

SP108E WIFI LED Controller Operating Instructions

1. Features:

1. Long distance APP remote control via WIFI;
2. Support routing mode(AP) and LAN connection mode(STA);
3. Support almost every kind of one-wire or two-wire LED driver IC ;
4. Brightness adjustable, With 180 kinds of patterns and 8 kind of color adjustable patterns;
5. Creatively using **from-image-to-effect** method for user to DIY any effect;
6. Support setting pixel number and segments number, able to control up to 2048 pixels;
7. User setting saving;



2. App control:

Both IOS version and Android OS version are available. (hardware should support WIFI)

- Requires IOS version 10.0 or later;
- Requires Android OS version 4.4 or later;
- Search”LedShop”in App Store or Google play or scan this QR code to download and install the App:



3. Specifications:

Working temperature : -20℃~60℃;

Working Voltage : DC5V~24V; (The controller cannot regulate the output voltage at the VCC. That means the output voltage of your power supply must be the same as the work voltage of your led lights. If your lights need 5V input, please use a 5V power supply, never use 12V or 24V power supply.)

Working Current : 20mA~130mA;

Remote distance : 30 Meters;

Product size : 85mm*45mm*22mm;

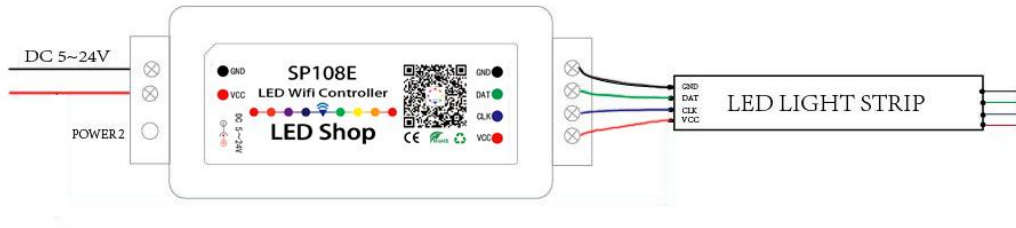
Product weight : 40g ;

Certificates : CE, RoHS;

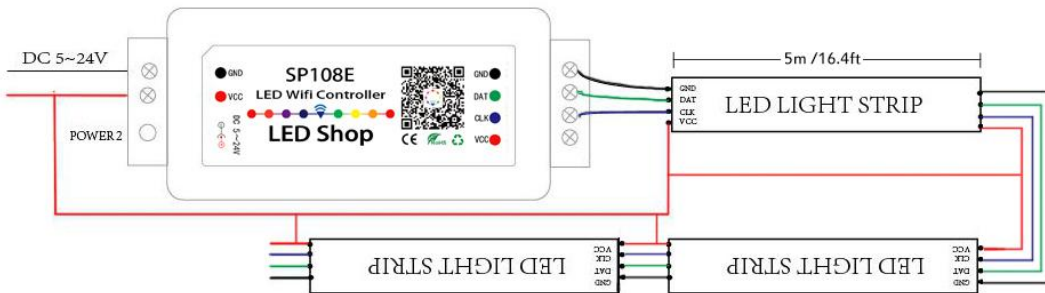
4. Wire Connection:

- **Connect one LED strip less than 5m**

If the voltage drop much, please inject power on both ends of the LED strip.



● **Connect multiple LED strip together**



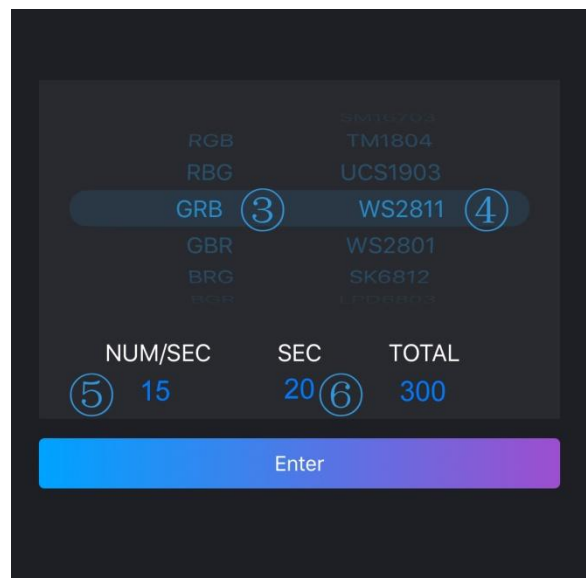
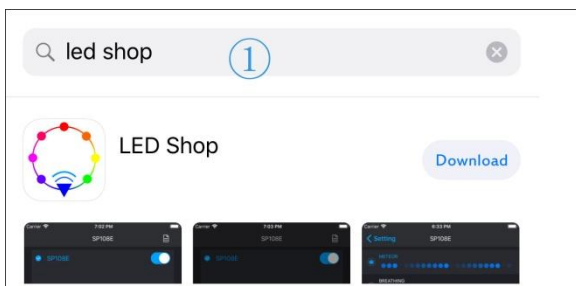
Kindly note:

- If your LED lights' IC type is WS2812B, WS2811,SK6812,SK6812-RGBW, which has **data** wire, but no **clock** wires, the CLK port is useless for them. Just connect the data wire to DAT port.
- If your LED lights' IC type is WS2801, APA102,SK9822, which has both **data** and **clock** wires, please connect the as the picture showed.
- If your LED lights' IC type is WS2813 or WS2815, which has two **data** wires, but no **clock** wires, please connect data wire to DAT port, backup data wire to GND port.

5. Working Mode and Connecting:

● **AP(Access Point) mode:**

Controller and Phone connect directly, controller works as an access point.



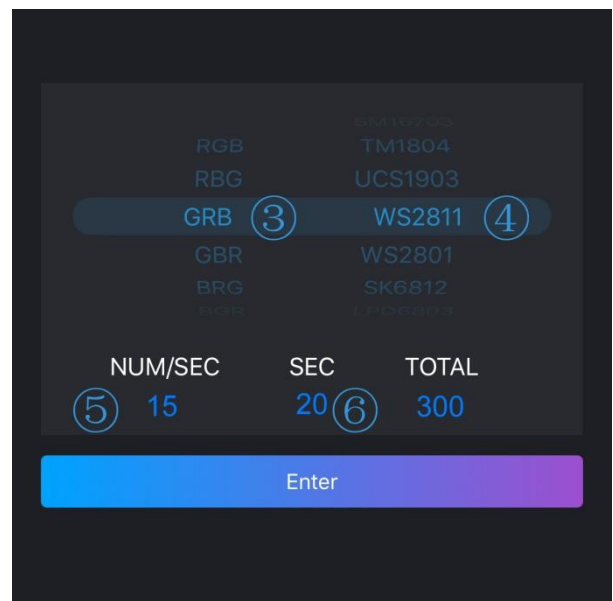
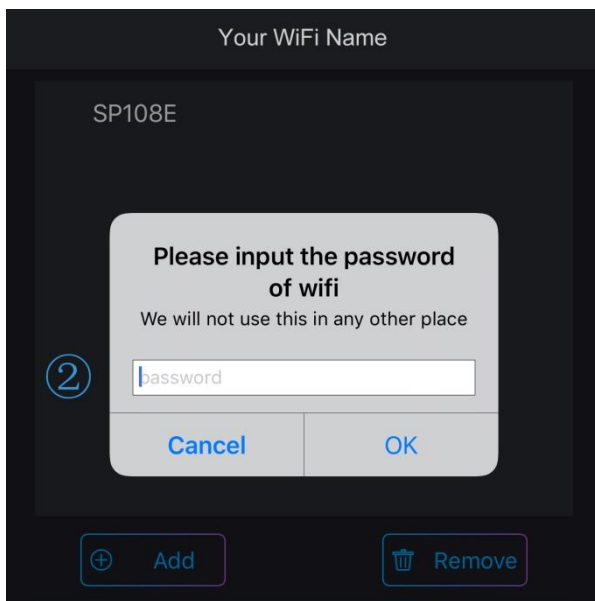
Connect steps:

- ① When the device is not connected to any WIFI network, power on the controller and wait for 20s and then controller will switch into **AP** mode ; Search "LED Shop" in app store or scan the QR code on the box. Install the app on your smartphone or Tablet.
- ② In the WIFI setting page,find and connect the controller(named like **SP108E_xxx**, the default pin code is 12345678), Open the LED Shop App ,then the controller will be showed on the device list;
- ③ Set R/G/B sequence, make it synchronizes with your lamp.
- ④ Choose the IC type, make it same with your lamp. If your light is ALITOVE WS2812b WS2813 WS2815, please choose WS2811.
- ⑤ Set pixels number of each section.
- ⑥ Set number of sections. The total pixels should be not more than 2048.

● **LAN connection mode:**

Controller and phone are in one same WIFI network, in this network, users can operate the controller smoothly.

It can only support 2.4Ghz WIFI, cannot support 5Ghz WIFI when it is used at STA mode (LAN connection mode)



Connect steps:

- ① Connect your phone to your wifi network, open LED Shop APP,
- ② When the controller is not connected to any WIFI network, power on the controller, controller will be remain in **LAN connection mode** for 20 seconds; **Within the 20 seconds**, press the **Add** button, input the WIFI pin code, press the **OK** button to confirm. Then wait for the configure processing finished; When controller successfully enter the WIFI network, it will be showed on the device list.
- ③ Set R/G/B sequence, make it synchronizes with your lamp.
- ④ Choose the IC type, make it same with your lamp. If your light is ALITOVE WS2812b WS2813 WS2815, please choose WS2811.

- ⑤ Set pixels number of each section.
- ⑥ Set number of sections. The total pixels should be not more than 2048.

Two key points you must pay attention to:

- 1) When connect to wifi network, the distance between the controller and the wifi router should be within three meters.
- 2) Once the controller is powered, please input wifi pin code within the 20 seconds.

6. Kindly Note:

- 1) It can support WS2812B and WS2813 but there is no option on the setting page. Please choose WS2811 when connect it to WS2812B and WS2813.
- 2) When connect WS2813 or WS2815 LED strip which has two data wires to this controller, please connect backup(BI) wire to GND port.
- 3) The controller only supports LED lights with smart IC. It cannot support ordinary RGB/RGBW LED strip without IC.
- 4) Please use a power supply not a battery to power the controller. The output power of power supply must be more than the max power of led light. For example, if the work voltage and max amp of your led light is 5V 10A 50W, power supply output must be 5V 10A 50W at least. Otherwise, it will work smoothly.
- 5) The controller cannot regulate the output voltage at the VCC. That means the output voltage of your power supply must be the same as the work voltage of your led lights. If your lights need 5V input, please use a 5V power supply, never use 12V or 24V power supply.
- 6) It can only support 2.4Ghz WIFI, cannot support 5Ghz WIFI when it is used at STA mode (LAN connection mode)
- 7) Requires IOS version 10.0 or later, Android OS version 4.4 or later.

7. What can you do if you can't make it work?

- 1) Please check your smart phone and led lights and confirm whether they can support the controller. Your smart Phone should be IOS 10.0 or Android 4.4 or later version and support WiFi
- 2) Please check output voltage and amp of your power supply and confirm whether it matchs controller and led lights. If your led light is 5V, please use 5V power supply. Never use 12V or 24V power. Otherwise, the led lights will be damaged.
- 3) If the power supply, controller and led lights can be compatible with each other well, please connect them and set up again following the connection and setting instructions above.
- 4) Please set enough total pixels number, correct RGB sequence and IC type. Otherwise they cannot work smoothly.
- 5) If you need more help, please contact ALITOVE directly. We will solve the issue in 12 hours.

8. How to contact us?

- **Customer Service Email:** alitove-lighting@hotmail.com info@alitove.net
- **ALITOVE shop on Amazon:** www.amazon.com/shops/alitove
- **ALITOVE official website:** www.alitove.net
- **Scan these QR codes, you can:**



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Ask a question



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