V2 + RT2

RF Dual Color LED Controller Kit

Features

- 2 channel constant voltage output.
- Ultra sensitive color adjustment touch wheel.
- Remote control support 4 quick brightness keys and 4 scene memories.
- Smooth dimming and switch without any flickering.
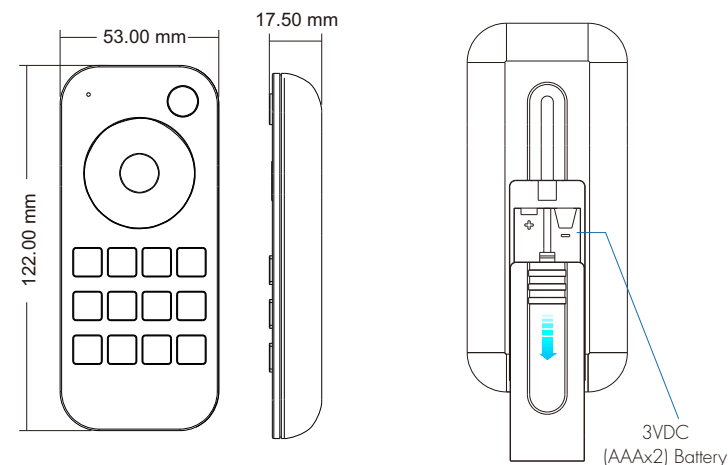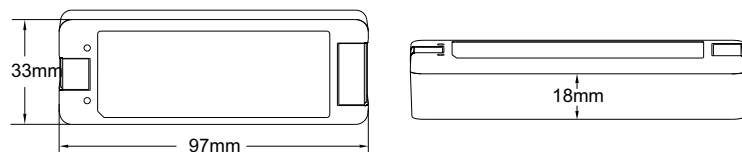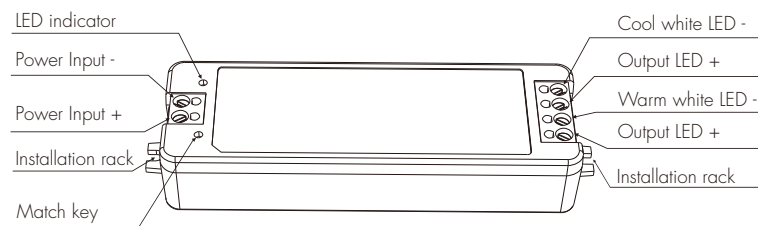- Light on/off fade time 3s selectable.

FC CE RoHS

53.00 mm   17.50 mm

122.00 mm

3VDC (AAAx2) Battery

Technical Parameters

LED Receiver's Input and Output

Input voltage	12-24VDC
Input current	10.5A
Output voltage	2x(12-24)VDC
Output current	2CH,5A/CH
Output power	2 x (60-120)W
Output type	Constant voltage

Dimming data

Dimming level	4096 (2^12) levels
Dimming range	0 - 100%
Dimming curve	Linear
PWM Frequency	2000Hz (default)

RF Remote's Input and Output

Output signal	RF 2.4GHz
Working voltage	3VDC(AAAx2)
Working current	<5mA
Standby current	<10µA
Standby time	1 year
Remote distance	30m(Barrier-free space)

Warranty and Protection

Warranty	5 years
Protection	Reverse polarity Short circuit

Safety and EMC

EMC standard	EN IEC 55015/ EN IEC 61547 ETSI EN 301 489-1/-3
Safety standard	EN 61347-1/-2 EN 62493
Radio Equipment	ETSI EN 300 440
Certification	CE RoHs FCC

Environment

Operation temperature	Ta: -30℃ ~ +55℃
Case temperature (Max.)	Tc: +85℃
IP rating	IP20

Key Function

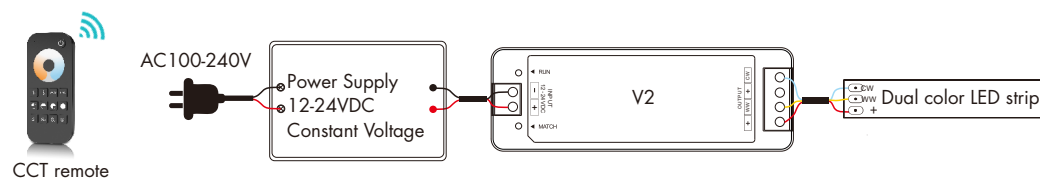|	
⏻	: Turn on/off light.
🌓	: Touch to change color temperature.
☀ ☀	: Adjust brightness, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.
WW CW	: Get warm white or cold white directly.
🌓🌓🌓🌓	: 25%, 50%, 75%,100% brightness.
S₁ S₂ S₃ S₄	: Short press recall the scene, long press 2s save current state into S1/2/3/4. The LED indicator display green when save OK.

Mechanical Structures and Installations

LED indicator
Power Input -
Power Input +
Installation rack
Match key

Cool white LED -
Output LED +
Warm white LED -
Output LED +
Installation rack

33mm
97mm
18mm

Wiring Diagram

AC100-240V
Power Supply
12-24VDC
Constant Voltage
V2
Dual color LED strip

CCT remote

Note:

- Long press the match key for 15s to enable the continuous switch off-on two times rapidly to switch 3 levels color temperature function (This feature is disabled by factory default).
  Long press the match key for 10s to restore the factory setting.
- Power failure memory: after setting the light state for 5s, the current light state will be saved automatically, the light state will not be changed when re-powering.

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 lighting effect will be set to the fade in and fade out in 3s,
the indicator light of LED controller blinks 3 times.
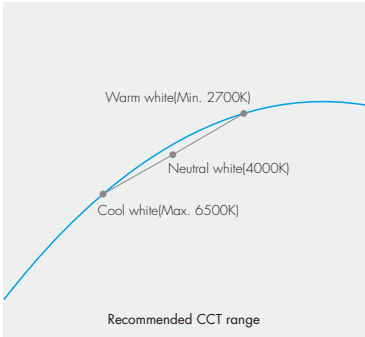Long press match key 10s, restore factory default parameter, the light on/off time restores to 0.5s.

Dual Color Control

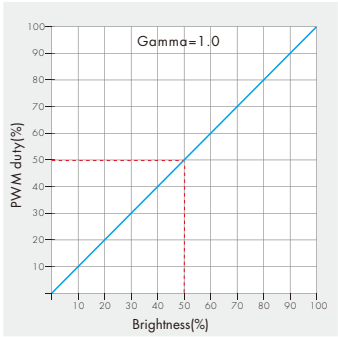WW=Warm white LED   CW=Cool white LED

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	WW=0W,CW=120W	WW=60W,CW=60W	WW=120W,CW=0W

Linear dual color tuning

Recommended CCT range

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.

Statement