

# 2.4G SPI LED Controller

## LC-0RGB-D4-19



### Description:

The MINI multicolor LED controller is suitable for RGB multicolor LED strip. Via the controller, color change effect can be controlled; pixel quantity, can be set; speed and brightness can be adjusted.

### Features:

1. Max. control distance of controller can be up to 100m (in open condition);
2. Memory function after power off;
3. One remote controller can control multiple controllers.

### Technical parameters:

1. Working voltage: 5-24V DC	9. 60 Change modes
2. Max. current: 9A	10. Working environment: indoor
3. Max. power: 45W/108W/216W (5V/12V/24V)	11. Waterproof grade: IP20
4. Control type : RGB multicolor LED strip	12. Working temperature range: -30 °C-55°C
5. RF frequency: 2.4 GHz	13. Product dimension: L99.5*W45*H22.5mm
6. Receiving sensitivity: -96dBm	14. Packing dimension: L107*W52*H35mm
7. Transmitted power: 6dBm	15. Weight (gross weight): about 105 gram
8. Remote-controlled distance: 100m (in open air )	



## Instruction:

### 1. Controller key description

- (1) POWER, on/off
- (2) PAUSE, pause during dynamic mode (invalid in static mode);
- (3) MODE+, mode increase
- (4) MODE-, mode decrease
- (5) SPEED+, speed increase (invalid in static mode);
- (6) SPEED-, speed decrease (invalid in static mode);
- (7) BRT+, brightness increase (invalid in dynamic mode)
- (8) BRT-, brightness decrease (invalid in dynamic mode)

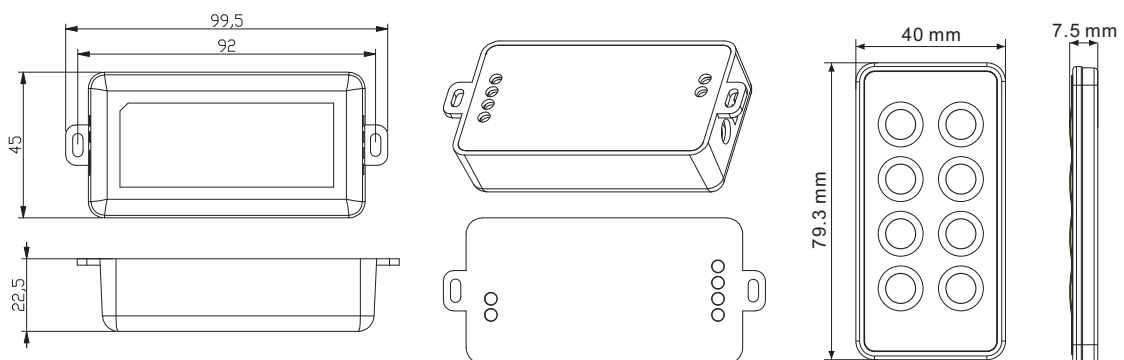
### 2. Remote controller matching steps

- (1) Disconnect controller power;
  - (2) Reapply power on controller ;
- Press any key of controller to be matched in 5 seconds, and match finish.

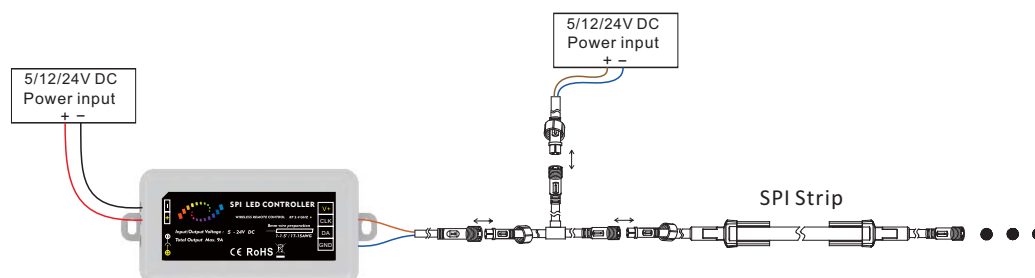
### 3. Setting pixel steps

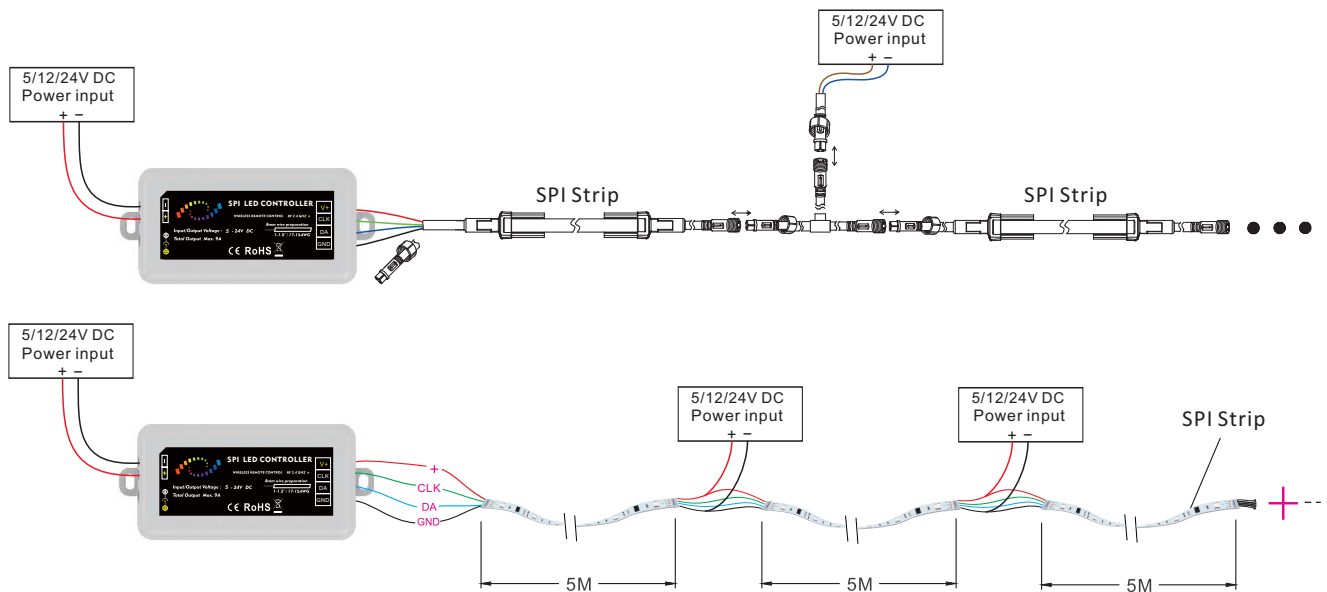
- (1) Press "POWER" to power off, then press "PAUSE", green light is on;
- (2) Press "MODE+" "MODE-" can increase, decrease pixel points seperately (only can increase/decrease 10 points);
- (3) Press "POWER" twice, save the current pixel.

## Dimension(unit:mm):



## Wiring diagram:





### Color mode:

- |                          |                                    |   |
|--------------------------|------------------------------------|---|
| 1. static red            | 22. red running water              | 41. yellow flow in single direction   |
| 2. static green          | 23. green running water            | 42. purple flow in single direction   |
| 3. static blue           | 24. blue running water             | 43. cyan flow in single direction   |
| 4. static yellow         | 25. yellow running water           | 44. white flow in single direction  |
| 5. static purple         | 26. purple running water           | 45. red flow in single direction  |
| 6. static cyan           | 27. cyan running water             | 46. green flow in bidirection   |
| 7. static white          | 28. white running water            | 47. blue flow in bidirection  |
| 8. red running horse     | 29. red gradients chase            | 48. yellow flow in bidirection  |
| 9. green running horse   | 30. green gradients chase          | 49. purple flow in bidirection  |
| 10. blue running horse   | 31. blue gradients chase           | 50. cyan flow in bidirection  |
| 11. yellow running horse | 32. red green gradients chase      | 51. white flow in bidirection   |
| 12. purple running horse | 33. blue green gradients chase     | 52. red raindrop falling  |
| 13. cyan running horse   | 34. blue red gradients chase       | 53. green raindrop falling  |
| 14. white unning horse   | 35. red green blue                 | 54. blue raindrop falling   |
| 15. red flying snow      | 36. yellow cyan purple             | 55. yellow raindrop falling   |
| 16. green flying snow    | 37. gradients chase                | 56. purple raindrop falling   |
| 17. blue flying snow     | 38. red flow in single direction   | 57. cyan raindrop falling   |
| 18. yellow flying snow   | 39. green flow in single direction | 58. white raindrop falling  |
| 19. purple flying snow   | 40. blue flow in single direction  | 59. 7 colors (red green blue yellow cyan purple) cycle raindrop falling       |
| 20. cyan flying snow     |                                    | 60. 7 colors (red green blue yellow cyan purple) continuours raindrop falling |
| 21. white flying snow    |                                    |   |

### Compatible with IC model:

TM1804, TM1809, TM1812, UCS1903, UCS1909, UCS1912, UCS2903, UCS2909, UCS2912, TM1803, TLS3001, TLS3002, LPD6803, LPD1101, D705, UCS6909, UCS6912, LPD8803, LPD8806, WS2801, WS2803, WS2811, WS2812B, P9813



## **!** Notice

1. The controller must be installed by professionals;
2. When installing the controller, first power off, then connect LED products with controller, after doing the right, then power on it;
3. The product is non-waterproof, Please install and use it in dry environment;
4. Good cooling conditions will extend lifetime of controller, please install the product in well-ventilated environment;
5. Ensure input voltage conform to voltage range requirement of product;
6. Wire size used must be sufficiently load connected and make sure wires are securely connected;
7. Before power on, ensure that all the wiring is correct to avoid errors caused by wiring lamps damage;
8. If a failure occurs, don't repair without permission, please contact the manufacturer.