

Dual Color LED Mini RF Controller

Model No.: V2-M

2 channel constant voltage/Max 5A output/Stepless dimming/Wireless remote control



FC CE RoHS LVD RED

Features

- 2 channel constant voltage dual color LED mini RF controller.
- 2.5A per channel, output connect with 5 meters dual color LED strip.
- Match with Skydance's 2.4G single zone or multiple zone dual color remote control.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- Synchronize on multiple number of controllers.

Technical Parameters

Input and Output	
Input voltage	12-24VDC
Output voltage	12-24VDC
Output current	2.5A/CH, Total Max. 5A
Output type	Constant voltage

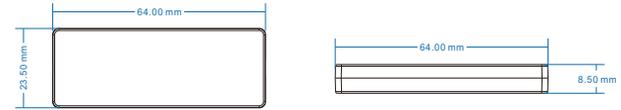
Environment	
Operation temperature	Ta: -30°C ~ +55°C
Case temperature (Max.)	Tc: +85°C
IP rating	IP20

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

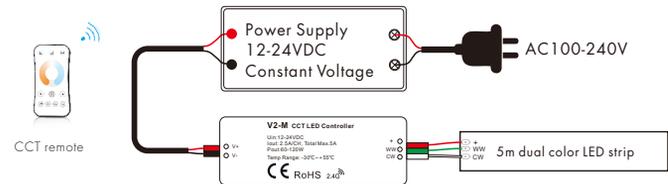
Dimming data	
Input signal	RF 2.4GHz
Control distance	30m(Barrier-free space)
Dimming gray scale	4096 (2^12) levels
Dimming range	0-100%
Dimming curve	Linear
PWM Frequency	1000Hz (default)

Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity Over heat

Dimension



Wiring Diagram



Match Remote Control

Match:

Switch off the power, then switch on power again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 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 (single zone remote) or zone key (multiple zone remote) 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

Application notes

1. All the receivers in the same zone.



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. Metals and other metal materials will reduce the range. Strong signal sources such as WiFi routers and microwave ovens will affect the range.

We recommend for indoor applications that receiver placements should be no further apart than 15m.

2. Each receiver(one or more) in a different zone, like zone 1, 2, 3 or 4.



Dual color control

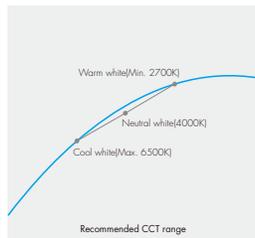
CH1=Warm white LED

CH2=Cool white LED

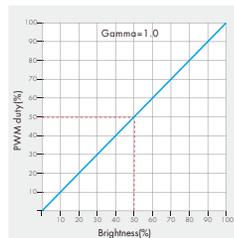
Each channel can supply up to 120W(@24V) and white balance can be controlled as such:

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



Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
Wrong color	1. Wrong connection of WW/CW wires.	1. Reconnect WW/CW wires.
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. Rematch the remote.