

Single Color LED Mini RF Controller

Model No.: V1-M, V1-M(D)

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



V1-M
Cable In /Cable Out Version



V1-M(D)
DC Female Jack In /DC Male Jack Out Version

FC CE RoHS emc LVD RED

Model List

Model	Photo	Power Connector	LED Connector
V1-M		Red/Black Cable 10cm	Red/Black Cable 10cm
V1-M(D)		5.5mm DC Female Jack	5.5mm DC Male Jack

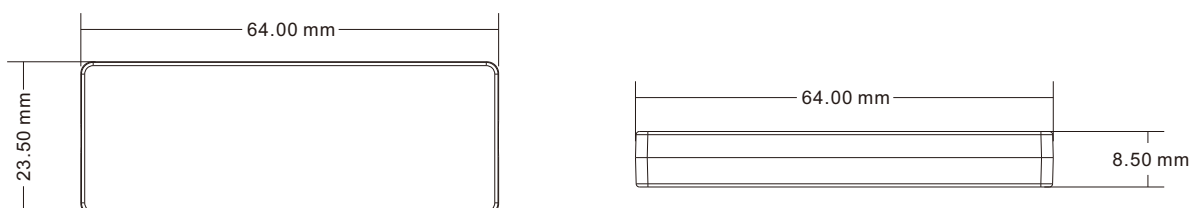
Features

- 1 channel constant voltage single color LED mini RF controller.
- 5A output, connect with 5 meters single color LED strip.
- Match with RF 2.4G single zone or multiple zone dimming 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.

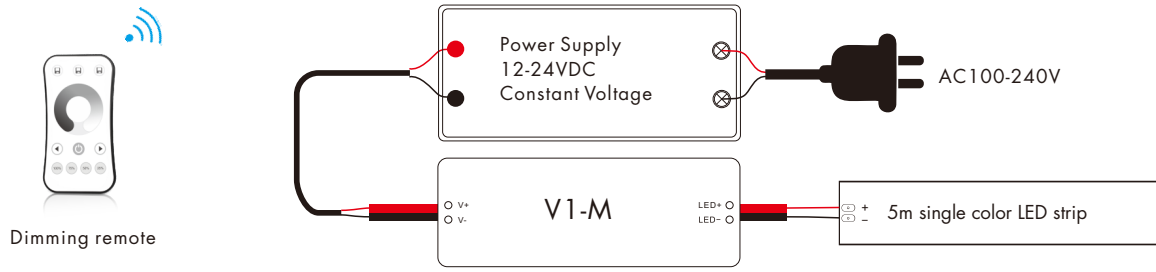
Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	12-24VDC	Input signal	RF 2.4GHz	EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Output voltage	12-24VDC	Control distance	30m(Barrier-free space)	Safety standard(LVD)	EN 62368-1:2020+A11:2020
Output current	Max. 5A	Dimming gray scale	4096 (2 ¹²) levels	Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Output type	Constant voltage	Dimming range	0-100%	Certification	CE,EMC,LVD,RED
Environment		Dimming curve	Logarithmic	Package	
Operation temperature	Ta: -30°C ~ +55°C	PWM Frequency	500Hz (default)	Size	L90x H130mm
Case temperature (Max.)	Ta: +85°C	Warranty	5 years	Gross weight	0.021kg

Dimension



Wiring Diagram



Match Remote Control

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.

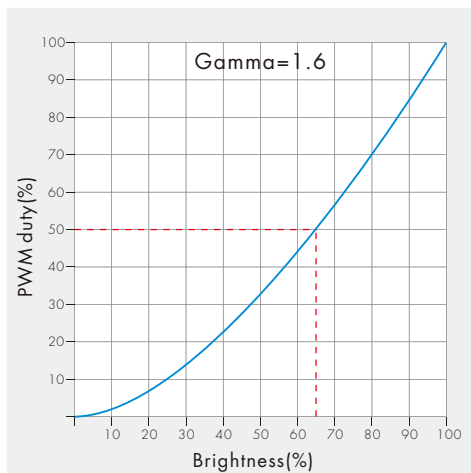
Another way to match:

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.

Dimming Curve



Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	<ol style="list-style-type: none"> No power. Wrong connection or insecure. 	<ol style="list-style-type: none"> Check the power. Check the connection.
No response from the remote	<ol style="list-style-type: none"> The battery has no power. Beyond controllable distance. The controller did not match the remote. 	<ol style="list-style-type: none"> Replace battery. Reduce remote distance. Re-match the remote.

Installation Precautions

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