V1-KD

LED Knob Dimmer

Features

● Used for control single color constant voltage LED strips.

● Short press the knob to turn light on/off, rotate to adjust brightness.

● 4096 levels dimming smoothly without any flash.

● LED indicates the status during operation.

● Match with RF 2.4G single zone
   or multiple zone dimming remote control optional.

● Can be used as RF remote control, output RF 2.4G signal,
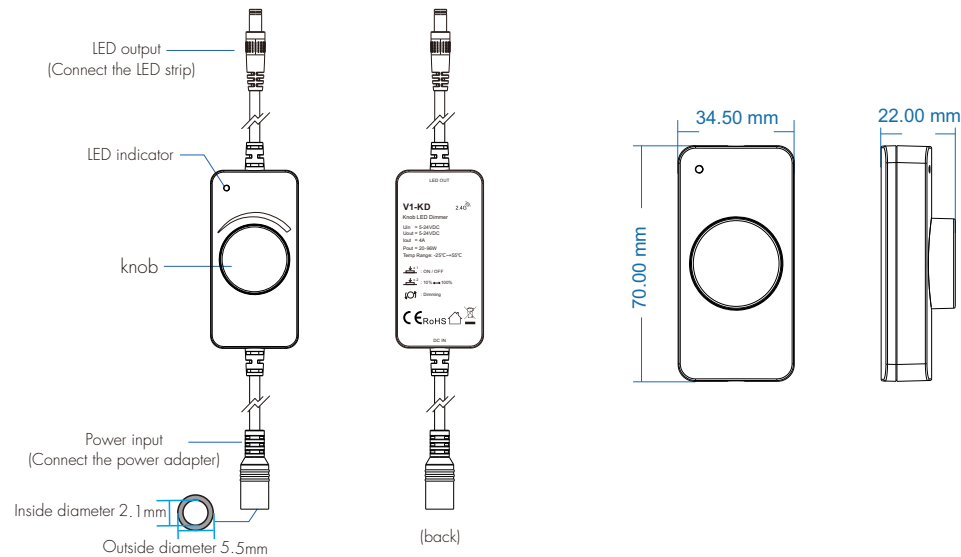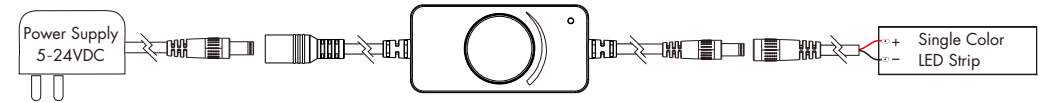   remote control other RF LED controller or RF dimming driver.

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, over-heat, short circuit

Dimming data

Input signal	Knob + RF 2.4GHz
Control distance	30m(Barrier-free space)
Dimming gray scale	4096 levels
Dimming range	0-100%

Environment

Operation 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	0.054kg

Mechanical Structures and Installations

LED output
(Connect the LED strip)

LED indicator

knob

V1-KD
Knob LED Dimmer
Uin = 5-24VDC
Uout = 5-24VDC
Iout = 4A
Pout = 20-96W
Temp Range:-25℃~+55℃

ON / OFF

10% and 100%

Dimming

CE RoHS

DC IN

Power input
(Connect the power adapter)

Inside diameter 2.1mm

Outside diameter 5.5mm

34.50 mm

70.00 mm

22.00 mm

(back)

Wiring Diagram

Power Supply
5-24VDC

+ Single Color
− LED Strip

Knob Function

Short press: Turn on or off the light.
Double click: Switch between 10% and 100% brightness.
Rotation: Adjust brightness from 0% to 100% (1 turn, 21 levels).

V1-KD 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-KD Used as RF Remote Controller

The V1-KD can be matched with one or more RF LED controllers/RF dimming drivers to remotely control other fixtures by knob.
For example, two V1-KD 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's match key,
immediately press the knob.
The LED indicator fast flash a few times means match is
successful.

Delete:
Press and hold the controller'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 knob 3 times.
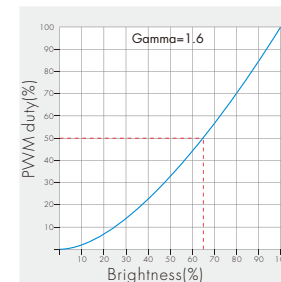The light blinks 3 times means match is successful.

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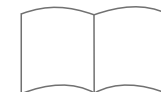The light blinks 5 times means all matched remotes were deleted.

Dimming Curve

Gamma=1.6

PWM duty(%)

Brightness(%)

Packing List

LED Dimmer
1 pcs

User Manual
1 pcs

DC Extension Cable
1 pcs