

Optoelectronics SP648E SPI RGB LED Controller Instructions

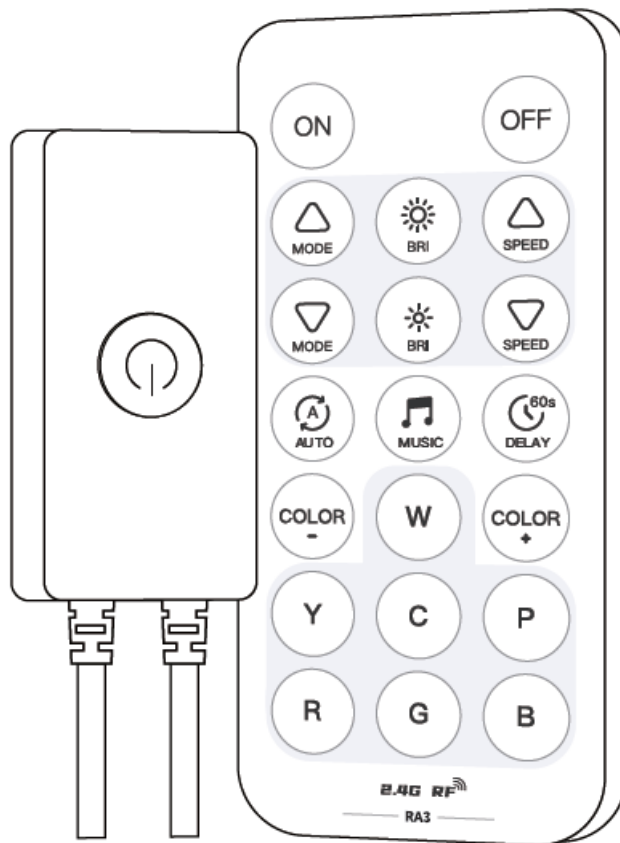
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Optoelectronics

Optoelectronics SP648E SPI RGB LED Controller



SP648E SPI RGB LED Controller

Product Information

- SPI three-channel addressable RGB LED controller
- Supports App control and remote control
- Supports up to 600 single-wire RZ RGB LED driver ICs
- Built-in a variety of music and dynamic effects, with support for effects pause and multi-parameter adjustment
- Captures music through phone microphone, player streamer and on-board microphone
- Supports effect collection and DIY effects
- Includes a variety of ON/OFF animation effects
- Includes sequential channel calibration and ON/OFF timer functions
- Supports OTA firmware upgrade
- Complies with part 15 of the FCC Rules and with FCC radiation exposure limits

Product Usage Instructions

1. Download and install the BanlanXin App from the App Store or Google Play.
2. Open the App and click the icon in the top right corner of the home page to add the device.
3. Click the icon in the upper right corner of the App to enter the settings page, where you can modify the device name, set timings, set the on/off effect, OTA firmware upgrade, etc.
4. The SP648E supports remote control. Use the RA3 remote control to operate the device. Short press the ON button to turn on the light, and long press it within 20 seconds after the controller is powered on to bind/unbind the remote control. Short press the OFF button to turn off the light, and long press it within 20 seconds after the controller is powered on to first turn off the lights completely, and then long press the button to clear all bound

remote controls.

5. The SP648E can be wired to a DC5-24V power source using GND, DAT, and VCC wires.

Brief

SPI three-channel addressable RGB LED controller, with unique dynamic, music and DIY effects to meet your lighting and ambiance needs.

Features



1. Support App control and remote control;
2. Support up to 600 single-wire RZ RGB LED driver ICs;
3. Built-in a variety of music and dynamic effects, support effects pause, multi-parameter adjustable;
4. Capture music through the phone microphone, player streamer and on-board microphone;
5. Support effect collection;
6. support DIY effects;
7. With a variety of ON/OFF animation effects;
8. With sequential channel calibration and ON/OFF timer functions;
9. Support OTA firmware upgrade.

APP

1. SP648E 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



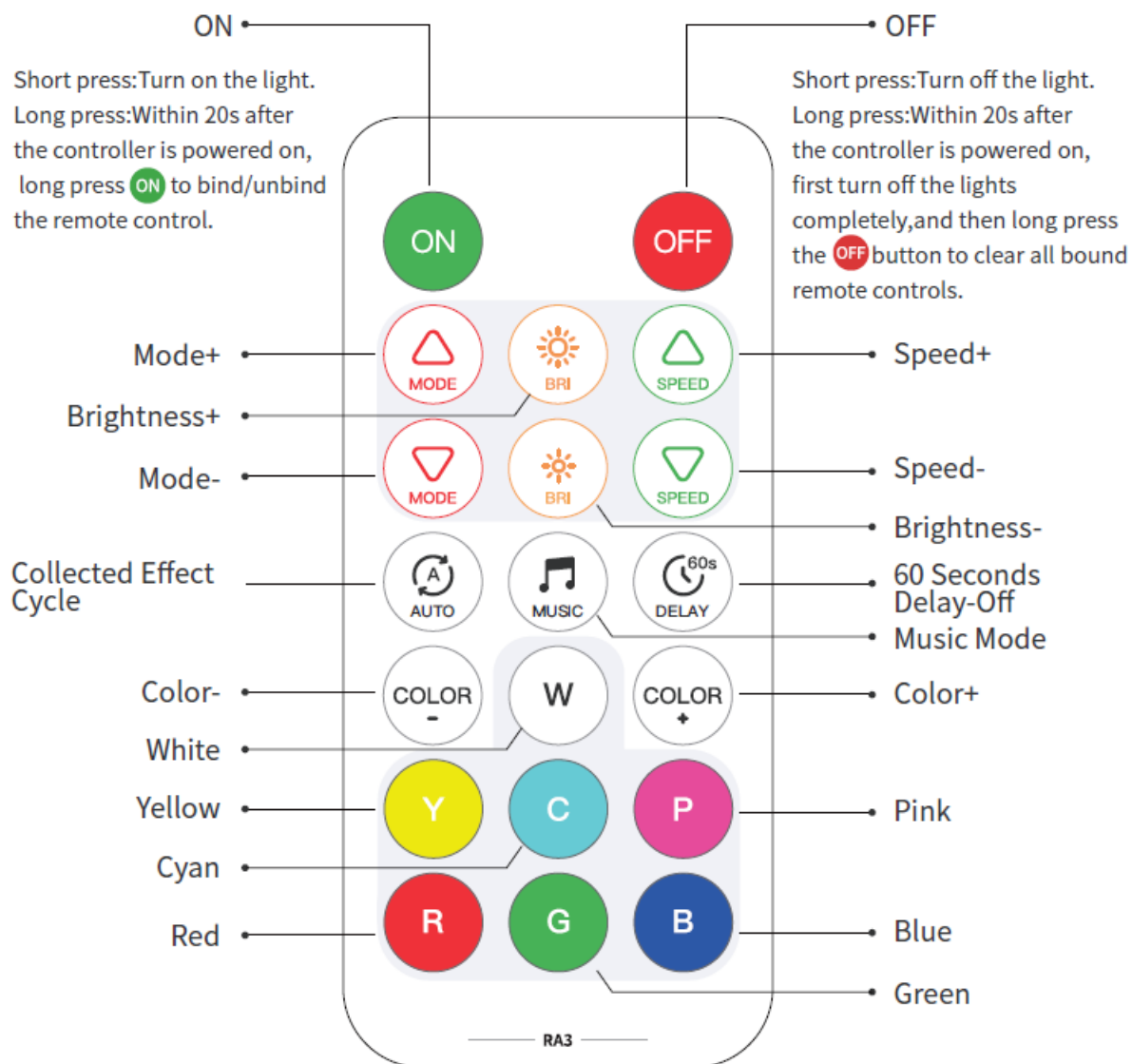
Operation

- Open the App, click the  icon in the top right corner of the home page to add device;
- Click the icon  in the upper right corner of the App to enter the settings page, where you can modify the device name ,set the timings, set the on/off effect, OTA firmware upgrade, etc.

Work With Remote Control

The remote control models (RA3) matched with SP648E are as follows:

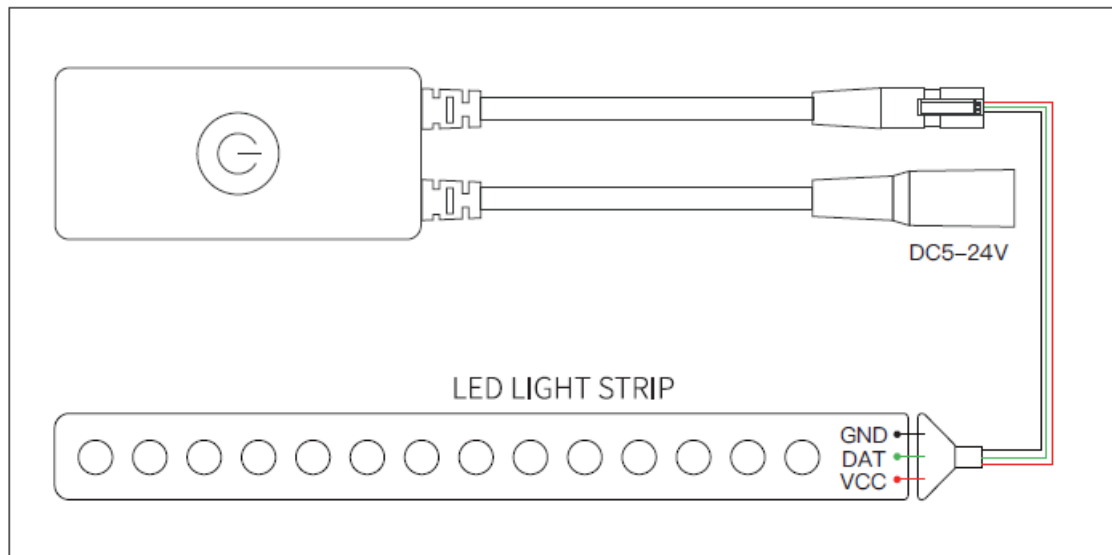
- Support one-to-many control ,one remote control can control multiple controllers.
- Support many-to-one control, each controller can bind up to 5 remote controls.



Technical Parameters

Working Voltage: DC5V~24V	Working Current:12mA~25mA
Working Temp: -20°C~60°C	Dimension: 55mm*26mm*12mm (not including the wires)

Wiring



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.

Documents / Resources

SP648E Instructions



SP648E SPI RGB LED Controller
CE FCC RoHS

[Optoelectronics SP648E SPI RGB LED Controller](#) [pdf] Instructions
2ATV8SP64XE, SP648E, SP648E SPI RGB LED Controller, SPI RGB LED Controller, RGB LED Controller, LED Controller