

SP113E 使用说明书

3CH PWM RGB RF LED控制器



一、简介：

SP113E是一款3路PWM RGB类型的LED控制器，标配 RE3 2.4G遥控器。内置丰富多样的RGB彩色动态灯效，具备1600万全彩调色范围。同时，采用16KHz PWM高频调光技术，确保灯光的平滑、均匀与稳定。

二、产品特点：



3路PWM RGB控制

独立控制RGB三色，内置多种动态灯效



16KHz PWM

16KHz PWM 高频平滑调光，有效避免闪烁，保障灯光的舒适性和稳定性



2.4G RF 遥控

2.4G RF 遥控，距离控制可达30米，方便快捷地设置灯光



遥控器颜色校正

通过遥控器可以快速进行颜色校正，确保遥控器颜色键的功能与实际灯光的颜色一致



1600万全彩调色

1600万全彩调色，具有丰富的色彩选择，设有常用颜色区域，实现快速准确调色



循环播放

所有灯光效果可循环播放，增添环境氛围



定时关灯

支持 30 分钟、60 分钟、90 分钟定时关灯



掉电记忆

掉电记忆，能够记住上次使用的设置，下次开启无需重新设置

三、2.4G遥控器：

与SP113E匹配的2.4G RF 遥控器 RE3：

- 支持一对多控制，一个遥控器可以控制多个控制器；
- 支持多对一控制，每个控制器可以绑定最多5个遥控器。

短按 **ON** : 开灯

长按: 控制器上电20秒内,
长按 **ON** 键绑定/解绑遥控。

若遥控器未绑定则进行绑定，白光呼吸3次

若遥控器已绑定则进行解绑，白光呼吸1次

若绑定的遥控器超过最大个数(5个)，

则绑定不成功，灯光无反应

短按 **OFF** : 关灯

长按: 控制器上电20秒内,
先完全关闭灯光，再长
按 **OFF** 键来清除所有已
绑定的遥控器。

解绑所有遥控器，白光呼吸1次



注意：

- 确保根据极性 (+ 和 -) 正确安装电池；
- 长时间未使用的设备中的电池应取出，根据当地法规回收或处理；
- 始终完全固定电池盒。如果电池盒无法牢固关闭，请停止使用产品，取出电池，并将其远离儿童。

四、颜色校正：

- 由于灯具存在差异，若遥控面板的颜色按键与实际灯具没有对应，此时可通过调节通道顺序来进行颜色校正；
- 修改成功后白光呼吸一次，失败则无标志。



五、技术参数：

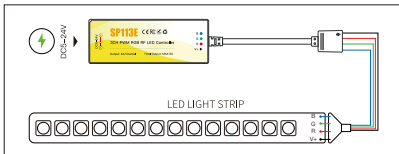
● 控制器参数

工作电压：	DC5V~24V	工作电流：	6mA~12mA
PWM单路最大输出电流：	2A	整机最大输出电流：	6A
工作温度：	-10℃~60℃	控制器尺寸：	56mm*21mm*12mm(不含线材)

● 遥控器参数

工作电压：	3V(CR2025)	静态电流：	4uA
传输频率：	2.4G	遥控距离：	30M(空旷场地)
遥控器尺寸：	103mm*45mm*8.5mm		

六、接线方式：



SP113E Instructions

3CH PWM RGB RF LED Controller



1. Brief:

SP113E 3CH PWM RGB LED Controller, with RE3 2.4G remote control. Built-in rich and diverse RGB color dynamic light effects, with 16 million color range. Utilizes 16KHz PWM high-frequency dimming technology to ensure smooth, even, and stable lighting.

2. Features:



3CH PWM RGB Control

Independent control of RGB three colors, built-in a variety of dynamic light effects.



16KHz PWM

Utilizes 16KHz PWM high-frequency dimming technology to ensure smooth, even, and stable lighting.



2.4G RF Remote Control

Distance control up to 30 meters for quick and easy light setting.



Color Correction

The remote control allows for quick color correction, ensuring that the function of the remote control's color keys matches the actual color of the light.



16 Million Colors

16 million full-color color mixing, with a wealth of color options, with commonly used color gamut, to achieve rapid color mixing.



Collected Effect Cycle

All lighting effects can be looped for added ambience.



Timed Lights Off

Support 30 minutes, 60 minutes, 90 minutes timer to turn off the light.



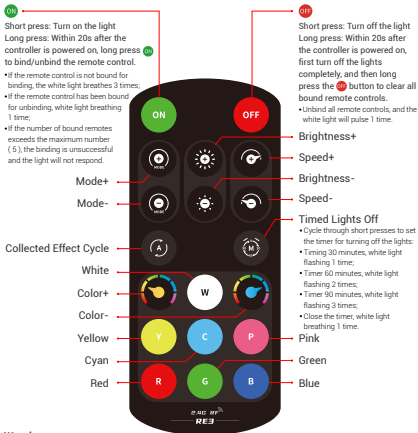
Power-down Memory

Remember your last settings so you don't have to reset them the next time you use it.

3. Work With 2.4G Remote Control:

The 2.4G remote control model (RE3) compatible with SP113E:

- Support one-to-many control, one remote control can control multiple controllers;
- Support many-to-one control, each controller can bind up to 5 remote controls.

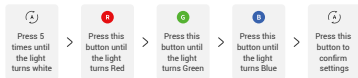


Warning:

- Ensure the batteries are installed correctly according to polarity (+ and -);
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations;
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

4.Color Correction:

- Due to the differences in the LED fixtures, if the color buttons on the remote control panel do not correspond to the actual fixtures, then the color correction can be made by adjusting the channel sequence;
- The white light breathes once when the modification is successful, and there is no sign if it fails.



5.Technical Parameters:

• Controller Parameters

Working Voltage:	DC5V~24V	Working Current:	6mA~12mA
PWM Single Channel Maximun Output Current:	2A	PWM Total Maximun Output Current:	6A
Working Temp:	-10°C~60°C	Dimension:	56mm*21mm*12mm (Not including the wires)

• Remote Control Parameters

Working Voltage:	3V(CR2025)	Static Current:	4uA
Transport:	2.4G	Remote Distance:	30M (Open space)
Dimension:	103mm*45mm*8.5mm		

6.Wiring:

