

# RTS

## SPI RF Remote Controller

### Features

- Used for RF RGB/RGBWW SPI LED controller.
- Ultra sensitive RGB color adjustment touch wheel.
- Support to set the color, change type, motion direction, speed, brightness of the dynamic mode.
- Support to set LED strip length, chip type, R/G/B/W color sequence.
- 8 scene memory.
- AAAx2 battery powered.
- Operate with LED indicator light.

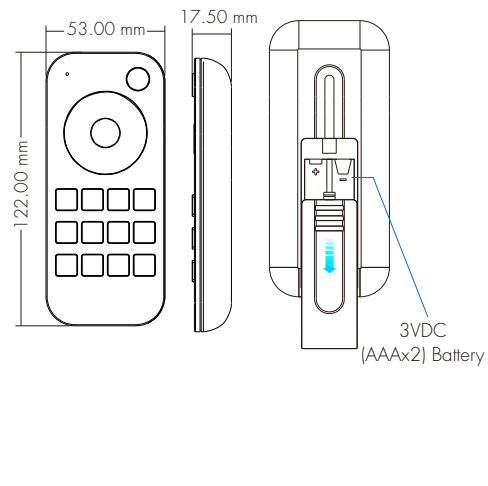


The certification icon represents undergoing certification applications only, and final certification qualification subject to actual product.

### Technical Parameters

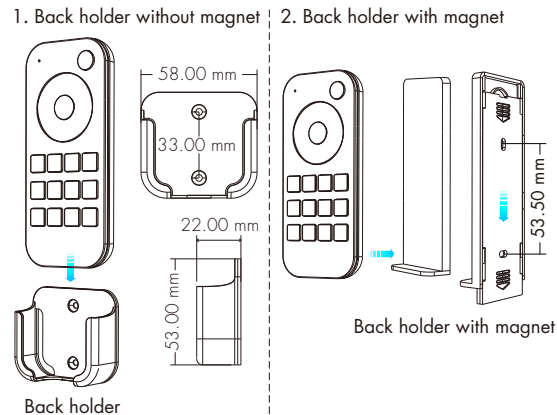
| Input and Output |                         | Safety and EMC  |                                                       | Environment           |                    |
|------------------|-------------------------|-----------------|-------------------------------------------------------|-----------------------|--------------------|
| Output signal    | RF(2.4GHz)              | EMC standard    | EN IEC 55015/<br>EN IEC 61547<br>ETSI EN 301 489-1/-3 | Operation temperature | Ta: -30°C ~ +55°C  |
| Working voltage  | 3VDC(AAAx2)             |                 |                                                       | IP rating             | IP20               |
| Working current  | <8mA                    | Safety standard | EN 61347-1/-2                                         | Packing               |                    |
| Standby current  | <7μA                    | Radio Equipment | ETSI EN 300 440                                       | Size                  | L140 x W60 x H26mm |
| Remote distance  | 30m(Barrier-free space) | Certification   | CE RoHS FCC UL                                        | Gross weight          | 0.088kg            |
| Standby time     | 1 year                  | Warranty        | 5 years                                               |                       |                    |

### Mechanical Structures and Installations



### Back Holder

Two options are offered for selection, please fix the back holder on the wall with two screws, or adhere the back holder to the wall with pasteur.



# SPI

## Match Remote Control (two match ways)

End user can choose the suitable match/delete ways. Two options are offered for selection:

### Use the controller's Match key

Match:

Short press match key,  
immediately press on/off key of the remote.  
The LED indicator fast flash a few times means match is successful.

Delete:

Press and hold match key for 5s to delete all match,  
The LED indicator fast flash a few times means all matched remotes  
were deleted.

### Use Power Restart

Match:

Switch off the power, then switch on power, repeat again.  
Immediately short press on/off key 3 times on the remote.  
The light blinks 3 times means match is successful.

Delete:

Switch off the power, then switch on power, repeat again.  
Immediately short press on/off key 5 times on the remote.  
The light blinks 5 times means all matched remotes  
were deleted.

### Key Function



- Turn on/off light.
- Touch to change static RGB color.
- Short press: Switch the color of the dynamic mode in sequence (e.g. Red, Orange, Yellow, Green, Cyan, Blue, Purple, White, R/G/B 3-color, 7-color).  
Long press for 2s: Set 6 levels of color saturation (80%, 60%, 40%, 20%, 0%, 100%) in sequence, i.e., transition the current color to RGB mixed white.
- Long press for 2s to switch between Standard Dynamic Mode (indicator flashes once) and Custom Dynamic Mode (indicator flashes twice).  
Default: Standard Dynamic Mode.
- Standard Dynamic Mode:  
Short press to switch among 40 dynamic effects. (Note: Requires our SPI controllers (WT-SPI, SC-L, etc.). Non-specified controllers may not support all effects.)  
Press and hold for 2s to set static transition effect.
- Custom Dynamic Mode:  
Short press to switch the change types of the custom dynamic modes in sequence. e.g. static, flow, chasing light, pile-up, floating, tail dragging, tail dragging + black segment, bouncing, shuttle, jump, fade, breath, flashing, chaotic flashing. (Note: Requires our SPI controllers (WT-SPI, SC-L, etc.). Non-specified controllers may not support all effects.)  
Long press for 2s: Set the first change type (static).
- Short press: Switch 10 levels of speed in sequence.  
Press and hold for 2 seconds:  
In Standard Dynamic Mode, set speed to Level 7;  
in Custom Dynamic Mode, cycle through light movement directions. (e.g. forward, backward, round trip, both sides to center, center to both sides, curtains open and close).
- Short press: Switch 5 brightness levels in sequence (100%, 80%, 60%, 40%, 20%).  
Long press for 2s: Get maximum brightness 100%.
- 8 Scene storage.  
Short press: Call up scene 1-8.  
Long press 2s: Save the current lighting effect to scene 1-8.  
When saving is successful, the LED indicator is green.

**Note:** The remote control will automatically get the number of dynamic mode color, the number of change type, and the number of light movement direction from the SPI controller.

## Dynamic Mode List

| No. | Name                                   | No. | Name                                | No. | Name                                       |
|-----|----------------------------------------|-----|-------------------------------------|-----|--------------------------------------------|
| P01 | Red horse race white ground, forward   | P16 | Blue meteor, backward               | P31 | 7 color jump sectionally, forward          |
| P02 | Green horse race white ground, forward | P17 | Purple meteor, backward             | P32 | 7 color strobe sectionally, forward        |
| P03 | Blue horse race white ground, forward  | P18 | White meteor, backward              | P33 | White horse race (RGB jump)                |
| P04 | Yellow horse race blue ground, forward | P19 | 7 color meteor, backward            | P34 | White smooth horse race (RGB smooth)       |
| P05 | Cyan horse race blue ground, forward   | P20 | Red float, forward                  | P35 | White starlight (RGB random jump)          |
| P06 | Purple horse race blue ground, forward | P21 | Green float, forward                | P36 | White smooth starlight (RGB random smooth) |
| P07 | 7 color multi horse race, forward      | P22 | Blue float, forward                 | P37 | White flow, forward                        |
| P08 | 7 color horse race close + open        | P23 | Purple float, forward               | P38 | White flow, forward on + backward off      |
| P09 | 7 color multi horse race close + open  | P24 | RGBW float, forward                 | P39 | White flow, forward on + backward on       |
| P10 | 7 color scan close + open              | P25 | Red Yellow float, forward           | P40 | White float                                |
| P11 | 7 color multi-scan close + open        | P26 | Green Cyan float, forward           |     |                                            |
| P12 | Blue White chase, forward              | P27 | Blue Purple float, forward          |     |                                            |
| P13 | Green Cyan chase, forward              | P28 | Blue White float, forward           |     |                                            |
| P14 | RGB chase, forward                     | P29 | 6 color float, forward              |     |                                            |
| P15 | 7 color chase, forward                 | P30 | 6 color smooth sectionally, forward |     |                                            |

### Note:

P33-P40 dynamic modes are applicable to SPI type white light strip.

P33-P36 dynamic modes, if the color SPI strip is connected, the corresponding color effect will appear.

## Use Remote Set SPI Digital LED Strip

Long press  key and  key for 2s to enter the parameter setting state and the LED indicator turns green.

Short press  key or touch the RGB color ring to exit the parameter setting status.

 -  key correspond to the number 1-8,  key correspond to the number 9,  key correspond to the number 0, and  key correspond to \*.

- Set LED strip length [Pixel number(8~1024)]. \* + 3 number + \*  
Example: \*032\*: Set pixel number to 32. \*600\*: Set pixel number to 60. \*1024\*: Set pixel number to 1024.
- Set LED strip chip type. \* + 2 number + \*
  - \*11\*: TM1803
  - \*12\*: TM1809,TM1804,TM1812,UCS1903,UCS1909,UCS1912,SK6813,UCS2903,UCS2909,UCS2912,WS2811,WS2812,WS2813,WS2815,SM16703P
  - \*13\*: TM1829
  - \*14\*: TLS3001,TLS3002
  - \*15\*: GW6205
  - \*16\*: MBI6120
  - \*17\*: TM1814B(RGBVV)
  - \*18\*: SK6812(RGBVV), WS2813(RGBW),WS2814(RGBW)
  - \*19\*: UCS8904B(RGBW)
  - \*21\*: LPD6803,LPD1101,D705,UCS6909,UCS6912
  - \*22\*: LPD8803,LPD8806
  - \*23\*: WS2801,WS2803
  - \*24\*: P9813

- \*25\*: SK9822
- \*31\*: TM1914A
- \*32\*: GS8206,GS8208
- \*33\*: UCS2904
- \*34\*: SM16804
- \*35\*: SM16825
- \*36\*: SM16714(RGBW)
- \*37\*: UCS5603
- \*38\*: UCS2603
- \*39\*: SM16714D
- \*41\*: UCS7604(RGBW)
- \*42\*: UCS7804(RGBW)
- Set LED strip RGB order. \* + 1 number + \*  
\*1\*:RGB, \*2\*:RBG, \*3\*:GRB, \*4\*:GBR, \*5\*:BRG, \*6\*:BGR
- Set RGBW LED strip RGB and W order.  
\*7\*:W after RGB  
\*9\*:W before RGB  
Example: \*1\* + \*7\* set RGBW order, \*1\* + \*9\* set WRGB order.

## Statement

### FCC ID Statement:

Mobile

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.

### IC ID Statement:

Mobile

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

## Installation Precautions

- Please read all instructions carefully before starting the installation.
- When installing the batteries, pay attention to the positive and negative poles of the batteries; please remove the batteries when you don't use the remote control for a long time; please replace the batteries in time when the distance of the remote control becomes smaller or the remote control fails frequently.
- If the receiver does not respond, repair the remote control.
- Hold it gently and avoid dropping it.
- For indoor and dry environments only.
- Avoid using it in large metal areas or areas with strong electromagnetic waves, otherwise the remote control distance will be affected.