

Single Color LED Controller Kit

Model No.: V1-W+ RM1

1 channels constant voltage/6key remote/Step-less dimming/Wireless remote 30m distance



Feature

- 1 channel constant voltage single color LED mini RF controller.
- 3A per channel, output connect with 5 meters single color LED strip, max output power 75W.
- Adopt 2.4GHz wireless technology, remote distance up to 30m.
- 4096 levels 0-100% dimming smoothly without any flash.

Technical Parameters

RM1 LED Remote Input and Output	
Output signal	RF(2.4GHz)
Working voltage	3VDC(CR2032)
Working current	< 5mA
Standby current	< 2μA
Standby time	2 years
Remote distance	30m[Barrier-free space]

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

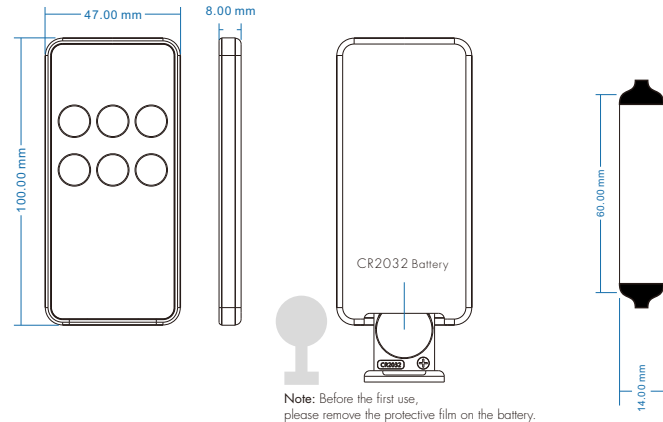
Safety and EMC	
EMC standard (EMC)	EN301 489,EN 62479
Safety standard(IVD)	EN60950
Radio Equipment(RED)	EN300 328
Certification	CE,EMC,IVD,RED

V1-W LED Receiver Input and Output	
Input voltage	12-24VDC
Output voltage	12-24VDC
Output power	Max. 75W
Output type	Constant voltage

Dimming data	
Input signal	RF 2.4GHz
Control distance	30m(Barrier-free space)
Dimming gray scale	4096 [2^12] levels
Dimming range	0 - 100%
Dimming curve	Logarithmic
PWM Frequency	500Hz (default)







Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity

Dimension



Remote function

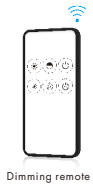
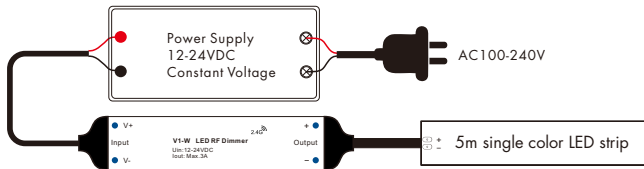


-  On/Off
-  Turn off light after 30s, long press 2s will turn off light after 60s.
-  50% brightness
-  10% brightness for small night light
-  Brightness+
-  Brightness-

Brightness+/-:

Short press 10 levels, long press 1-6s for continuous 256 levels adjustment.

Wiring diagram



Match guide

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.

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

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