Dual Color LED Controller Kit

Model No.: V2 + R7-1

2 channels constant voltage/Touch color slide/Step-less dimming/Wireless remote 30m distance



Features

- · Ultra sensitive color adjustment touch slide
- · Smooth dimming and switch without any flickering
- Auto-transmitting function: Controller automaticly transmit signal to another controller with 30m control distance

- · Synchronize on multiple number of controllers
- · Magnet on the back which can be easily stuck on back holder or any metal surfaces

Technical Parameters

| LED Receiver's Input and Output | | LED Remote's Input and O | utput |
|---------------------------------|------------------|--------------------------|-------|
| Input voltage | 12-24VDC | Output signal | RF |
| Input current | 10.5A | Working voltage | 3V |
| Output voltage | 2x(12-24)VDC | Working current | < 5 |
| Output current | 2CH,5A/CH | Standby current | < : |
| Output power | 2x(60·120)W | Standby time | 1 y |
| Output type | Constant voltage | Remote distance | 30 |
| | | | |

| Dimming data | |
|---------------|-------------|
| Dimming level | 4096 levels |
| Dimming range | 0 -100 |
| Dimming curve | Linear |
| PWM Frequency | 500Hz |

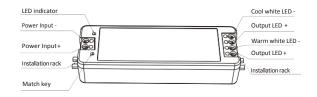
| Warranty and Protection | |
|-------------------------|------------------|
| Warranty | 5 years |
| Protection | Reverse Polarity |

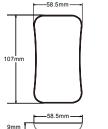
| Les richieres input una output | | |
|--------------------------------|--------------|--|
| Dutput signal | RF(2.4GHz) | |
| Vorking voltage | 3VDC(CR2032) | |
| Vorking current | < 5mA | |
| itandby current | < 10µA | |
| itandby time | 1 year | |
| Remote distance | 30m | |
| | | |
| | | |

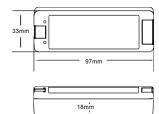
| Safety and EMC | |
|----------------------|--------------------|
| EMC standard (EMC) | EN301 489,EN 62479 |
| Safety standard(LVD) | EN60950 |
| Radio Equipment(RED) | EN300 328 |
| Certification | CE,EMC,LVD,RED |
| | |

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

Mechanical Structures and Installations

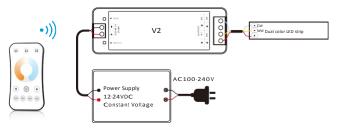




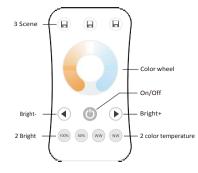




Wiring Diagram



Key function



On/Off: Turn on/off light.

Color wheel: Touch to change color temperature.

Bright+/-: Adjust brightness, short press 10 levels, long press 1-5s for continuous 256 levels adjustment.

100%,50%: Get 100% or 50% brightness directly.

WW: Get warm white directly.

NW: Get cold white directly.

3 Scene: Short press recall the scene, long press 2s save current color into the scene.

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

Use Power Restart

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

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

Application notes

All the receivers are matched with one RF remote.



RF remote

Auto-transmitting: One receiver can transmit the signals from the remote to another receiver within 30m, as long as there is a receiver within 30m, the remote control distance can be limitless.

Auto-synchronization: Multiple receivers within 30m distance can work synchronously when they are controlled by the same remote.

Receiver placement may offer up to 30m communication distance. However, we recommend for indoor applications that receiver placements should be no further apart than15m.

Dual color control

CH1=Warm white LED

CH2=Cool white LED

Each channel can supply up to 120W(@24V) and white balance can be controlled as such:

| Color temperature | Cool white | Neutral white | Warm white |
|--------------------|-----------------|-----------------|-----------------|
| Power distribution | CH1=0W,CH2=120W | CH1=60W,CH2=60W | CH1=120W,CH2=0W |

Linear dual color tuning

Dimming curve

Brightness(%)



Malfunctions Analysis & Troubleshooting

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