

## Dual Color LED Mini RF Controller

Model No.: V2-U, V2-W, V2-N

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



FC CE RoHS LVD RED

### Features

- 2 channel constant voltage dual color LED mini RF controller.
- 1.5A per channel, output connect with 5 meters dual color LED strip, max output power 75W.
- Match with Kindomleak 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.
- 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
V2-U		Red/Black Cable 10cm	3-color Flat Cable 10cm	3 key RF remote
V2-W		Red/Black Cable 10cm	3-color Flat Cable 10cm	Only RF remote
V2-N		Red/Black Cable 10cm	3-color Flat Cable 10cm	Push-Dim RF remote

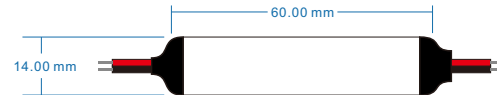
### Technical Parameters

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

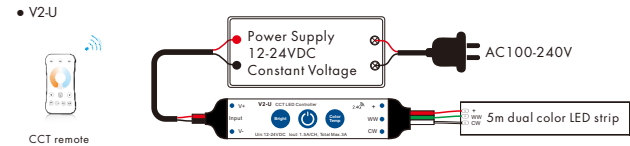
Dimming data	
Input signal	RF 2.4GHz
Control distance	30m
Dimming level	4096 levels
Dimming range	0-100%
Dimming curve	Linear
PWM Frequency	500Hz (default)

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



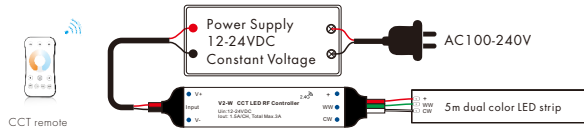
### Wiring Diagram



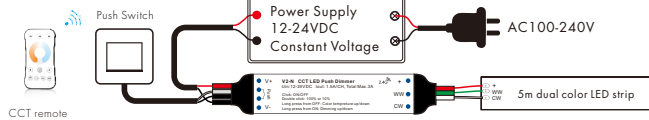
Key function:

- Turn on or off light.
- Adjust brightness, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.
- Adjust color temperature, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.

• V2-W



• V2-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	Color temperature UP/DOWN (turn off and turn on to return dimming)
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 V2-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.



Dual color control

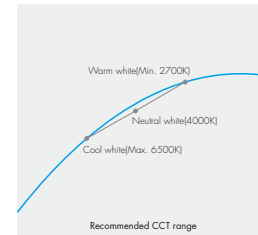
CH1=Warm white LED

CH2=Cool white LED

Each channel can supply up to 75W(@24V) and white balance can be controlled as such:

Color temperature	Cool white	Neutral white	Warm white
Power distribution	CH1=0W,CH2=75W	CH1=37W,CH2=37W	CH1=75W,CH2=0W

Linear dual color tuning



Dimming curve

