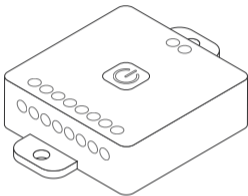


SP630E Instructions







































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 Ring |
| | | | | | |
| 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: 35uA |
| 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 RGCCT | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| 6 | SPI Single Color | ✓ | | | | | | ✓ | ✓ |
| 7 | SPI CCT | ✓ | | | | | | ✓ | ✓ |
| 8 | SPI RGB | ✓ | | | | | | ✓ | ✓ |
| 9 | SPI RGBW | ✓ | | | | | | ✓ | ✓ |
| 10 | SPI RGCCT | ✓ | | | | | | ✓ | ✓ |
| 11 | SPI RGB+1CH PWM Single Color | ✓ | | | | ✓ | ✓ | ✓ | ✓ |
| 12 | SPI RGB+2CH PWM CCT | ✓ | | | | ✓ | ✓ | ✓ | ✓ |

7.FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to

provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.