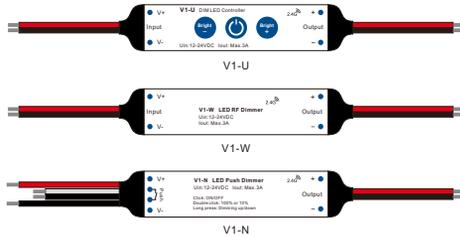


Single Color LED Mini RF Controller

Model No.: V1-U, V1-W, V1-N

1 channel constant voltage/Max 75W/Stepless dimming/Wireless remote control



FC CE RoHS 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 kindomleds 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.

| Model | Photo | Power Connector | LED Connector | Function |
|---------|-------|----------------------|----------------------|--------------------|
| V1-U | | Red/Black Cable 10cm | Red/Black Cable 10cm | 3 key RF remote |
| V1-U(D) | | 5.5mm DC Female Jack | 5.5mm DC Male Jack | 3 key RF remote |
| 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 |

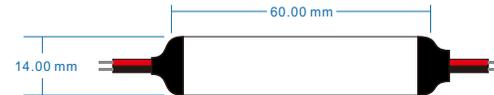
Technical Parameters

| 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 |

Dimension



Wiring Diagram

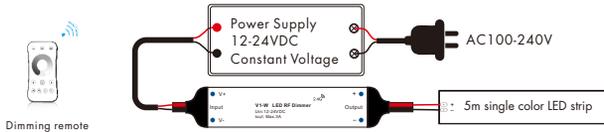
• V1-U



Key function:

- Turn on or off light.
- Brightness -, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.
- Brightness +, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.

● V1-W



Dimming remote

● V1-N



Dimming remote

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 (two match ways)

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

Use the controller's Power key (Only for V1-U)

Match:
Long press power key 2s, immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote.

Delete:
Press and hold power key for 10s to delete all match, The light blinks 5 times means all matched remotes were deleted.

Use Power Restart

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.

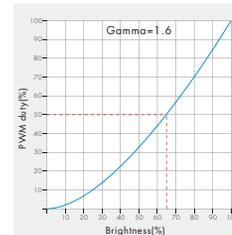
Receiver placement may offer up to 30m communication distance. Metals and other metal materials will reduce the range. Strong signal sources such as WiFi routers and microwave ovens will affect the range.

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.



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. |
| 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. |