

WLED Series LED Strip Controller User Instruction



GL-C-014WL、GL-C-015WL GL-C-015WL-M. GL-C-015WL-D

ESP8266 WLED Digital LED Controller

Input Voltage: DC 5-24V Output Current/Channel: 10A Max

Total Output Current: 15A Max Wireless Communication: WiFi



Wiring Terminal Instructions

Model: GL-C-014WI

Temperature: -20~45°C

Dimensions: 108x45x18mm

The WLED controller can support a total of three output channels. The output terminal connections "G D V" correspond to the "GND DATA VCC" pins of the digital LED strips. Among them. D refers to the default output group for GPIO2, so please prioritize using this group. The other group, D for GPIO1, can only be used after configuration in the APP. IO14 is an extended GPIO signal port that can be customized for use.



ESP32 WLED Digital LED Controller Model: GL-C-015WI Input Voltage: DC 5-24V

Output Current/Channel: 10A Max Temperature: -20~45°C Dimensions: 108x45x18mm

Total Output Current: 15A Max Wireless Communication: WiFi



Wiring Terminal Instructions

The WLED controller can support a total of three output channels. The output terminal connections "G D V" correspond to the "GND DATA VCC" pins of the digital LED strips. Among them, D refers to the default output group for GPIO16, so please prioritize using this group. The other group, D for GPIO2, can only be used after configuration in the APP. IO33 is an extended GPIO signal port that can be customized for use.



ESP32 WLED Digital LED Controller with Mic Model: GL-C-015WL-M / GL-C-015WL-D Input Voltage: DC 5-24V

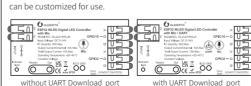
Output Current/Channel: 10A Max Temperature: -20~45°C Dimensions: 108x45x18mm

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Wiring Terminal Instructions

The WLED controller can support a total of three output channels. The output terminal connections "G D V" correspond to the "GND DATA VCC" pins of the digital LED strips. Among them, D refers to the default output group for GPIO16, so please prioritize using this group. The other group, D for GPIO2, can only be used after configuration in the APP, 1033 is an extended GPIO signal port that





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

APP Download Method

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

APP Configuration Steps

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



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.



right corner to return to the main page. The found WLED controller will be displayed in the list (See figure 5-5).

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

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



Relay Configuration

Relay Configuration Go to the WLED control page, click on the top right corner "Config", select "LED Preferences", then find "Relay GPIO", Configure Relay GPIO as 12, uncheck Invert, and click Save to apply the settings.



Note: When using this function, every time the light is turned on or off, the power to the output terminal will be simultaneously turned on or off to save electricity. It is important to note that this function cannot turn off the power

supply for backup power.

Mic Configuration (If this feature is available) . 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.

Description of Button Functions

Restart: Pressing the button will power off the controller module, releasing it will power it back on. Useful when the controller

needs to be restarted after configuring the microphone.

OPT button:

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

Reset to Factory Settings

1. Button Reset

Long press OPT button for 10 seconds.

2. 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.



UART Download (if this function is available)

- Open the controller case.
- 2. Remove the jumper cap 1) (used to connect the motherboard power).
- 3. Insert the Micro-B data cable to download. 4. After downloading, reinstall jumper cap.

Click "Save" to reset the controller.

Jumper cap(1

Supported Chips

WS2811, WS2811F, WS2812B, WS2814A, SK6812, SM16703, SM16703SP3, FL19038, FW1935, FL19038, etc.

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

Troubleshooting and Solution

Numbe



- and do not operate while the power is on. should be used under the rated voltage. Using it under excessive
- t voltage may cause damage. semble the product, as it may cause fire and electric shock.
- ne product in environments exposed to direct sunlight, moisture.
- he product in metal shielded areas or around strong magnetic
- may severely affect the wireless signal transmission of the
 - ny will update the content of this manual based on the at of product functionality. The updates will be displayed in the
- of this manual, without further notice. ontinuous adoption of new technologies, product specifications
- without further notice. l is provided for reference and guidance only and does not
- complete consistency with the actual product. The actual hould be based on the actual product.
- ents and accessories described in this manual do not represent configuration of the product. The specific configuration is subject

- es, and images in this manual are protected by relevant national
- not be used without our permission.
- may be compatible with third-party products (such as apps, hubs,
- company does not take responsibility for compatibility issues or
 - f functionality caused by changes in third-party products.
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