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

Model:GL_C_014WI Input Voltage:DC5-24V Output Current/Channel:10A Max Total Output Current:15A Max Temperature:-20~45°C WirelessCommunication:WiFi Dimensions:108x45x18mm



Wiring Terminal Instructions

The WLED controller can support a total of three output channels.The output terminal connections"GD 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-015WL Input Voltage:DC5-24V Output Current/Channel:10A Max Total Output Current:15A Max Temperature:-20~45℃ WirelessCommunication:WiFi Dimensions:108x45x18mm



Wiring Terminal Instructions

The WLED controller can support a total of three output channels The output terminal connections"GD 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:DC5-24V Output Current/Channel:10A Max Total Output Current: 15A Max Temperature:-20~45℃ WirelessCommunication:WiFi Dimensions:108x45x18mm



GL-C-015WL-M

Wiring Terminal Instructions

The WLED controller can support a total of three output channels. The output terminal connections"GD 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.



APP Download Method

within the app.

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

APP Configuration Steps

1.Power on the WLED controller. 2.Open the phone settingsand en settings.find"WLED-AP" and co with the password "wled1234"

3. After successful connection.it will elceme to WLED 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.

. IOS : "App Store" Search and download WLED or WLED Native



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automatically jump to the WLED page (or enter the website 4.3.2.1 in the browser



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 "DISCOVERLIGHTS ... " (See figure 5-3). When the button below displays "Found WLED!".it means that the WLED controller hasbeen found (See figure 5-4).Click the checkmark in the upper right corner to return to the main page. The found WLED controlle 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



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 thisfunction, everytimethelight isturned on or off, the powerto theoutput terminal will be simultaneously turned on or off electricity. It is important to note that this function cannot turn off 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 iscomplete,and then power off th controller.

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:

to save

thepower

 1.Microphone type:Generic 12S
 2. 12S SD pin: 26

 3. 12S WS pin: 5
 4. 12S SCK pin: 21



Note:After configuring themicrophoneparameters, you need to power offand on thecontrolleronceto usethemicrophonefunction.

e 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 needsto be restarted after configuring the microphone. OPT button:

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

Reset to Factory Settings

B

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. Click "Save" to reset the controller.



UART Download (if this function is available)

 1.Open the controller case.
 (used to connect the motherboard power)

 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.



Number Symptoms 1 Indicator light is not on 2 APP shows "offline" 3. 3. 4 APP is connected, but 3. 3.	Troubleshooting				
1 Indicator light is not on 2 APP shows "offline" 3. 4 4 4 5 4 5 6 6 6 7 7 8 10 11 12 13 14 15 16 17 18 19 10 10 11 12 13					
2 APP shows "offline" 3. APP is connected, but 3.					
APP is connected, but 3.	C C C C T				
3 the light strip is not controllable 5. 6.	C V C I C I C C Z C Z				
4 The brightness of the light strip is low, and the front and back colors are significantly different 5	•				

g and Solution

Solution

Check whether the input power connection is correct

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.

Check if the power supply is working properly.

working properly. Check if the power supply voltage matches the light strip.

Check if the input power connection is correct.

Check if the light strip connection is correct.

Check if the GPIO settings in the APP are correct.

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 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.



- 1. Before turning on the power, please ensure that all connections are correct and secure, and do not operate while the power ison.
- 2. Theproduct should beused under therated voltage.Using it under excessive or insuffi cient voltage may cause damage.
- 3. Do not disassemble the product, asit may cause fire and electric shock.
- Do not usetheproduct in environmentsexposed to direct sunlight, moisture, high temperatures, etc.
- 5. Do not usetheproduct in metalshielded areasor around strong magnetic fields,asthismay severely affect the wirelesssignal transmission of the product.

Disclaimers

- 1. Our company will update the content of this manual based improvement of product functionality. The updates will be displayed in the latest version of this manual, without further notice.
- 2. Dueto our continuousadoption ofnew technologies, product specifications maychangewithout further notice.
- Thismanual isprovided for referenceand guidanceonly and doesnot guaranteecompleteconsistency with theactual product. Theactual application should bebased on theactualproduct.
- The components and accessories described in this manual do not represent the standard configuration of the product. The specific configuration is subject to the pack aging.
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- 6. Thisproduct may becompatible with third-party products(such asapps,hubs, etc.), but our company doesnot takeresponsibility for compatibility issues or partial lossoffunctionality caused by changes in third-party products.

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