GLEDOPTO

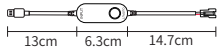
# Mini WLED Digital LED Controller User Instruction

ESP32: GL-MC-001WL、GL-MC-002WL
ESP8266: GL-MC-003WL、GL-MC-004WL

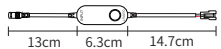
## Product parameters

Input voltage: DC 5V / DC 12~24V
Input current: 3A Max
Total output current: 3A Max
Material: PC
communication methods: WiFi
Temperature: -20~45°C
Supported digital LED strip IC model: WS2811, WS2812, WS2812B, FL19038, SK6812, SM16703P, SM16703SP3, etc.

**GL-MC-001WL / GL-MC-003WL**
**DC: 5V**




**GL-MC-002WL / GL-MC-004WL**
**DC: 12~24V**




## APP Download method



1. IOS : "App Store" Search and download WLED or WLED Native within the app.



2. Android: Download from the website https://github.com/Aircoooke/WLED-App/releases.

## APP configuration steps

1. Power on the WLED controller.
2. Open the phone settings and enter WiFi settings, find"WLED-AP" and connect to it with the password "wled1234".





3. After successful connection, it will automatically jump to the WLED page (or enter the website 4.3.2.1 in the browser to enter the WLED page).

4. Click "WIFI SETTINGS", set the WiFi account and password, and the click "Save & Connect" at the top of the screen to save.



5. Keep the phone and WLED controller connected to the same WIFI connection, enter the WLED APP (See figure 5-1), click the "+" in the upper right corner of the screen (See figure 5-2), and then click "DISCOVER LIGHTS..." (See figure 5-3). When the button below displays "Found WLED!", it means that the WLED controller has been found (See figure 5-4). Click the checkmark in the upper right corner to return to the main page. The found WLED controller will be displayed in the list (See figure 5-5).



Figure 5-1 Figure 5-2 Figure 5-3 Figure 5-4 Figure 5-5

## LED strip configuration

Go to the WLED control page and click on the "Config" button in the upper right corner. Then, select "LED Preferences" and navigate to "Hardware setup" to configure the LED strip information.



Note: GL-MC-001WL、GL-MC-002WL controller default output is GPIO16;
GL-MC-003WL、GL-MC-004WL controller default output is GPIO2.

## Description of button functions

OPT :

1. Short press: Power on/off.
2. Long press for 1 second: Switch colors.
3. Long press for 10 seconds: Reset the WLED controller and activate the WLED-AP hotspot.



## Microphone configuration (If this feature is available)

1. Go to the WLED control page, click on "Config" in the top right corner, select "Usermods", find "Digitalmic" after entering, configure according to the configuration information, click "Save" after configuration is complete, and then power off the controller.

2. Go to the WLED control page, click on "Info" at the top, click on the button next to "AudioReactive" to use the Mic.

**Configuration Information:**

1. Microphone type: Generic 12S
2. 12S SD pin: 26
3. 12S WS pin: 5
4. 12S SCK pin: 21



Note: After configuring the microphone parameters, you need to power off and on the controller once to use the microphone function.

## Reset to factory settings

### Button Reset:

Press and hold the OPT button for 10 seconds.

### APP Reset:

Go to the WLED control page and click on the top right corner "Config". Click on "Security & Updates" at the bottom, and then scroll down to find "Factory reset" and check the box. Click "Save" to reset the controller.



## Troubleshooting and solution

| Number | Symptoms | Solution |
|---|---|---|
| 1 | Indicator light is not on | Check whether the input power connection is correct |
| 2 | APP shows "offline" | 1. Check if the phone is on the same network as the controller.<br>2. Check if the controller is out of the range of the WIFI connection, causing unstable connection.<br>3. Turn off and on the controller to retry. |
| 3 | APP is connected, but the light strip is not controllable | 1. Check if the power supply is working properly.<br>2. Check if the power supply voltage matches the light strip.<br>3. Check if the input power connection is correct.<br>4. Check if the light strip connection is correct.<br>5. Check if the GPIO settings in the APP are correct.<br>6. Check if the light strip LED output model in the APP is set correctly. |
| 4 | The brightness of the light strip is low, and the front and back colors are significantly different | 1. Check if the power supply is working properly.<br>2. Check if the power supply matches the light strip.<br>3. Check if all connections are good, and use conductive and short wires as much as possible for connection.<br>4. Add power supply at an appropriate position.<br>5. Check if the APP has set a limit on brightness or current. |

Attention

1. Before turning on the power, please ensure that all connections are correct and secure, and do not operate while the power is on.
2. The product should be used under the rated voltage. Using it under excessive or insufficient voltage may cause damage.
3. Do not disassemble the product, as it may cause fire and electric shock.
4. Do not use the product in environments exposed to direct sunlight, moisture, high temperatures, etc.
5. Do not use the product in metal shielded areas or around strong magnetic fields, as this may severely affect the wireless signal transmission of the product.

## Disclaimers

1. Our company will update the content of this manual based on the improvement of product functionality. The updates will be displayed in the latest version of this manual, without further notice.
2. Due to our continuous adoption of new technologies, product specifications may change without further notice.
3. This manual is provided for reference and guidance only and does not guarantee complete consistency with the actual product. The actual application should be based on the actual product.
4. The components and accessories described in this manual do not represent the standard configuration of the product. The specific configuration is subject to the packaging.
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6. This product may be compatible with third-party products (such as apps, HUE, etc.), but our company does not take responsibility for compatibility issues or partial loss of functionality caused by changes in third-party products.

EC REP

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GL-MC-I-001WLv1.1