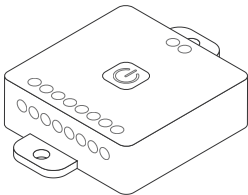


# SP630E使用说明书



























SPI+5路PWM All In One LED控制器



## 一、简介：

SP630E是一款可控制多种类型灯具的LED控制器 (All in one)，可控制单通道、双通道、三通道、四通道、五通道的七彩和幻彩灯具；还可控制混合型灯具 (PWM+ SPI)。

序号	参数设置			灯具类型
	RGB	CW	WW	
1				1CH PWM Single Color
2				2CH PWM CCT
3				3CH PWM RGB
4				4CH PWM RGBW
5				5CH PWM RGB CCT
6				SPI Single Color
7				SPI CCT
8				SPI RGB
9				SPI RGBW
10				SPI RGB CCT
11				SPI RGB+1CH PWM Single Color
12				SPI RGB+2CH PWM CCT

注：在APP设置页面中修改灯具类型切换控制的灯具类型

## 二、功能特点：

- 1、高性能，低功耗2.4G蓝牙主控；
- 2、支持控制多达12种类型灯具；
- 3、支持手机APP、2.4G触控遥控器和2.4G触控86盒等多种控制方式；
- 4、遥控器和86盒可设置分区控制(可分为4区)，也可统一控制(ALL)；
- 5、支持设置多种开关机动态效果和默认开机状态；
- 6、支持修改设备名称，颜色校正和添加多个定时器；
- 7、支持多种音乐采集模式：手机麦克风，播放器串流，板载麦克风；
- 8、APP 5大控制页面：动态页面，静态页面，音乐页面，自定义页面和设置页面；选择不同类型的灯具则对应不同的控制页面内容，具体如下：

灯效 灯具类型		页面内容	动态页面		静态页面		音乐页面		自定义
			彩色效果	白色效果	彩色	白色	彩色效果	白色效果	模式
1	1CH PWM Single Color	无	3种	无	调光	无	1种	无	
2	2CH PWM CCT	无	3种	无	色温	无	1种	无	
3	3CH PWM RGB	12种	无	调色	无	3种	无	3种	
4	4CH PWM RGBW	12种	3种	调色	调光	3种	1种	3种	
5	5CH PWM RGCCT	12种	3种	调色	色温	3种	1种	3种	
6	SPI Single Color	无	10种	无	调光	无	5种	无	
7	SPI CCT	无	10种	无	色温	无	5种	无	
8	SPI RGB	146种	无	调色	无	18种	无	18种	
9	SPI RGBW	146种	10种	调色	调光	18种	5种	18种	
10	SPI RGCCT	146种	10种	调色	色温	18种	5种	18种	
11	SPI RGB+1CH PWM Single Color	146种	3种	调色	调光	18种	1种	18种	
12	SPI RGB+2CH PWM CCT	146种	3种	调色	色温	18种	1种	18种	


### 三、手机APP：



1. 本控制器支持由手机APP进行控制,支持IOS和安卓系统;
2. 苹果设备需要IOS10.0或更高版本,安卓设备需要Android 4.4或者高版本;
3. 可在App Store、Google Play搜索“BanlanX”找到APP,或者扫描二维码下载安装。

#### APP操作引导

- 打开App点击首页右上角的 + 添加设备;
- 首次添加设备时,请根据页面提示设置灯具类型和校准通道颜色;  
(非首次添加设备则点击右上角的 ⚙️ 进入设置界面进行设置)

- 点击操作页面右上角的  可进入设置界面,在此界面可以修改名称,修改灯具类型,校准颜色,设置定时,设置开关机效果;还可在更多设置中设置开机状态和选择彩光与白光共存等;请根据实际使用情况进行设置。

## 四、2.4G触控遥控：

本控制器支持2.4G触控遥控器和2.4G触控86盒进行控制;4种遥控器,4种86盒;不同的灯具类型匹配的遥控器与86盒型号不同,具体说明如下:

1CH PWM Single Color	2CH PWM CCT	3CH PWM RGB	4CH PWM RGBW	5CH PWM RGB CCT	SPI Single Color
					
SPI CCT	SPI RGB	SPI RGBW	SPI RGB CCT	SPI RGB +1CH PWM	SPI RGB +2CH PWM CCT
					

### 遥控器型号



RB1



RB2



RB3



RB4

## 86盒型号



RC1



RC2



RC3



RC4

## 按钮功能说明

开灯	关灯	亮度切换	暖白/自然白/冷白	白光	色环色温切换
速度	模式+	模式-	音乐模式	1-4分区	所有区域

- 注:1.上电后20s内,长按ON键:绑定/解绑遥控;指示反馈:绑定:灯具快闪3次,解绑:灯具慢闪1次;  
2.上电后20s内,长按Zone1-Zone4-ZoneAll,设置分区;指示反馈:灯具快闪对应分区次数,如设置为Zone2,则闪2次。

## 五、技术参数:

### 控制器参数

工作电压:DC5V~24V	工作电流:3mA~13mA
PWM单路最大输出电流:6A	整机最大输出电流:12A
工作温度:-20℃~60℃	控制器尺寸:78mm*56mm*20mm

## 2.4G遥控(遥控器和86盒)参数

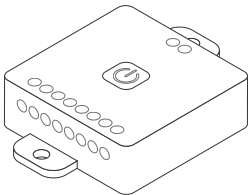
工作电压:3V(CR2032)	静态电流:26uA
传输频率:2.4G Hz	遥控距离:30M
遥控器尺寸:135mm*48mm*10mm	86盒尺寸:86mm*86mm*12mm

## 六、接线端口:

灯具类型不同对应的输出端口不同;接线端口应与所选择的灯具类型相匹配,具体接线端口说明如下:

灯具类型		接线端口							
		VCC	R	G	B	CW	WW	DAT	GND
1	1CH PWM Single Color	✓				✓	✓		
2	2CH PWM CCT	✓				✓	✓		
3	3CH PWM RGB	✓	✓	✓	✓				
4	4CH PWM RGBW	✓	✓	✓	✓	✓			
5	5CH PWM RGBCCT	✓	✓	✓	✓	✓	✓		
6	SPI Single Color	✓						✓	✓
7	SPI CCT	✓						✓	✓
8	SPI RGB	✓						✓	✓
9	SPI RGBW	✓						✓	✓
10	SPI RGBCCT	✓						✓	✓
11	SPI RGB+1CH PWM Single Color	✓				✓	✓	✓	✓
12	SPI RGB+2CH PWM CCT	✓				✓	✓	✓	✓

# SP630E Instructions







































SPI+5CH PWM All In One LED Controller



## 1. Brief:

SP630E is compatible with multiple types of LEDs. It can work with 1/2/3/4/5CH W/CCT/RGB/RGBW/RGBCCT PWM and addressable LEDs, and it can also work with addressable+PWM combined LEDs:

NO.	Parameters			LED Type
	RGB	CW	WW	
1				1CH PWM Single Color
2				2CH PWM CCT
3				3CH PWM RGB
4				4CH PWM RGBW
5				5CH PWM RGB CCT
6				SPI Single Color
7				SPI CCT
8				SPI RGB
9				SPI RGBW
10				SPI RGB CCT
11				SPI RGB+1CH PWM Single Color
12				SPI RGB+2CH PWM CCT

note: user can select the specific LED type on the App setting page

## 2.Features:

1. High performance, low power consumption 2.4G Bluetooth microprocessor;
2. Compatible with 12 kinds of type of LEDs;
3. Support App control, 2.4G touch remote control and 2.4G touch 86-type control panel;
4. The remote control and 86-type control panel can be set up for zone-control (can be divided into 4 zones), or unified control (ALL);
5. Support to set kinds of on/off animations and the default power-on state.
6. Support for modifying device name, color order correction and setting timers.
7. Support 3 kinds of music capture modes: cell phone microphone, player streaming, on-board microphone.
8. 5 major control pages in the App: dynamic, static, music, custom and setting; select different types of LED correspond to different App page content, as follows:



APP Pages Functions LED Types		Dynamic		Static		Music		Custom
		Colorful	White	Colorful	White	Colorful	White	DIY
1	1CH PWM Single Color	None	3	None	DIM	None	1	None
2	2CH PWM CCT	None	3	None	CCT	None	1	None
3	3CH PWM RGB	12	None	HUE	None	3	None	3
4	4CH PWM RGBW	12	3	HUE	DIM	3	1	3
5	5CH PWM RGCCT	12	3	HUE	CCT	3	1	3
6	SPI Single Color	None	10	None	DIM	None	5	None
7	SPI CCT	None	10	None	CCT	无	5	None
8	SPI RGB	146	None	HUE	None	18	None	18
9	SPI RGBW	146	10	HUE	DIM	18	5	18
10	SPI RGCCT	146	10	HUE	CCT	18	5	18
11	SPI RGB+1CH PWM Single Color	146	3	HUE	DIM	18	1	18
12	SPI RGB+2CH PWM CCT	146	3	HUE	CCT	18	1	18


### 3.APP:



- 1.SP630E supports App control for iOS and Android devices.
- 2.Apple devices require iOS 10.0 or higher, and Android devices require Android 4.4 or higher.
- 3.You can search "BanlanX" in App Store or Google Play to find the APP, or scan the QR code to download and install.


#### Operations

- Open the App, click the + icon in the top right corner of the home page to add device .
- Please set the LED type and calibrate the color order according to the page prompts, you can also change these settings on the settings page.

- Click the  icon in the upper right corner of the App to enter the settings page, where you can modify the name, modify the type of LED, calibrate the color order, set the timings, set the on/off effect, etc.

## 4. 2.4G Touch Remote Control :

SP630E can be used with 2.4G touch remote control and 2.4G touch 86-type panel; There are 4 kinds of remote control, 4 kinds of 86-type panel; different type of LED match different remote and panel models:

1CH PWM Single Color	2CH PWM CCT	3CH PWM RGB	4CH PWM RGBW	5CH PWM RGCCT	SPI Single Color
					
SPI CCT	SPI RGB	SPI RGBW	SPI RGCCT	SPI RGB +1CH PWM	SPI RGB +2CH PWM CCT
					

### Remote Models



RB1



RB2



RB3



RB4

## 86-Type Panel Models



RC1



RC2



RC3



RC4

## Touch Functions

ON	OFF	Brightness Level	Warm/Nature/ Cold White	White	Color HUE/ Temperature
Brightness	Brightness	Brightness Ring	Temperature Ring	Color HUE Ring	Color HUE/ Temperature Ring
Speed	Mode+	Mode-	Music effect	1-4 Zones	All Zones

Note: 1.Within 20s after power on, long press the ON key: binding/unbinding the remote/panel;  
2.Within 20s after power on, long press Zone1-4/ZoneAll, to set the Zones;

## 5.Technical Parameters:

### SP630E

Working Voltage: DC5V-24V	Working Current:3mA-13mA
PWM Single Channel Maximun Output Current: 6A	PWM Total Maximun Output Current : 12A
Working Temp: -20°C~60°C	DIMensions: 78mm*56mm*20mm

## 2.4G Remote/Panel

Working Voltage:3V(CR2032)	Quiescent Current: 26uA
RF frequency: 2.4GHz	Remote Range:30M
Remote Dimensions: 135mm*48mm*10mm	Panel Dimensions:86mm*86mm*12mm

## 6.Wiring:

Different types of LED correspond to different output ports; The ports should match the selected LED type, and the specific port descriptions as follows:

LED Type		Output Port							
		VCC	R	G	B	CW	WW	DAT	GND
1	1CH PWM Single Color	✓				✓	✓		
2	2CH PWM CCT	✓				✓	✓		
3	3CH PWM RGB	✓	✓	✓	✓				
4	4CH PWM RGBW	✓	✓	✓	✓	✓			
5	5CH PWM RGBCCT	✓	✓	✓	✓	✓	✓		
6	SPI Single Color	✓						✓	✓
7	SPI CCT	✓						✓	✓
8	SPI RGB	✓						✓	✓
9	SPI RGBW	✓						✓	✓
10	SPI RGBCCT	✓						✓	✓
11	SPI RGB+1CH PWM Single Color	✓				✓	✓	✓	✓
12	SPI RGB+2CH PWM CCT	✓				✓	✓	✓	✓