

SP103E Mini-RF controller operating instructions

The SPE103E-01 RGB and SPE103-02 RGBW are designed to operate with digital SPI intelligent pixel products. Industry standard connectors allows for plug and play connection. An external power supply is required to power the controller and LEDs. The controller is supplied paired with its remote control.



1. Features:

1. RF communication
2. Transmission distance 10 metres maximum
3. Supports most types of one-wire or two-wire LED driver IC ;(Can be customized)
4. 300 built-in programs
5. Each controller can control up to 2048 pixels.
6. User saving function.
7. Brightness adjustable.
8. Speed adjustable
- 9.Reverse power connection protection.

2. Remote Controller

1. Button functions:

ON/OFF	AUTO	SPEED UP	SPEED DOWN	MODE UP	MODE DOWN	BRIGHTNESS UP	BRIGHTNESS DOWN	MATCH	SETTING	RED	GREEN	BLUE	WHITE

2.Operation:

Testing	Continuously press the AUTO button 5 times until LED is off. Release the AUTO button to into the mode switching in red, green, blue, yellow, purple, cyan and white, to test the LED.
Matching	Continuously press the MATCH button 5 times until LED flashes white quickly to match the Remote control with the receiving controller. Press the MATCH button 5 times until the LED flashes white slowly to un-match.
Reorder RGB	Different types of LED. The R G B keys may not perfectly match to the LED, Reorder them if necessary. Continuously press the SETTING button 5 times until LED flashes white once and then turn into all white. Press the R button until the LED is red, press the G button until the LED is green, press the B button until the LED is blue. Then press the SETTING button once to confirm the setting;
Adjust Num of pixels	The factory default setting of the number of controlled pixels is 600. Continuously press the SETTING button 5 times until the LEDs flash once and then turn all white. Press MODE+ to add pixels, press MODE- to decrease the number of pixels, (each pressing adds or decreases 60 pixels) then press the SETTING button to confirm the setting. Can be regulated to up to 2048 pixels. The minimum number is 300 pixels.
Catching	When in the AUTO mode, press the SETTING button once and then press MATCH button once to catch the current pattern to stay and operate circularly.

3.Receiving Controller:

- Can be customized to support almost every kind of one-wire or two-wire LED-DRIVER-IC;
- The receiver controller has two kinds of working voltage :5VDC supply voltage or 12VDC supply voltage.

● **Caution: Please make sure the power supply voltage matches the controller and LEDs and check the polarity is correct prior to power ON.**

Specifications may be subject to change without notice