

Single Color LED Controller Kit

Model No.: V1 + RT1

1 channels constant voltage/Touch color wheel/Stepless dimming/Wireless remote 30m distance



FC CE RoHS RED

Feature

- Remote control or connected with external push switch to achieve on/off and dimming function
- Ultra sensitive brightness adjustment touch wheel
- Smooth dimming and switch without any flickering
- 4 scene memory
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance
- Light on/off fade time 3s selectable

Technical Parameters

| LED Receiver's Input and Output | |
|---------------------------------|---------------------------------------|
| Input voltage | 5-36VDC |
| Input current | 8.5A |
| Output voltage | 5-36VDC |
| Output current | 1CH, 8A |
| Output power | 40W/96W/192W/288W (5V/12V/24V/36V) |
| Output type | Constant voltage |

| Dimming data | |
|---------------|-------------|
| Dimming level | 4096 levels |
| Dimming range | 0-100% |
| Dimming curve | Logarithmic |
| PWM Frequency | 2000Hz |

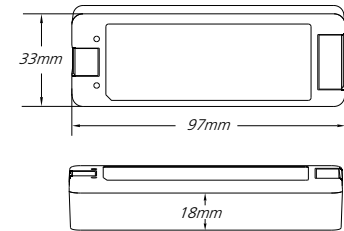
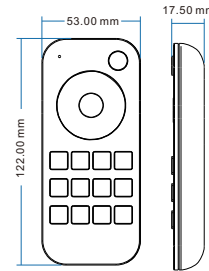
| Warranty and Protection | |
|-------------------------|------------------|
| Warranty | 5 years |
| Protection | Reverse Polarity |

| LED Remote's Input and Output | |
|-------------------------------|-------------|
| Output signal | RF[2.4GHz] |
| Working voltage | 3VDC(AAAx2) |
| Working current | <5mA |
| Standby current | <10µA |
| Standby time | 2 year |
| Remote distance | 30m |

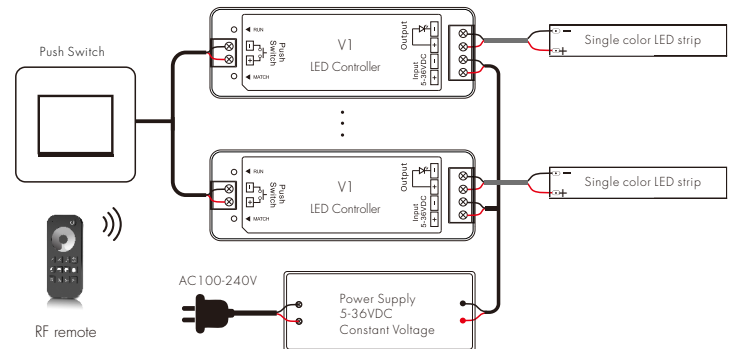
| Safety and EMC | |
|----------------------|---|
| EMC standard (EMC) | ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4 |
| Safety standard(LVD) | EN 62368-1:2020+A11:2020 |
| Radio Equipment(RED) | ETSI EN 300 328 V2.2.2 |
| Certification | CE, EMC, LVD, RED |

| Environment | |
|-------------------------|-------------------|
| Operation temperature | Ta: -30°C ~ +55°C |
| Case temperature (Max.) | Tc: +85°C |
| IP rating | IP20 |

Mechanical Structures and Installations



Wiring Diagram



Remote function



- : Turn on/off light.
- : Touch to change brightness.
- : Adjust brightness, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.
- : Small night brightness (10%).
- : Turn off light after 30s, long press 2s will turn off light after 60s.
- : 25%, 50%, 75%, 100% brightness.
- : Short press recall the scene, long press 2s save current brightness into S1/2/3/4, the LED indicator display green when save OK.

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.

Delete:
Press and hold match key for 5s to delete all match, The light blinks 5 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.

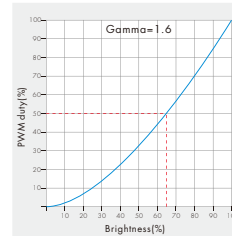
Delete:
Switch off the power, then switch on power, repeat again, Immediately short press on/off key 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

Light on/off fade time

Long press match key 5s, then short press match key 3 times, the light on/off time will be set to 3s, the indicator light blink 3 times.

Long press match key 10s, restore factory default parameter, the light on/off time also restore to 0.5s.

Dimming Curve



Malfunctions analysis & troubleshooting

| Malfunctions | Causes | Troubleshooting |
|--|--|---|
| No light | 1. No power. 2. Wrong connection or insecure. | 1. Check the power. 2. Check the connection. |
| Uneven intensity between front and rear, with voltage drop | 1. Output cable is too long. 2. Wire diameter is too small. 3. Overload beyond power supply capability. 4. Overload beyond controller capability. | 1. Reduce cable or loop supply. 2. Change wider wire. 3. Replace higher power supply. 4. Add power repeater. |
| No response from the remote | 1. The battery has no power. 2. Beyond controllable distance. 3. The controller did not match the remote. | 1. Replace battery. 2. Reduce remote distance. 3. Re-match the remote. |

Safety information

- The product shall be installed and serviced by a qualified person.
- The product is non-waterproof. Please avoid the sun and rain.
- Good heat dissipation will prolong the working life of the controller. Please ensure good ventilation.
- Please check if the output voltage of any power supplies used comply with the working voltage of the product.
- Ensure all wire connections and polarities are correct and secure before applying power to avoid any damages to the LED lights.
- If a fault occurs please return the product to your supplier. Do not attempt to fix this product by yourself.