# 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 C CE RoHS emc LVD RED

#### Model List

Model	Photo	Power Connector	LED Connector
V1-M	Unit 13/24/DC Unit 13/24/DC Unit 13/24/DC Unit 13/24/DC Unit 13/24/DC Unit 13/24/DC Unit 13/24/DC Unit 13/24/DC UNIT 10/24/DC UNIT 10/24/DC	Red/Black Cable 10cm	Red/Black Cable 10cm
V1-M(D)	V1-M LED Dimmer Unit 13/24/DC Went Marka Went Marka With Warks With Warks Warks With Warks Warks Warks With Warks Warks With Warks Warks With Warks Wark	5.5mm DC Female Jack	5.5mm DC Male Jack

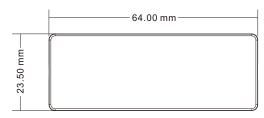
#### Features

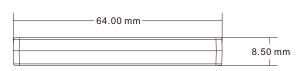
- 1 channel constant voltage single color LED mini RF controller.
- 5A output, connect with 5 meters single color LED strip.
- Match with RF 2.4G single zone or multiple zone dimming remote control.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any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

# **Technical Parameters**

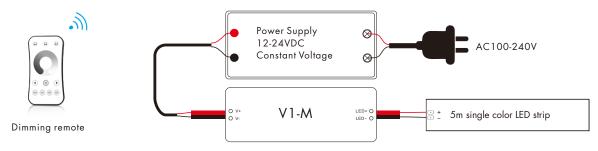
Input and Output		Dimming data	Dimming data		Safety and EMC	
Input voltage	12-24VDC	Input signal	RF 2.4GHz		ETSI EN 301 489-1 V2.2.3	
Output voltage	12-24VDC	Control distance	30m(Barrier-free space)	EMC standard (EMC)	ETSI EN 301 489-17 V3.2.4	
Output current	Max. 5A	Dimming gray scale	4096 (2^12) levels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

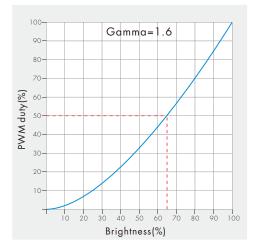
Delete:

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> <li>No power.</li> <li>Wrong connection or insecure.</li> </ol>	<ol> <li>Check the power.</li> <li>Check the connection.</li> </ol>
No response from the remote	<ol> <li>The battery has no power.</li> <li>Beyond controllable distance.</li> <li>The controller did not match the remote.</li> </ol>	<ol> <li>Replace battery.</li> <li>Reduce remote distance.</li> <li>Re-match the remote.</li> </ol>

#### Installation Precautions

1. The products shall not be stacked, the distance should be ≥ 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  $\geq$  20cm to avoid the radiation interference of the switching power supply.

3. The installation height shall be ≥ 1m 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  $\geq$  20cm to avoid signal attenuation and shorten the remote control distance.

5. Avoid installation at the corner of the wall or the corner of the beam, with an interval of  $\geq$  20cm to avoid signal interference.