group remote (GL-RC-006Z). Each controller acts as a signal repeater to extend control range.
- Wide Compatibility: Works with Zigbee Light Link, Philips Hue, Ikea Tradfri, Osram Lightify, Amazon Echo Plus, and more.

## SPECIFICATIONS

Specification	Value
Model	ZL-C-006P(mini) CCT-CW/WW
Input Voltage	DC5-24V
Input Port	DC0050 and separate wires
Total Output Current	6A (Max)
Output Current/Channel	3A (Max)
Total Power	144W (Max)
Protection Rate	IP20
Operating Temperature	-20 to +45°C
Connectivity Protocol	Zigbee, Bluetooth, WLAN (via hub)
Light Color	Warm White, Cold White
Color Temperature Range	2000K - 6500K (adjustable)
Form Factor	Ultradünn with connections for LED strips
Included Components	ZigBee CCT-CW-WW module (One SSID), 1* manual

Note: Power adapter and LED strip are NOT included. A Zigbee hub or gateway is required for smart control.

## SETUP INSTRUCTIONS

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

- 1. Prepare Components:** Ensure you have the GLEDOPTO controller, a compatible DC5-24V power adapter, and a CCT Dual White LED strip. A Zigbee hub is also required for smart control.
- 2. Connect LED Strip:** Connect the warm white (WW) and cold white (CW) wires from your LED strip to the corresponding terminals on the controller (V+, CW, WW). Ensure correct polarity.
- 3. Connect Power:** Connect the DC5-24V power adapter to the controller's input port (DC0050 or separate wires).
- 4. Power On:** Plug in the power adapter. The indicator light on the controller should illuminate.
- 5. Pair with Zigbee Hub:**
  - Put your Zigbee hub (e.g., Philips Hue, Amazon Echo Plus, Ikea Tradfri) into pairing mode.
  - On the GLEDOPTO controller, press and hold the 'Reset' button for approximately 3 seconds until the indicator light flashes, indicating it's in pairing mode.
  - Once successfully paired, the LED strip connected to the controller will flash or change color, and the controller will appear in your Zigbee hub's app.
- 6. Test Functionality:** Use your Zigbee hub's app or a compatible remote control to test the on/off, brightness, and color temperature adjustment functions.

For detailed pairing instructions specific to your Zigbee hub, please refer to your hub's user manual.

## OPERATING INSTRUCTIONS

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Once set up, you can control your LED strip using various methods:

## 1. Brightness Adjustment

Adjust the light intensity from 0% to 100% to suit your needs.



Figure 3: Visual representation of brightness adjustment, allowing users to set the desired light intensity.

## 2. Color Temperature Regulation

Change the color temperature from warm white (approx. 2000K) to cold white (approx. 6500K) to create different ambiances.

# Color temperature regulation

Adjust the color temperature from 2000~6500K,  
make the light you want.



Figure 4: Illustrates the range of color temperatures from warm (2000K) to cool (6500K) and their visual effect in a room.

# Color temperature regulation

Color temperature change from 2000K to 6500K.



Figure 5: Demonstrates the visual difference between warm white and cold white light settings on a typical desk environment.

### 3. Smartphone APP Control

Use the dedicated smartphone application (via your Zigbee hub's app) to control your lights from anywhere. This includes setting groups, schedules, and syncing with music.

# Smart phone APP control

You can control the lights in all rooms through the mobile app, making your life more convenient.



- Support control by zigbee hub after adding a thing to its APP

Figure 6: A smartphone screen showing the mobile application interface for controlling the LED lights, including color and brightness adjustments.

## 4. Remote Control (Optional)

If you have a GLEDOPTO 6-group remote (GL-RC-006Z), you can control the lights directly without a Zigbee hub. This allows for dividing different rooms into different control groups.

# Remote Control (without zigbee hub)

You can control the lights directly with a remote control, divide different rooms into different groups.



## Usage scenarios



Figure 7: An illustration of the GLEDOPTO remote control's functionality, demonstrating how it can control lights in various rooms and scenarios like living room, bedroom, kitchen, and more.

## 5. Voice Control

Integrate with Amazon Echo Plus or Google Home for hands-free control. Simply use voice commands to turn lights on/off, adjust brightness, or change color temperature.

# 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 on the light.**

**OKAY!**

**RF remote control, app control and voice control**

**“Alexa, turn off the light.”**

**“Alexa, set to yellow.”**

**“Alexa, increase to 70%.”**

Figure 8: Depicts the voice control capability with Amazon Echo, showing examples of commands like "Alexa, turn on the light" or "Alexa, increase to 70%".

## MAINTENANCE

To ensure optimal performance and longevity of your GLEDOPTO LED Controller, follow these maintenance guidelines:

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth to wipe the controller. Do not use liquid cleaners or abrasive materials.
- **Environment:** Ensure the controller is installed in a dry environment, away from direct sunlight, high temperatures, and excessive humidity. The IP20 rating means it is not protected against water.
- **Connections:** Periodically check all wire connections to ensure they are secure and free from corrosion.
- **Firmware Updates:** Check your Zigbee hub's app for any available firmware updates for the controller, as these can improve performance and add new features.

## TROUBLESHOOTING

If you encounter issues with your GLEDOPTO LED Controller, refer to the following common problems and solutions:

- **LED Strip Not Lighting Up:**

- Check power supply: Ensure the power adapter is correctly connected and providing the correct voltage (DC5-24V).
- Check LED strip connections: Verify that the LED strip wires are securely connected to the controller's V+, CW, and WW terminals with correct polarity.
- Test LED strip: Connect the LED strip directly to a known working power supply to confirm the strip itself is functional.

- **Controller Not Pairing with Zigbee Hub:**

- Ensure the controller is within range of the Zigbee hub.
- Put the Zigbee hub into pairing mode correctly.
- Perform a factory reset on the controller: Disconnect power, then reconnect and immediately press and hold the 'Reset' button for 5-10 seconds until the indicator light flashes rapidly. Then attempt pairing again.
- Check for interference: Other wireless devices might interfere with the Zigbee signal.

- **Brightness or Color Temperature Control Not Working:**

- Verify successful pairing with the Zigbee hub.
- Ensure you are using the correct control interface (app or remote) for the specific function.
- Check if the LED strip is a true CCT (Dual White) strip. Single color or RGB strips will not respond to color temperature changes.

- **Controller is Hot:**

- Ensure the total wattage of your LED strip does not exceed the controller's maximum output (144W). Overloading can cause overheating and damage.
- Ensure adequate ventilation around the controller.

If problems persist, contact LIGHTEU customer support for further assistance.

## WARRANTY AND SUPPORT

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For warranty information and customer support, please refer to the official LIGHTEU website or contact your retailer. Keep your purchase receipt as proof of purchase.

**Contact Information:**

- Brand: LIGHTEU
- Seller: LIGHTEU GMBH (as per Amazon buybox winner)
- For support, visit the [LIGHTEU Store on Amazon](#) or their official website.