

V1-KF

4 Knob 4 Channel Dimming LED RF Controller

RF DIM

- 4 channel dimming constant voltage LED RF controller, can also be used as a 4 zone dimming RF remote.
- 4 knob dimming, digital numeric display and easy key operation.
- Match with RF 2.4G 4 channel dimming remote control optional.
- 256 levels 0-100% dimming smoothly without any flash.
- PWM frequency 1000/2000/4000/8000Hz selectable.
- Logarithmic or linear dimming curve selectable.

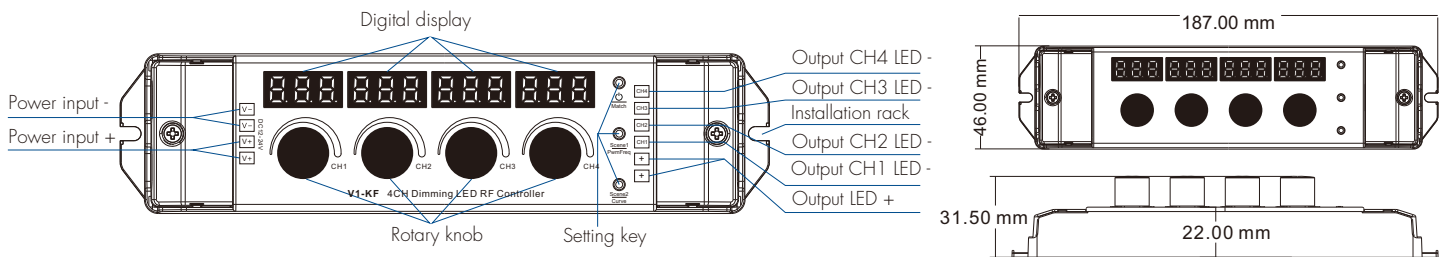


CE RoHS emc RED

Technical Parameters

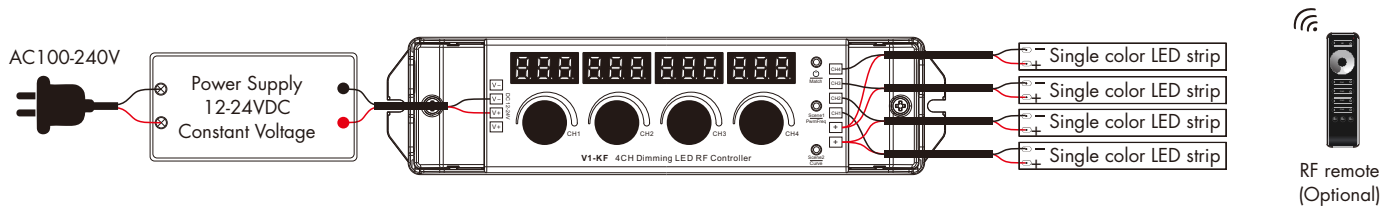
Input and Output		Dimming data		Safety and EMC	
Input voltage	12-24VDC	Input signal	Knob + Key + RF 2.4GHz	EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Input current	16.5A	Control distance	30m(Barrier-free space)	Safety standard	EN 61348-1:2015+A1:2021 EN 61348-2-13:2014+A1:2017
Output voltage	4 x (12-24)VDC	Dimming gray scale	256 levels	Radio Equipment (RED)	ETSI EN 300 328 V2.2.2
Output current	4CH,4A/CH	Dimming range	0-100%	Certification	CE, EMC, RED
Output power	4 x (48-96)W	Dimming curve	Logarithmic / linear	Warranty and Protection	
Output type	Constant voltage	PWM Frequency	1000/2000/4000/8000Hz	Warranty	5 years
Environment		Package		Protection	Reverse polarity
Operation temperature	Ta: -30°C ~ +55°C	Size	L190 x W50 x H38mm		
Case temperature (Max.)	Tc: +85°C	Gross weight	0.154kg		

Mechanical Structure and Installation

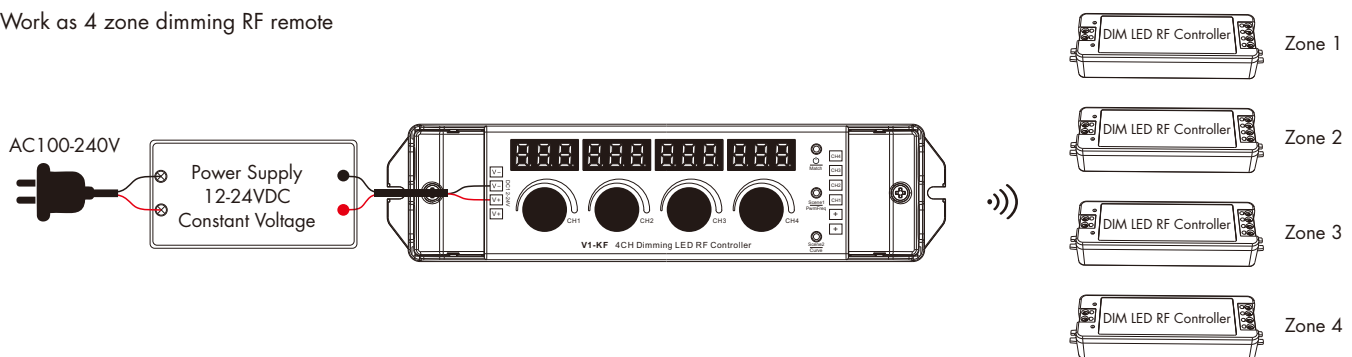


Wiring Diagram

- Work as 4 channel dimming LED controller



- Work as 4 zone dimming RF remote



Knob and Key Operation

4 knob dimming:



CH1 Brightness
(000-100)



CH2 Brightness
(000-100)



CH3 Brightness
(000-100)



CH4 Brightness
(000-100)

3 key setting:



Short press: Turn on or turn off all 4 channel / zone light. When light is off, display "OFF".

Long press 5s: Enter RF remote matching state, display "RLS",

within 5s, press any zone key of the 4 channel dimming RF remote, display "RLO", match is successful,

Long press 10s: Until display "RLE", delete all matched RF remote.

Long press 15s: Restore factory default parameter, display "RES".



Short press: Recall the scene 1, display "1-C".

Long press 2s: Save current state into scene 1, display "1-d".

Long press 5s: Prepare for setup output PWM frequency, then short press Scene1 key to switch between 1000Hz("F10"), 2000Hz("F20"), 4000Hz("F40") or 8000Hz("F80"). Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video). Long press Scene1 key for 2s or timeout 10s, quit output PWM frequency setting.



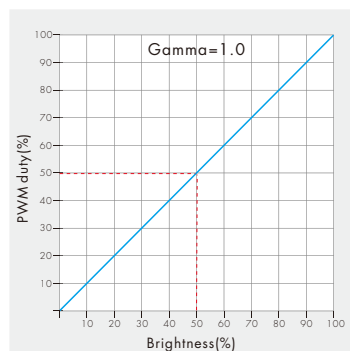
Short press: Recall the scene 2, display "2-C".

Long press 2s: Save current state into scene 2, display "2-d".

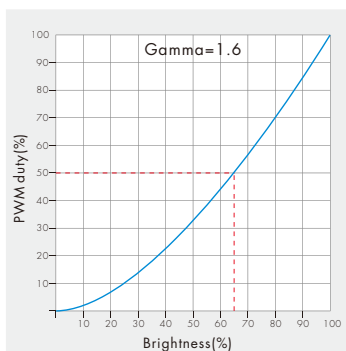
Long press 5s: Prepare for setup output brightness curve, then short press Scene2 key to switch between linear curve("C-L") or logarithmic curve("C-E"). Long press Scene2 key for 2s or timeout 10s, quit output brightness curve setting.

Dimming Curve:

Linear dimming curve



Logarithmic dimming curve



4 Knob Controller Work as 4 Zone Dimming RF Remote

When used as a 4-zone dimming RF remote, each zone can be matched with one or more single-color dimming LED RF controllers.

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

It is recommended to use the match key to match and debug all the controlled products before installation.

Only when multiple controllers in the same zone are located in the same circuit and can cut off the power at the same time,

or when it is inconvenient to use the match key during maintenance due to the installation location, it is recommended to use the power-on match method.

Use the controller's Match key

Match:

Short press match key of receiver, immediately rotate the knob.

The LED indicator fast flash a few times means match is successful.

Delete:

Press and hold match key of the receiver for 5s to delete all match,

The LED indicator fast flash a few times means all matched RF remotes were deleted.

Use Power Restart

Match:

Switch off the power of the receiver, then switch on power, repeat again.

Immediately rotate knob 3 times.

The light blinks 3 times means match is successful.

Delete:

Switch off the power of the receiver, then switch on power, repeat again.

Immediately rotate knob 5 times.

The light blinks 5 times means all matched remotes were deleted.