

# 4 Knob RGB/RGBW LED RF Controller

Model No.: V4-K

4 Channels /Wireless remote control/Four PWM frequency/Linear or logarithmic dimming/Numeric display

## Features

- RGB/RGBW constant voltage LED RF controller, can also be used as a RGB/RGBW RF remote.
- 4 knob dimming, digital numeric display and easy key operation.
- Match with RF 2.4G single zone or multiple zone RGB/RGBW remote control optional.
- 256 levels 0-100% dimming smoothly without any flash.
- Built in 10 dynamic mode, include jump or gradual change style.
- PWM frequency 1000/2000/4000/8000Hz selectable.
- Logarithmic or linear dimming curve selectable.

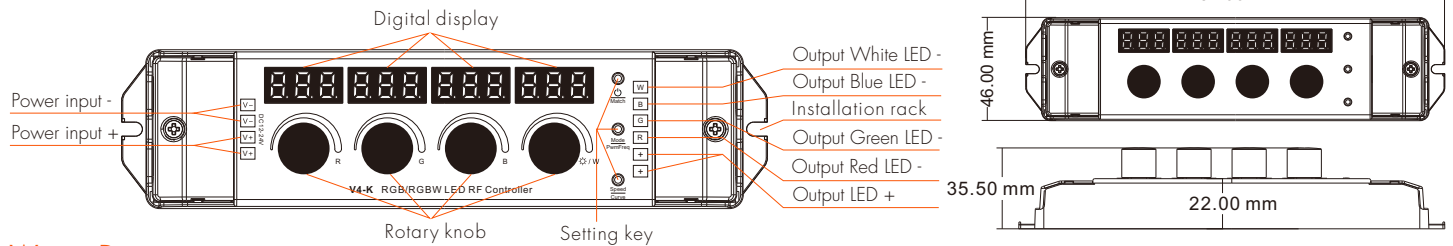


FC CE RoHS EMC LVD RED

## Technical Parameters

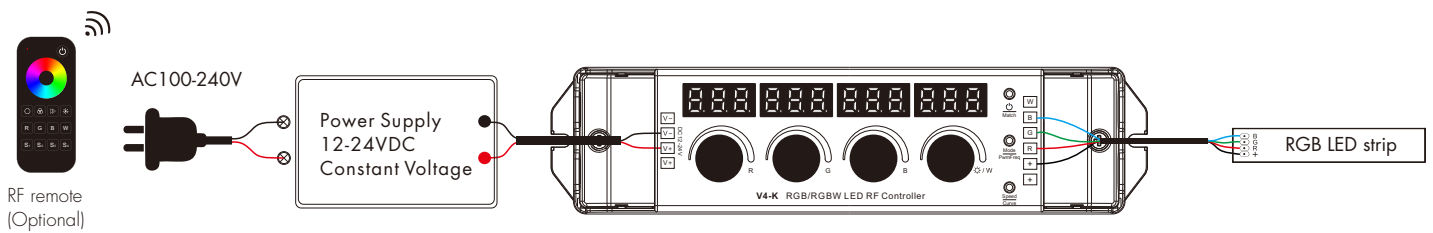
Input and Output		Dimming data		Safety and EMC	
Input voltage	12-24VDC	Input signal	Knob + Key + RF 2.4GHz	EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Input current	16.5A	Control distance	30m(Barrier-free space)	Safety standard(LVD)	EN 62368-1:2020+A11:2020
Output voltage	4 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,LVD,RED
Output power	4 x (48-96)W	Dimming curve	Logarithmic or linear	Package	
Output type	Constant voltage	PWM Frequency	1000/2000/4000/8000Hz	Size	L190 x W50 x H38mm
Environment		Warranty and Protection		Gross weight	0.154kg
Operation temperature	Ta: -30°C ~ +55°C	Warranty	5 years		
Case temperature (Max.)	Ta: +85°C	Protection	Reverse polarity		

## Mechanical Structures and Installations

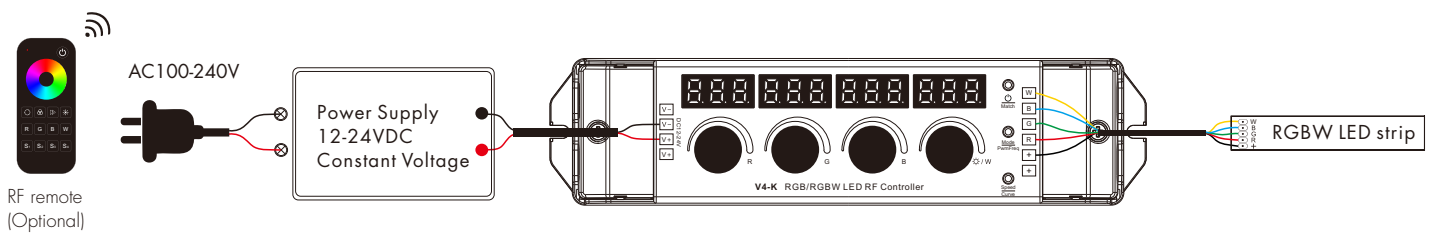


## Wiring Diagram

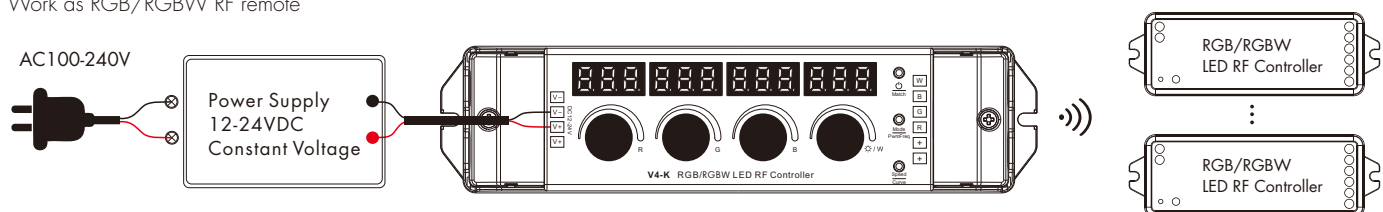
- Work as RGB LED controller



- Work as RGBW LED controller

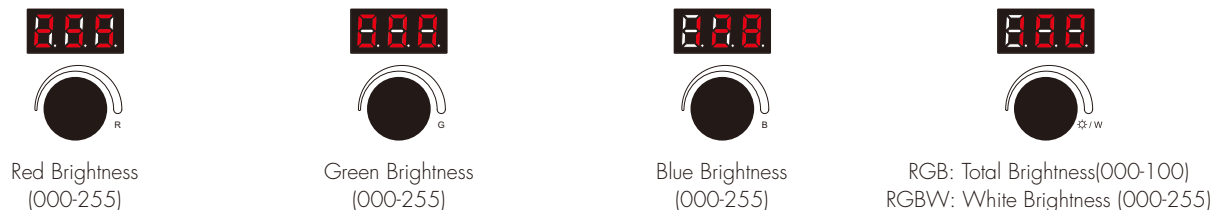


- Work as RGB/RGBW RF remote



## Operation

### 4 knob dimming



### 3 key setting



Match

**Short press:** Turn on or turn off the light. When light is off, display "OFF".

**Long press 5s:** Enter RF remote matching state, display "RLS", within 5s, press on/off key or zone key of the RGBW 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(Default RGBW mode), display "RES".



Mode PwmFreq

**Short press:** Switch between 10 dynamic change mode (P01~P10).

**Long press 5s:** Prepare for setup output PWM frequency, then short press mode 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 Mode key for 2s or timeout 10s, quit output PWM frequency setting.



Speed Curve

**Short press:** Set mode speed, switch between 1-10 level speed (S-1, S-9, S-F).

**Long press 5s:** Prepare for setup output brightness curve, then short press speed key to switch between linear curve("C-L") or logarithmic curve("C-E").

Long press Speed key for 2s or timeout 10s, quit output brightness curve setting.

**RGB/RGBW light setting:** Press and hold the "Match" and "Speed" key for 2s to switch between RGB or RGBW light type.

The rightmost digital tube show "CH3" (RGB) or "CH4"(RGBW) momentarily.

### RGB/RGBW dynamic mode list

No.	Name	No.	Name
P01	RGB jump	P06	RGB fade in and out
P02	RGB smooth	P07	Red fade in and out
P03	6 color jump	P08	Green fade in and out
P04	6 color smooth	P09	Blue fade in and out
P05	Yellow cyan purple smooth	P10	White fade in and out

### 4 Knob Controller Work as RGB/RGBW RF remote

This 4 knob controller work as RGB/RGBW RF remote can match with one or multiple RGB/RGBW LED RF controller.

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

#### Use the controller's Match key

Match:

Short press match key of receiver, immediately press on/off key on the knob controller. 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:

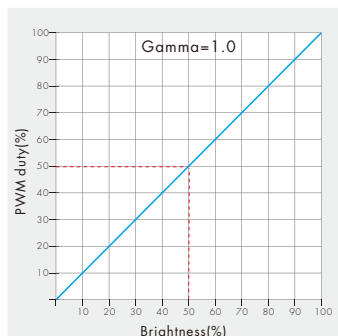
Switch off the power of the receiver, then switch on power, repeat again. Immediately short press on/off key 3 times on the knob controller. The light blinks 3 times means match is successful.

Delete:

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

### Dimming curve setting

#### Linear dimming curve



#### Logarithmic dimming curve

