



GLEDOPTO

Elite 6D-EXMU Advanced WLED Controller —User Instruction—

GL-C-619WL

Product Parameter

Model: GL-C-619WL

Total Output Current: 15A Max

Type-C Input Voltage: 5V

Temperature: -20~45°C

Input Voltage: DC 5-12-24-36-48V

Input Current: 15A Max

Type-C Input Current: 3A Max

Recommended 1600 ICs Max



Wiring Instructions

Controller

V+

IO16, IO14, IO13
IO12, IO4, IO2

GND

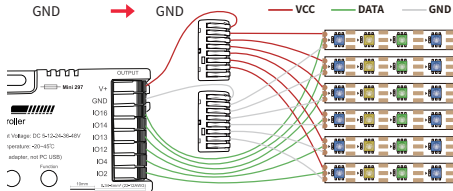
Strip

VCC

DATA

GND

Supports up to **6** channels of digital LED strip output.

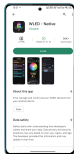


APP Download Method



IOS

Search for and download **WLED** in the App Store.



Android

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

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 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.



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 backend interface).

Ethernet Interface Configuration



Click on "Config"

Select "WiFi Setup"

Find "Ethernet Type"
Choose "Gledopto"

Note:

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



Click on "Config"

Select "LED Preferences"

Find "Hardware setup"
to configure information

Relay Configuration



Click on "Config"

Select "LED Preferences"

Find "Relay GPIO"
Configure Relay GPIO as 18
Check "Invert"

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

Configuration Information:

1. Type: Generic PDM
2. Pin I2S SD: 32
3. Pin I2S WS: 15

Note:

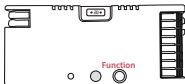
1. The Mic function is configured by default.
2. After microphone function configured, it will be only activated after rebooting the controller again.



Description of Button Functions

Funciton(GPIO17):

1. Short press: Power on/off.
2. Long press for 1 second: Switch color.
3. Long press for 10 seconds: Reset the WLED 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.



Firmware update method

① Type-C UART

(https://gledopto.com/wled_flash.html)

② Gledopto official firmware

(<https://github.com/GLEDOPTO/WLED/releases>)



②

Note:

This controller uses custom firmware, pre-configured with multiple functions for plug-and-play use. Currently, the WLED firmware does not have Gledopto Ethernet integrated (this will need to wait until version 0.15.4). It is recommended to use these two methods to update the firmware.

Supported Chips

WS2811, WS2811F, WS2812B, WS2814A, WS2815, SK6812, SM16703, SM16703SP3, FL19038, FW1035, UCS2903B, etc.

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. 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	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	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.
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.
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.

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 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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