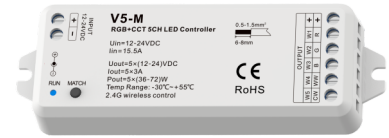# V5-M+R17

RF RGB+CCT LED Controller Kit

- DC socket or wiring screw terminal power input and 5 channel constant voltage output.
- Ultra sensitive color adjustment touch wheel.
- Smooth dimming and switch without any flickering.
- Built in 10 dynamic mode, include jump or gradual change style.
- Independent dimming function of each R, G, B channel to achieve millions of colors.
- One scene memory.
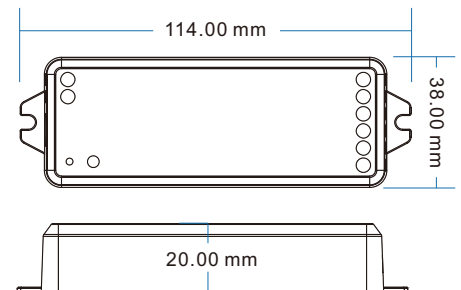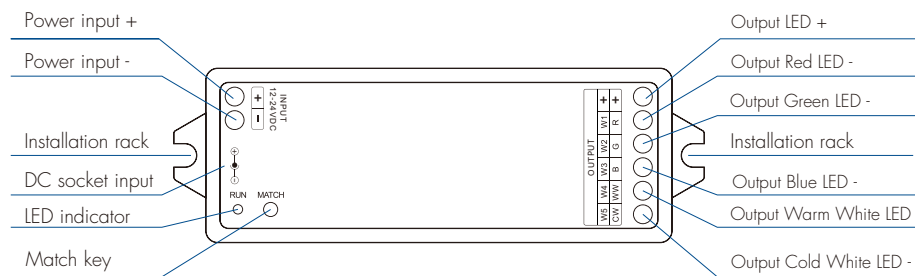- Light on/off fade time 3s selectable.
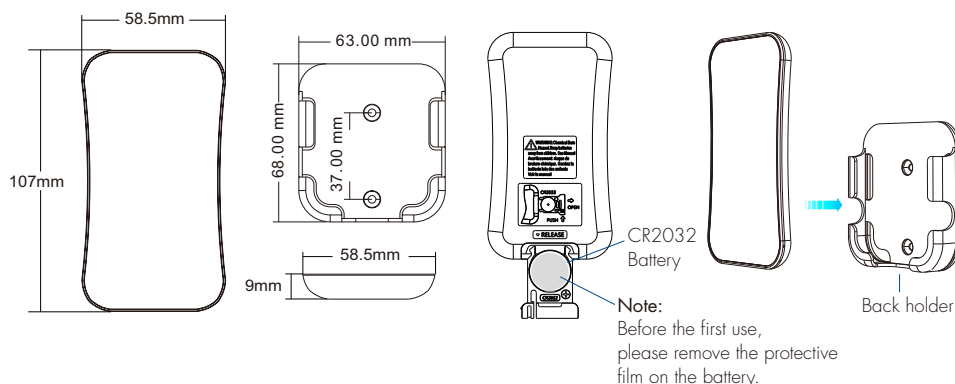
FC CE RoHS RED

Technical Parameters

LED Remote	
Output signal	RF 2.4GHz
Work voltage	3VDC(CR2032)
Work current	<5mA
Standby current	<10μA
Standby time	2 years
Remote distance	30m(Barrier-free space)

Safety and EMC	
EMC standard	EN 62479:2010 ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard	EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017
Radio Equipment	ETSI EN 300 328 V2.2.2
Certification	CE RED

Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity, Short circuit

LED Controller	
Input voltage	12-24VDC
Input current	15.5A
Output voltage	5 x (12-24)VDC
Output current	5CH, 3A/CH
Output power	5x(36-72)W
Output type	Constant voltage

Dimming data	
Dimming gray scale	4096 (2^12) levels
Dimming range	0-100%
Dimming curve	Logarithmic
PWM Frequency	1000Hz (default)

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

Mechanical Structures and Installations

Controller:

- Power input +
- Power input -
- Installation rack
- DC socket input
- LED indicator
- Match key

- Output LED +
- Output Red LED -
- Output Green LED -
- Installation rack
- Output Blue LED -
- Output Warm White LED -
- Output Cold White LED -

114.00 mm
38.00 mm
20.00 mm

Remote:

58.5mm
107mm
63.00 mm
68.00 mm
37.00 mm
58.5mm
9mm

CR2032 Battery

Note:
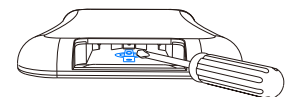Before the first use, please remove the protective film on the battery.

Back holder

To fix the remote, two options are offered for selection:
Option 1:
fix the remote' back holder on the wall with two screws.
Option 2:
adhere the remote' back holder to the wall with paster.
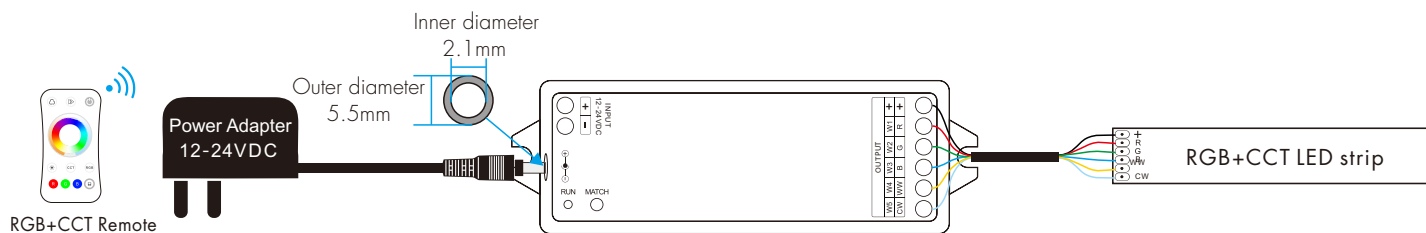
LED indicator state:

- When light is on, touch the color wheel, the indicator will display red.
- To extend battery life, no touch or press key operation after a few seconds, the touch wheel will enter sleep state, you need press any key to make touch wheel quit sleep state.

Note: If the LED indicator is not on when press key,it is due to dead battery or bad contact caused by multiple plugging, please replace the battery, or raise the battery shrapnel with a screw driver.

Wiring Diagram

Inner diameter 2.1mm
Outer diameter 5.5mm

Power Adapter 12-24VDC
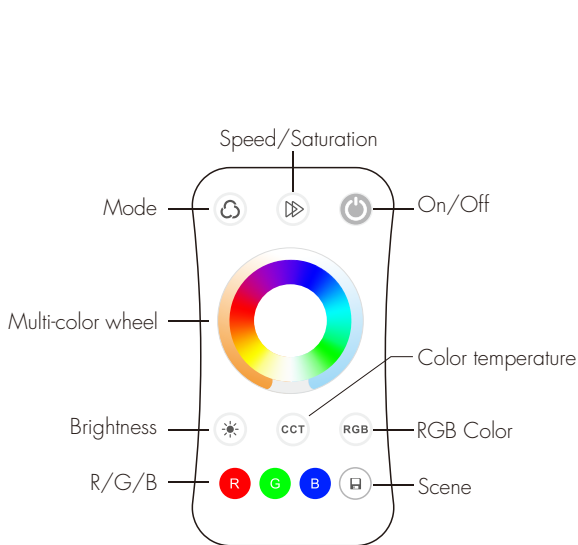
RGB+CCT Remote

RGB+CCT LED strip

Note:
Long press match key for 10s, set RGB and CCT light can not be on at the same time.
Long press match key for 15s, set RGB and CCT light can be on at the same time.
above operation will also restore the factory setting.

Light on/off fade time set:
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.

Remote Key Function

Speed/Saturation
Mode
On/Off
Multi-color wheel
Color temperature
Brightness
RGB Color
R/G/B
Scene

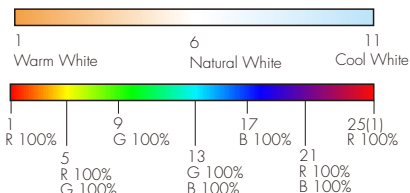**On/Off**: Short press turn on/off light.
Mode: Switch dynamic mode, short press run the next mode, long press 2s run mode cycle.
Speed/Saturation:
For dynamic mode, adjust mode speed, short press 10 levels, long press 2s get the default speed.
For static RGB color, adjust saturation, namely change current static color to mixed white slowly, short press 11 levels, long press 1-6s for continuous 256 levels adjustment.

Brightness: Adjust brightness, short press 11 levels, long press 2s get max or min brightness.
at the same time, multi-color wheel become brightness wheel.

CCT: Adjust color temperature, short press 11 levels, long press adjust WW+CW brightness.
at the same time, multi-color wheel become color temperature wheel.
Adjust color temperature by WW/CW channel.

| 1 Warm White | 6 Natural White | 11 Cool White |

RGB: Adjust static RGB color,
short press get 24 kinds static color.
at the same time, multi-color wheel become RGB color wheel.

| 1 R 100% | 9 G 100% | 17 B 100% | 25(1) R 100% |
| 5 R 100% G 100% | 13 G 100% B 100% | 21 R 100% B 100% | |

R/G/B: Short press get red, green or blue color directly.
long press 1-6s adjust R/G/B brightness continuously to achieve millions of colors.
Scene: Short press recall the scene, long press 2s save the current color into 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

Match:
Short press match key,
immediately press on/off key on 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 of the receiver, 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 of the receiver, 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.

Dynamic Mode List

No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Color temperature smooth	10	White fade in and out

Dual Color Control

CH4=Warm white LED   CH5=Cool white LED

Each channel can supply up to 72W(@24V) and white balance can be controlled as such:

Color temperature	Cool white	Neutral white	Warm white
Power distribution	CH4=0W,CH5=72W	CH4=72W,CH5=72W	CH4=72W,CH5=0W