V2-M

Dual Color LED Mini RF Controller



- 2 channel constant voltage dual color LED mini RF controller.
- 2.5A per channel, output connect with 5 meters dual color LED strip.
- \bullet Match with RF 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.
- Light on/off fade time 3s selectable.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- Synchronize on multiple number of controllers.



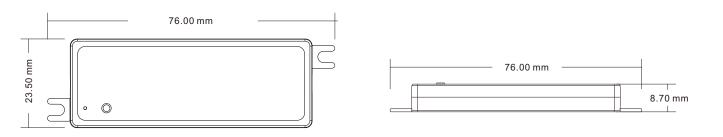


2 channel constant voltage / Max 5A output / Step-less dimming / Wireless remote control

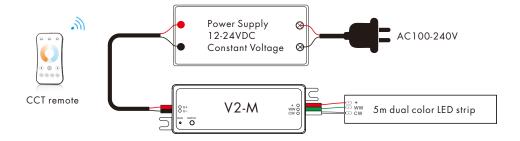
Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	12-24VDC	Input signal	RF 2.4GHz	FAAC :	ETSI EN 301 489-1 V2.2.3
Output voltage	12-24VDC	Control distance	30m(Barrier-free space)	— EMC standard (EMC)	ETSI EN 301 489-17 V3.2.4
Output current	2.5A/CH, Total Max. 5A	Dimming gray scale	4096 (2^12) levels	Safety standard	EN 62368-1:2020+A11:202
Output type	Constant voltage	Dimming range	0-100%	Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Environment		Dimming curve	Linear	Certification	CE,EMC,RED
Operation temperature	Ta: -30°C ~ +55°C	PWM frequency	2000Hz (default)	Package	
Case temperature (Max.)	Tc: +85°C	Warranty		Size	L90x H130mm
IP rating	IP20	Warranty	5 years	Gross weight	0.021kg

Dimension



Wiring Diagram



Light on/off fade time

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.

User Manual Ver 2.0.2 Page 1

Match Remote Control

End user can choose the suitable match/delete ways. Three options are offered for selection:

Use the controller's Match key

Match:

Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) 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. 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 of the receiver, then switch on power. 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.

Another way to match:

The receiver is power on for five consecutive times, the LED strip light start blinking slowly for 10s, Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) on the remote. The light blinks 3 times means match is successful.

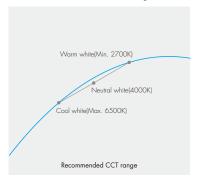
Dual color control

WW=Warm white LED CW=Cool white LED

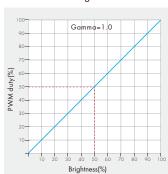
Each channel can supply up to 120W(@24V) and white balance can be controlled as such:

Color temperature	Cool white	Neutral white	Warm white
Power distribution	WW=0W,CW=120W	WW=60W,CW=60W	WW=120W,CW=0W





Dimming curve



Malfunctions analysis & troubleshooting

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

Installation Precautions

- 1. The products shall not be stacked, the distance should be \geq 20cm, so as not to affect lifespan of the products due to poor heat dissipation.
- 2. The product shall not be installed close to the switching power supply with an interval of ≥ 20cm to avoid radiation interference of the switching power supply.
- 3. The installation height shall be ≥ 1 m from the floor to avoid shortening the remote control distance due to too weak reception signal.
- 4. The products are not allowed to be close to or covered by metal objects, with an interval of ≥ 20cm to avoid signal attenuation and shorten the remote distance.
- 5. Avoid installation at the corner of the wall or the corner of the beam, with an interval of ≥ 20cm to avoid signal interference.