

DIGITAL RGBCCT CONTROLLER WITH REMOTE/APP CONTROL

DESCRIPTION:

The Digital RGBCCT Controller with Remote/App Control is a state-of-the-art IoT LED controller that is designed to provide maximum versatility and user convenience. It features dual-mode connectivity options, including 2.4GHz WiFi and Bluetooth LE 5.0, allowing seamless control through Bluetooth, WiFi, local networks, cloud services, and RF remote. This controller easily integrates with popular smart home platforms such as Alexa, Google Home, Xiao Ai, and Xiao Du, enabling effortless voice control. This controller offers unmatched flexibility, allowing you to personalize and enhance your lighting experience like never before.



FEATURES:

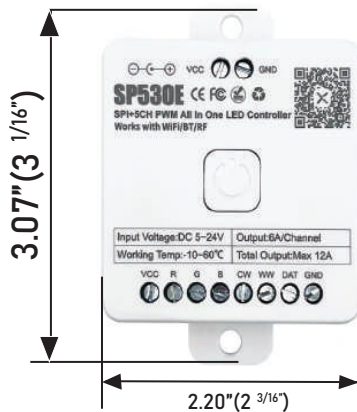
- App, voice command, and 2.4G RF remote control options.
- Multi-segment LED strip and Matrix LED music spectrum effects.
- Power on/off dynamics, timers, playful triggers, and default power-on status
- Flexible size, wiring layout, and parameter settings for unique music spectrum effects.
- Phone microphone, player streaming, and onboard microphone support.
- Compatible with up to 12 different LED types
- Configurable segments with diverse music effects, pixel counts, and frequency range mapping.



APPLICATION:

- Bluetooth Connectivity
- IOS/Android App Control
- RGB Smart Lights Control
- Music Sync
- Bluetooth Music Controller for LED Strips

DIMENSION:



TECHNICAL SPECIFICATIONS:

SP530E

Working Voltage: 5V-24V	Working Current: 20mA-85mA
PWM Single/C Maximum Output Current: 6A	Total Maximum Output Current: 12A
Working Temp: 14 °F- 140 °F	Dimensions: 3.07 x 2.02 x 0.78inches
4G REMOTE/PANEL	
RF Frequency: 2.4GHz	Quiescent: 36uA
Remote Dimension: 5.31 x 1.88 x 0.39inches	Panel Dimension: 3.38 x 3.38 x 0.47inches
Remote Range: 98ft	Working Voltage: 3V(CR2032)

TOUCH FUNCTIONS WITH IMAGE:

Digital RGBCCT Controller 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-types panel; difference types of LED match different remote and panel models:

1CH PWM Single Color	2CH PWM CCT	3CH PWM CCT	4CH PWM RGBW	5CH PWM RGBCCT	SPI Single Color
RB1 RC1	RB2 RC2	RB3 RC3	RB3 RC3	RB4 RC4	RB1 RC1
SPI CCT	SPI RGB	SPI RGBW	SPI RGBCCT	SPI RGB +1CH PWM	SPI RGB +2CH PWM CCT
RB2 RC2	RB3 RC3	RB3 RC3	RB4 RC4	RB3 RC3	RB4 RC4

Remote Models:



86-Types panel Model:



SMART SPEAKER CONTROL :

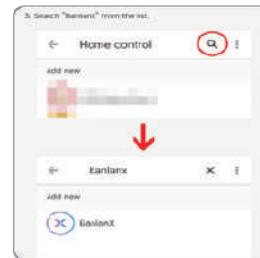
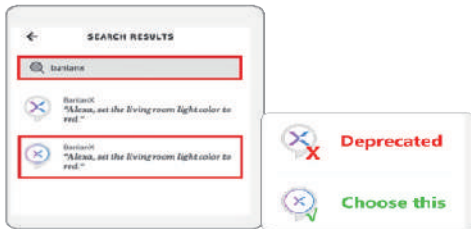


Integrated with smart speaker platforms like Alexa, Google Home, enabling voice commands for light switches, brightness, and color control.

The specific connection method can be viewed in the BanlanX App for details

(1) Suppose Amazon Alexa Control Search "banlanX" Skills page. Make sure you choose the right skills.

(2) Suppose Google Home Control Search "BanlanX" on Google Home App's device list.



INDICATOR LIGHT STATUS EXPLANATION:

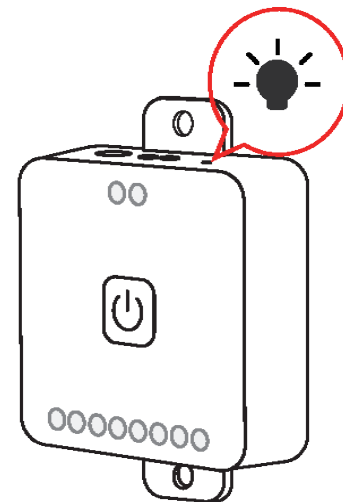
Solid blue: The device is offline and in direct connection mode. It can be connected via Bluetooth or AP mode (initial AP connection password: 12345678)

Flashing blue: The device is receiving signals from a 2.4G remote controller. The light flashes in sync with the signal frequency

Solid Green: The device is online and connected to a network. It supports Bluetooth, WiFi, and remote connections, automatically selecting the best connection method. This mode is recommended for remote connections.

Flashing Green: The device is attempting to connect to a network

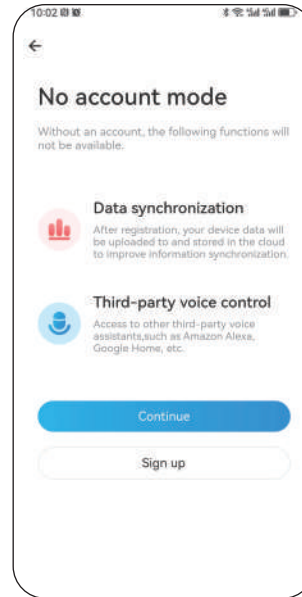
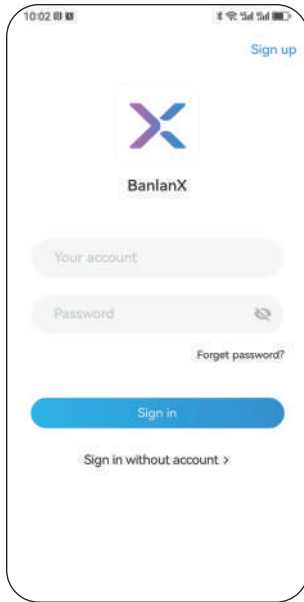
Switching Connection Modes: To toggle between solid blue and solid green modes, long press the power switch button on the device.



APP OPERATION INSTRUCTIONS

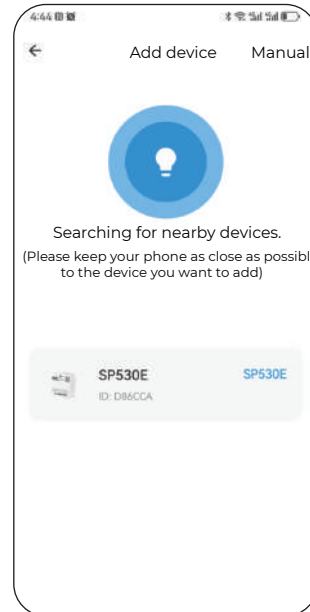
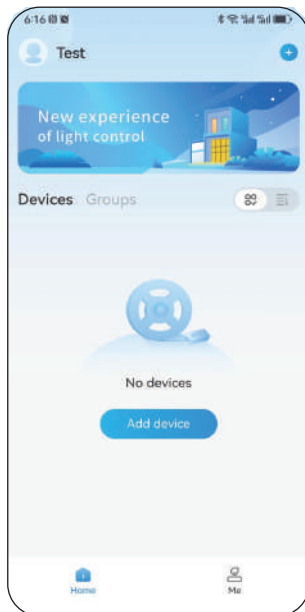
LOGIN:

- Register and Login: Click the "Register" button to create an account and fill in the required information. After successful registration, use the created account to log in.
- Login Without Registration notice: Choose to log in without registration, but please note that you will not have access to data synchronization and smart speaker features. For the best experience, it is recommended to register and log in to your account.



ADDING DEVICES:

- Access the Device Search Page: Click on the "Add Device" button to navigate to the device search page. For a successful addition, ensure that your phone is in close proximity to the target device.
- Select and Add the Device: Locate the desired device from the search results. Choose the target device and follow the prompts to complete the addition process.



LED TYPE SETTING:

Digital RGBCCT Controller is an all-in-one LED controller that is compatible with 12 different types of LEDs. To ensure proper operation, adjust the LED parameters according to the connected LED type. Refer to the "LED Type Table" for specific settings. For example, when using SPI RGBCCT type LEDs:

1 Enter the parameter setting interface.

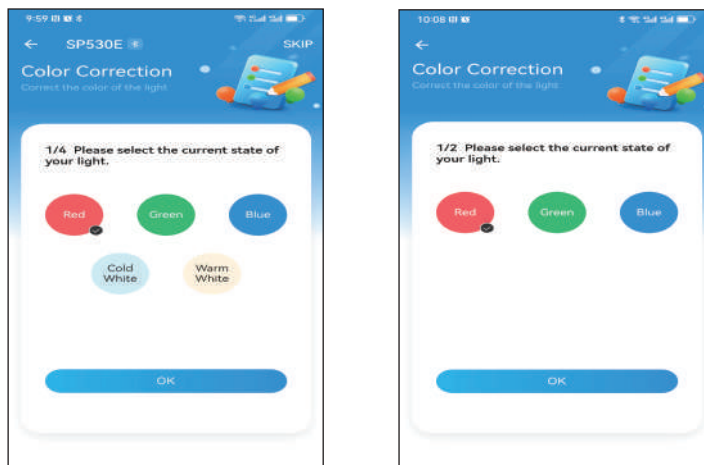
2 Set the parameters for the RGB,CW and WW channels to "IC".

3 Depending on the driver IC used by the LED,choose either a "6-channel IC" or a "5-channel IC". **Note: This option is only available for LED that offer a choice between two types of driver ICs.**

COLOR CORRECTION:

The purpose of color correction is to synchronize the controller's commands with the actual color displayed by the LED.

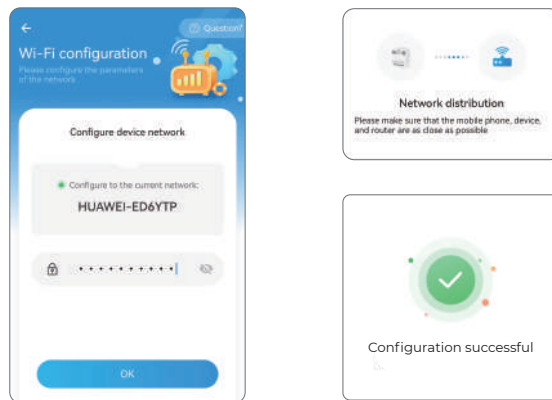
- To do this, enter the color correction interface.
- Choose the color button that corresponds to the LED's actual color. For instance, RGBCCT LEDs offer options for five colors, while RGB LEDs have three, allowing users to easily and precisely adjust colors.



WiFi CONFIGURATION:

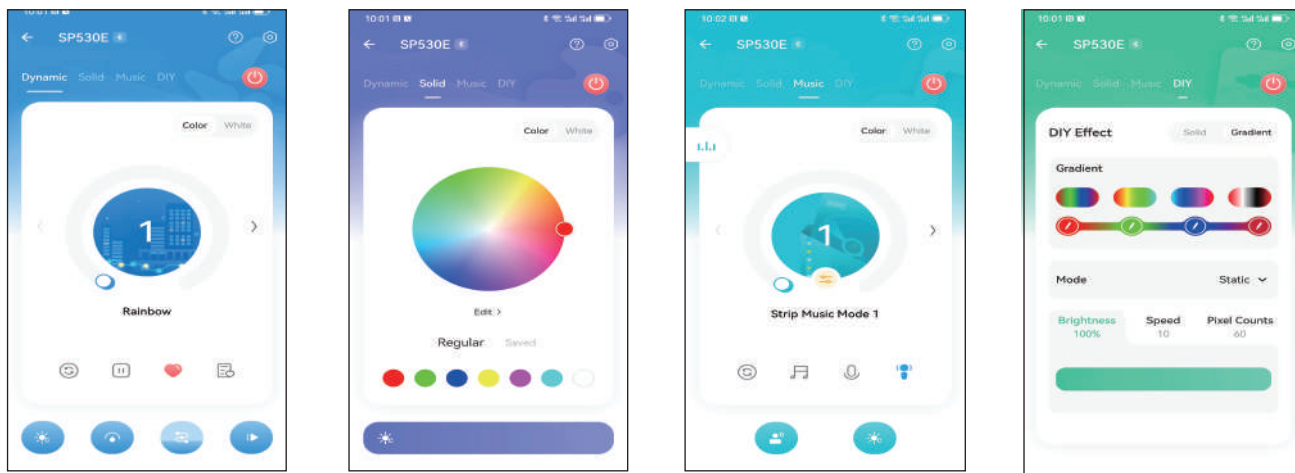
First, make sure your smartphone is connected to the 2.4GHz WiFi network you want to set up.

- **TO ENTER THE WiFi CONFIGURATION INTERFACE**, input your WiFi network password in the interface, then click "OK" to start the network configuration process. During this process, the controller's green light will start flashing (ensure the phone, device, and router are as close to each other as possible).
- **WAIT FOR SUCCESSFUL CONFIGURATION:** Wait for a moment. If the configuration is successful, a success interface will appear, and the green light will stay on.



CONTROL INTERFACE:

After selecting the LED type, color correction, and WiFi configuration, the user will automatically proceed to control interference. The app recognizes the selected LED type. For example, the main control interference is demonstrated using an SPI RGB CCT type LED.

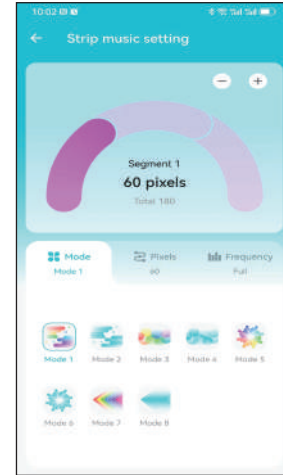
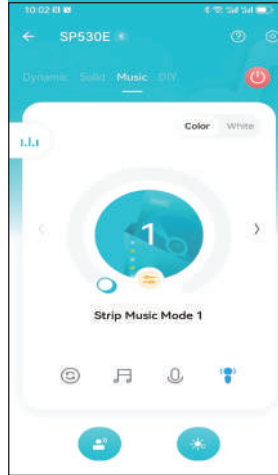
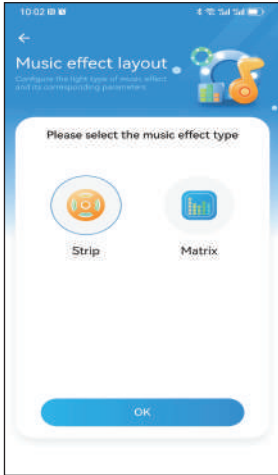


MUSIC SETTING EFFECT:

The SP530E offers two music effect modes: Strip Music Mode and Matrix LED Music Mode, allowing selection based on the connected LED.

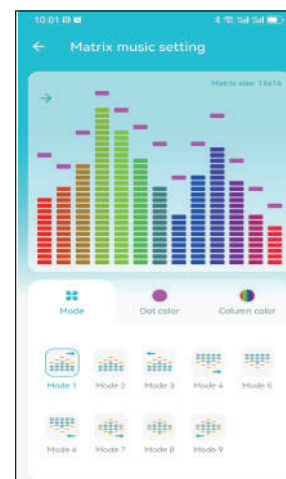
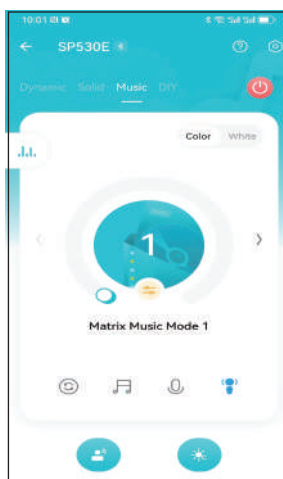
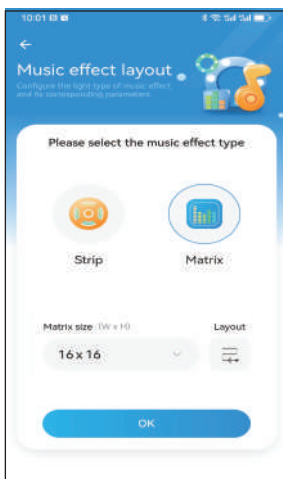
1. STRIP MUSIC EFFECT MODE:

- Select the "Strip" music effect layout and confirm by clicking the "OK" button.
- Return to the control interface, click on the music interface, and enter the Strip Music Effect interface.
- In the Strip Music Effect interface, click the middle "Settings" button to access and customize the Strip Music Effects settings.



2. MATRIX LED MUSIC SPECTRUM EFFECTS SETTINGS:

- Enter the music effect layout interface, select "Matrix", and confirm the layout settings based on your Matrix's dimensions and wiring.
- Return to the control interface and click on the music interface to access the Matrix LED music spectrum effects interface.
- In the Matrix LED music spectrum effects interface, click the middle "Setting" button to enter the settings and customize the effects.
- In the settings, you can choose modes, set parameters like drop point color and sound bar color, and personalize your Matrix LED music spectrum effects.

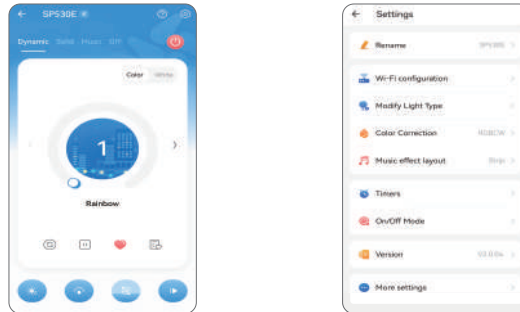


SETTINGS INTERFACE:

In the top right corner of the control interface, locate and click the "⚙️" button to enter the settings interface.

INITIAL SETUP: When you set up a device for the first time, the guide will walk you through each step to configure the necessary settings. This includes selecting the LED type, adjusting color settings, connecting to WiFi, and customizing music effects, among other options.

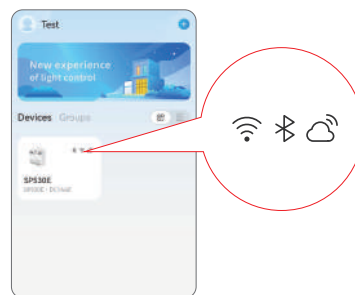
MODIFY SETTINGS: The settings interface allows you to easily modify any initial configurations at any time. You can also use this interface to customize various device settings, including; Renaming your device;Scheduling automatic power on/off times Customizing power on/off visual effects ;Performing wireless software updates (OTA updates); Configuring the device's power-on state.This user-friendly interface puts you in control of your device's settings and preferences.



SMART CONNECTIVITY:

This controller supports Bluetooth,WiFi, and remote connections, enhancing the connection experience with an intelligent selection mechanism:

AVAILABLE CONNECTION DISPLAY: The home page's device list highlights the currently available connection methods. If all three connection methods are selectable.



INTELLIGENT CONNECTION SELECTION: The control interface displays the currently used connection method next to the device name, showing that the controller environment.

MULTI-MODE SMART CONNECTION AND SELECTION OPTIMIZATION: This ensures a flexible, convenient, and stable device connection experience.

