



GLEDOPTO

Elite 2D-MU
Advanced WLED Controller
— **User Instruction** —

GL-C-615WL

Product Parameter

Model: GL-C-615WL

Total Output Current: 15A Max

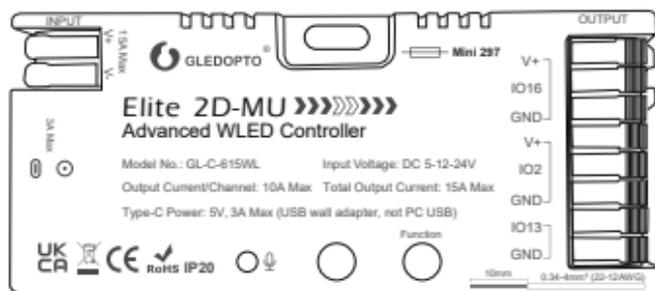
Type-C Input Voltage: 5V

Temperature: -20~45°C

Input Voltage: DC 5-12-24V

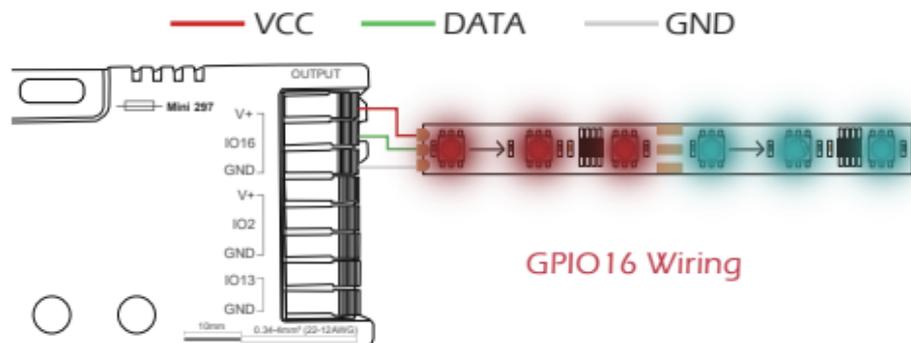
Output Current/Channel: 10A Max

Type-C Input Current: 3A Max



Wiring Terminal Instructions

1. WLEDcontroller supports connecting up to two digital LEDstrips. The output terminals labeled 'V+', GPIO16, GND; V+, GPIO2, GND' should be connected to the LEDstrip's 'VCC DATAGND'.
2. IO13 is an extended GPIOsignal port for custom use.



APP Download Method



IOS

Search for and download WLED Native in the App Store.



Android

Search for and download WLED Native in the Google Play Store.

APP Configuration Steps

1. Power on the WLEDcontroller.
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 WLEDpage (or enter the website 4.3.2.1 in the browser to enter the WLEDpage).

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



5. Keep both your phone and the WLED controller connected to the same Wi-Fi network. Then, open the WLED-Native APP, and the WLEDcontroller will be displayed in the list.



note:

1. After the WLEDcontroller disconnects from the router, the chip will restart and return to the preset state.
2. If the WLEDcontroller is not displayed or cannot be found in the APP, you can open a browser, enter the IP address of the WLEDcontroller, and use the web interface for control (To find the controller's IP address: Connect to the Wi-Fi, locate the router's or controller's web address (usually found at the bottom of the router or on the controller itself), enter this address in the browser, and then you can view the controller's IP address in the router's backend interface).

LED Strip Configuration

Enter into the WLEDcontrol page and click on the "Config" button in the upper right corner. Then, select "LEDPreferences" and navigate to "Hardware setup" to configure the LEDstrip information.



Relay Configuration



Enter into the WLEDcontrol page, click on the top right corner "Config", select "LED Preferences", then find "Relay GPIO". Configure Relay GPIOas 18, uncheck Invert, and click Save to apply the settings.

note:

1. The relay function is configured by default.
2. When turning off the light via the APP, remote control, or PUSH switch, the power supply to the output terminal will be cut off to save energy. It should be noted that this function cannot deactivate the supplementary power supply.

Mic Configuration

1. Enter into the WLEDcontrol 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. Enter into the WLEDcontrol 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 SDpin: 32
3. 12S WS pin: 15
4. 12S SCK pin: 14



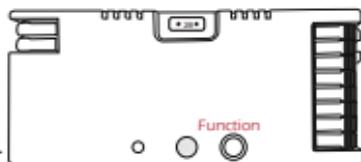
Note:

1. The Mic function is configured by default.
2. After microphone function configured, it will be only activated after rebooting the controller again.

Description of Button Functions

Function:

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



Reset to Factory Settings

1. Button Reset

Longpress the "Function" button for 10 seconds.

2. APP Reset

Enter into the WLEDcontrol 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.



Type-C Download Port

1. Insert the Type-C data cable to start serial port download.
2. After downloading is complete, you can use the controller.



Supported Chips

WS2805, WS2811, WS2811F, WS2812B, WS2814A, WS2815, SK6812, SM16703, SM16703SP3, FL19038, FW1935, UCS2903B, etc.

IO13 interface is for DIY use



- GPIO 13
- Button 0
 - Pushbutton
 - Short press: On/Off
 - Long press 1S: Adjust color
 - Long press 10S: Enter WiFi-AP mode, pop-up hotspot "WLED-AP"
 - Switch → On/Off
 - Button 1
 - Pushbutton
 - Short press: Adjust mode
 - Double-tap: Adjust color in mode
 - Long press: Adjust brightness
 - Switch → On/Off

*Function button is GPIO0

Troubleshooting and Solution

Number	Symptoms	Solution
1	Indicator light is not on	Check whether the input power connection is correct
2	APP shows "offline"	<ol style="list-style-type: none">1. Check if the phone is on the same network as the controller.2. Check if the controller is out of the range of the WIFI connection, causing unstable connection.3. Turn off and on the controller to retry.
3	APP is connected, but the light strip is not controllable	<ol style="list-style-type: none">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.
4	The brightness of the light strip is low, and the front and back colors are significantly different	<ol style="list-style-type: none">1. Check if the power supply is working properly.2. Check if the power supply matches the light strip.3. Check if all connections are good, and use conductive and short wires as much as possible for connection.4. Add power supply at an appropriate position.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. Do not
4. 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.
6. The controller is factory-equipped with a 20A fuse, and a spare 5A fuse is also included for your selection based on actual needs. The fuse's current-carrying capacity test is conducted at 25°C, and its life span decreases as the ambient temperature rises. When the operating current approaches or exceeds the rated value, the temperature will also increase accordingly. It is advisable to choose a fuse with a nominal current rating that is 1.3 to 1.5 times the operating current. For example, if the operating current is 10A, a 15A fuse should be selected.

Disclaimer

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 applications 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.
5. All text, tables, and images in this manual are protected by relevant national laws and may not be used without our permission.
6. This product may be compatible with third-party products, but our company does not take responsibility for compatibility issues or partial loss of functionality caused by changes in third-party products.