GLEDOPTO

Elite 2D-EXMU

Advanced WLED Controller

—User Instruction—

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Wiring Terminal Instructions

Model: GL-C-616WI

Total Output Current: 15A Max

Type-C Input Voltage: 5V

Temperature: -20~45°C

1. WLED controller supports connecting up to two digital LED strips. The output terminals labeled 'V+, GPIO16,GND; V+, GPIO2, GND'

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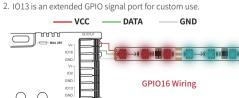
Product Parameter

Input Voltage: DC 5-12-24V

Type-C Input Current: 3A Max

Output Current/Channel: 10A Max

should be connected to the LED strip's 'VCC DATA GND'.



APP Download Method



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 WLFD controller
- 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).

the click"Save & Connect" at the top of the screen to save.



4. Click "WIFI SETTINGS", set the WiFi account and password, and

One of the control of

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

hackend interface)

- note:

 1. After the WLED controller disconnects from the router, the chip will restart
- and return to the preset state (you can find the hotspot "WLED-AP" in your phone's WiFi settings).

 2. If the WLED controller is not displayed or cannot be found in the APP, you can open a browser, enter the IP address of the WLED controller, 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

Enter into the WLED control page, click on 'Config' at the top right corner, select 'WiFi

Ethernet Interface Configuration

'Config' at the top right corner, select 'WiFi Setup', scroll down to the bottom of the screen, find 'Ethernet Type', choose 'Gledopto Series with Ethernet', then click Save & Connect to use the Ethernet interface.

1. The Ethernet function is configured by default.
2. After connecting the controller to the router with an Ethernet cable, you

can use the app to control it without configuring WiFi.

LED Strip Configuration

Enter into 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.



Relay Configuration

Enter into the WLED control pa
the top right corner "Config",

GL-C-616WL

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

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

Mic Configuration

- L. Enter into 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. Enter into 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: 32 3. 12S WS pin: 15 4. 12S SCK pin: 14



rebooting the controller again.

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

Description of Button Functions Funciton:

1. Short press: Power on/off.

- 2. Long press for 1 second: Switch color.
- 3. Long press for 10 seconds: Reset the WLED
- o O O controller and activate the WLED-AP hotspot. **Reset to Factory Settings**

1. Button Reset

Long press the "Function" button for 10 seconds.

2. APP Reset

Enter into 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.

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.

Long press 1S: Adjust color Long press 10S: Enter WiFi-AP mode. pon-up hotenot "WI ED-AP" Button

1013 interface is for DIY use

GPIO 13 Short press: Adjust mode Pushbutton | Double-tap: Adjust color in mode Long press: Adjust brightness Button Switch + On/Off *Function button is GPIO0

Supported Chips

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

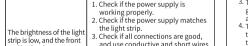
Number Solution

Troubleshooting and Solution

1	Indicator light is not on	Check whether the input power connection is correct
2	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.
3	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.
		Check if the power supply is working properly. Check if the power supply matches.

and back colors are

significantly different



as much as possible for connection

Add power supply at an appropriate

5. Check if the APP has set a limit on

brightness or current.

- 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
- 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 lifespan 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.

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- 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
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GL-C-I-616WL