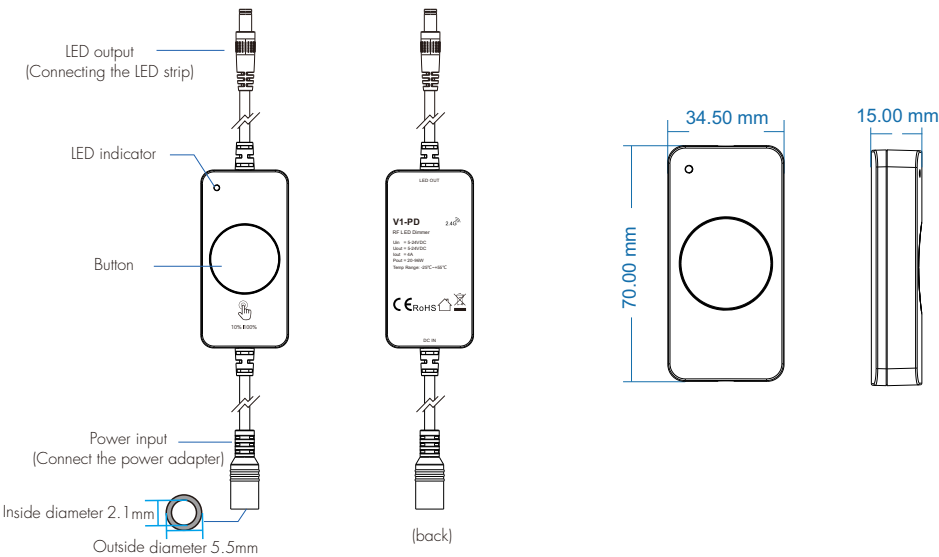# V1-PD
One-Button RF LED Dimmer

RF DIM

Feature

- Use to control monochrome constant voltage LED strips.
- One button for on/off, and brightness adjustment.
- 4096 levels 0-100% dimming smoothly without any flash.
- Operate with LED indicator light.
- Match with RF 2.4G single zone or multiple dimming remote control.
- Used as RF remote control to output RF 2.4G signal,
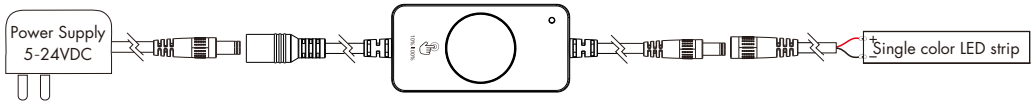 remote control of other RF LED controllers or RF dimming LED drivers.

CE RoHS

Technical Parameters

Input and Output

Input voltage	5-24VDC
Output voltage	5-24VDC
Output current	4A
Output power	20-96W
PWM Frequency	2000Hz
Dimming curve	Logarithmic

Warranty and Protection

Warranty	5 years
Protection	Reverse polarity, Short circuit, Over heat

Dimming data

Input signal	One-button + RF 2.4GHz
Control distance	30m(Barrier-free space)
Dimming gray scale	4096 levels
Dimming range	1 - 100%

Environment

peration temperature	Ta: -25 ℃ ~ +55 ℃
Case temperature (Max.)	Tc: +85 ℃
IP rating	IP20

Safety and EMC

EMC standard	EN IEC 55015 EN IEC 61547 ETSI EN 301 489-1/-3
Safety standard	EN 61347-1/-2
Radio equipment	ETSI EN 300 440
Certification	CE RoHS

Package

Size	110x57x28mm(LxWxH)
Gross weight	0.048kg

Mechanical Structures and Installations

- LED output (Connecting the LED strip)
- LED indicator
- Button
- Power input (Connect the power adapter)
- Inside diameter 2.1mm
- Outside diameter 5.5mm

V1-PD RF LED Dimmer
(back)

34.50 mm
15.00 mm
70.00 mm

Wiring Diagram

Power Supply 5-24VDC → Single color LED strip

Button Function

Short press: Turn on or off light.
Double click: Switch 10% or 100% brightness.
Long press (1-6s): Continuous brightness adjustment, dimming range 1-100%.

V1-PD Match RF Remote Controller (Use Power Restart)

Match:
Switch off the power, then switch on power, repeat 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, repeat 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.

V1-PD Used as RF Remote Controller

The V1-PD can be matched with one or more RF LED controllers/RF dimming drivers to remotely control other fixtures with one-button operation.
For example, two V1-PD controllers are matched with each other for synchronized control.
End user can choose the suitable match/delete ways.

Use the controller's Match key

Match:
Short press the controller/power supply's match key, immediately press the button.
The LED indicator fast flash a few times means match is successful.

Delete:
Press and hold the controller/power supply's match key 5s, The LED indicator fast flash a few times means all matched remotes were deleted.

Use Power Restart

Match:
Switch off the power of the controller, then switch on power, repeat again.
Immediately short press the button 3 times.
The light blinks 3 times means match is successful.

Delete:
Switch off the power of the controller, then switch on power, repeat again.
Immediately short press the button 5 times.
The light blinks 5 times means all matched remotes were deleted.

Dimming Curve

Gamma=1.6

PWM duty(%) vs Brightrness(%)