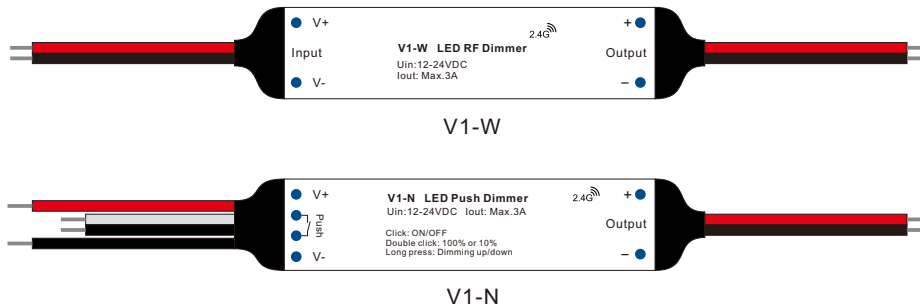


# Single Color LED Mini RF Controller



Model No.: V1-W, V1-N

1 channel constant voltage/Max 75W/Step-less dimming/Wireless remote control



FC CE RoHS EMC LVD RED

## Features

- 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.
- Match with Skydance's 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	
Input voltage	12-24VDC
Output voltage	12-24VDC
Output power	Max. 75W
Output type	Constant voltage




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

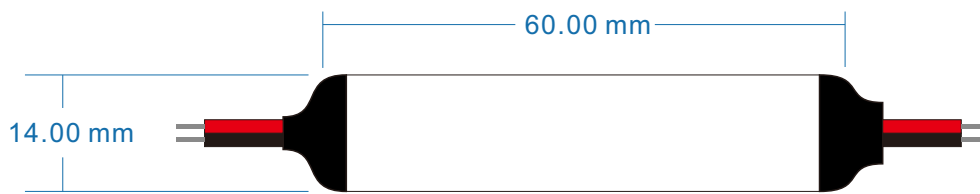
Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity

Dimming data	
Input signal	RF 2.4GHz
Control distance	30m
Dimming level	4096 levels
Dimming range	0 - 100%
Dimming curve	Logarithmic
PWM Frequency	500Hz (default)

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

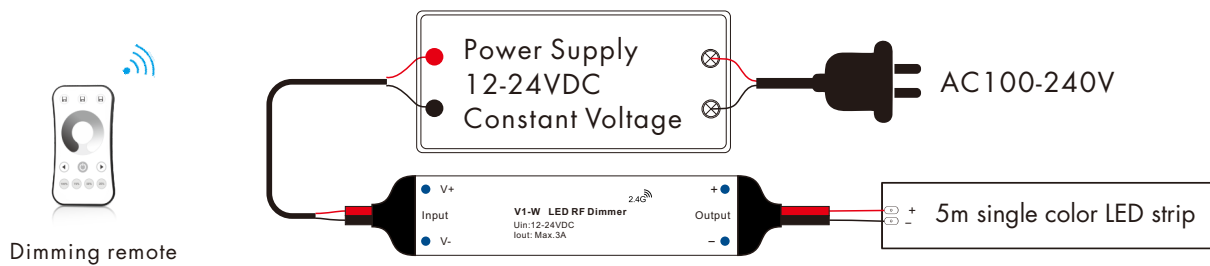
Model	Photo	Power Connector	LED Connector	Function
V1-W		Red/Black Cable 10cm	Red/Black Cable 10cm	Only RF remote
V1-W(D)		5.5mm DC Female Jack	5.5mm DC Male Jack	Only RF remote
V1-N		Red/Black Cable 10cm	Red/Black Cable 10cm	Push-Dim RF remote

## Dimension

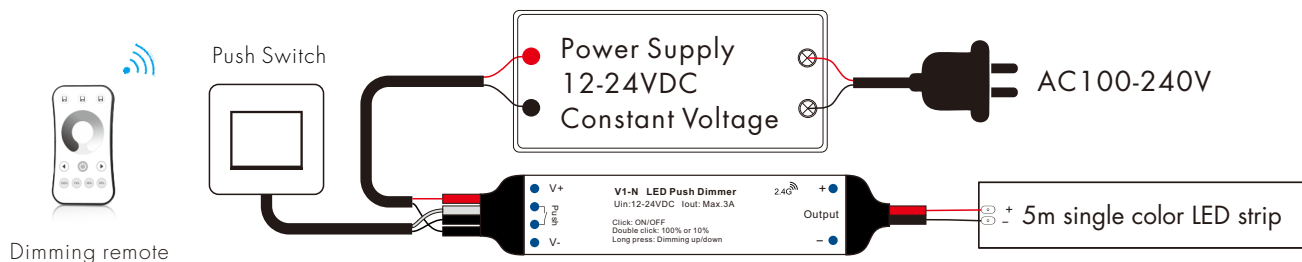


## Wiring Diagram

### • V1-W



### • V1-N



### Push Dim function:

Click	ON/OFF
Double Click	Turn on at 100% or 10%(night light) and vice-versa
Long press(>1s) from OFF	Dimming UP/DOWN
Long press(>1s) from ON	Dimming UP/DOWN

## Match Remote Control

Match:

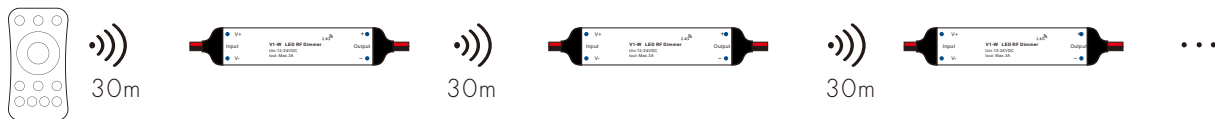
Switch off the power, then switch on power again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

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.

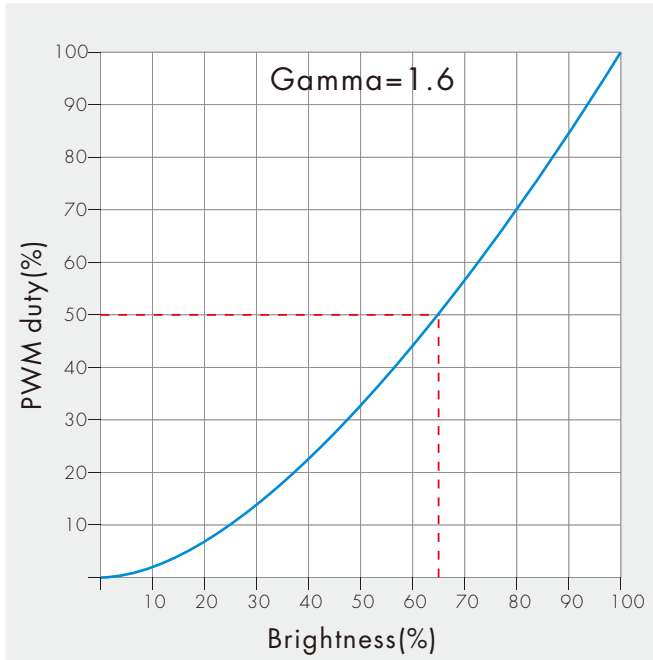
We recommend for indoor applications that receiver placements should be no further apart than 1.5m.

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



RF remote

## Dimming Curve



## Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	<ol style="list-style-type: none"> <li>1. No power.</li> <li>2. Wrong connection or insecure.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the power.</li> <li>2. Check the connection.</li> </ol>
No response from the remote	<ol style="list-style-type: none"> <li>1. The battery has no power.</li> <li>2. Beyond controllable distance.</li> <li>3. The controller did not match the remote.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace battery.</li> <li>2. Reduce remote distance.</li> <li>3. Re-match the remote.</li> </ol>