# 4 Knob RGBW LED RF Controller

# Model No.: V4-K

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



### Features

FC C CE ROHS MAC LVD RED

- RGBW constant voltage LED RF controller, can also be used as a RGBW RF remote.
- 4 knob dimming, digital numeric display and easy key operation.
- Match with RF 2.4G single zone or multiple zone 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 250/500/2000/8000Hz selectable.
- Logarithmic or linear dimming curve selectable.

## Technical Parameters

Input and Output		Dimming data	
Input voltage	12-24VDC	Input signal	Knob + Key + RF 2.4GHz
Input current	16.5A	Control distance	30m(Barrier-free space)
Output voltage	4 x (12-24)VDC	Dimming gray scale	256 levels
Output current	4CH,4A/CH	Dimming range	O - 1 OO%
Output power	4 × (48-96)W	Dimming curve	Logarithmic or linear
Output type	Constant voltage	PVVM Frequency	250/500/2000/8000H
Environment			

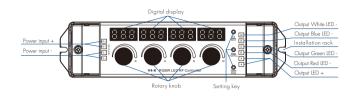
Environment		
Operation temperature	Ta: -30 °C ~ +55 °C	
Case temperature (Max.)	Tc:+85°C	
IP rating	IP20	

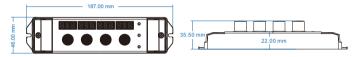
Warranty and Protectio	n
Warranty	5 years
Protection	Reverse polarity

Input signal	Knob + Key + RF 2.4GHz	
Control distance	30m(Barrier-free space)	
Dimming gray scale	256 levels	
Dimming range	0-100%	
Dimming curve	Logarithmic or linear	
PWM Frequency	250/500/2000/8000Hz	
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Safety and EMC				
EMC standard (EMC) EN	EN301 489,EN 62479			
Safety standard(LVD) Et	√60950			
Radio Equipment(RED) EN	EN300 328			
Certification	E,EMC,IVD,RED			

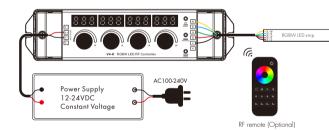
# Mechanical Structures and Installations



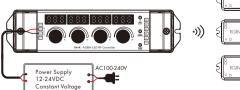


# Wiring Diagram

Work as RGBW LED controller



• Work as RGBW RF remote





### Operation

#### 4 knob dimming



Red Brightness (000-255)



Green Brightness



Blue Brightness





White Brightness (000-255)

#### 3 key setting



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, display "RES".



Speed

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

Long press 5s: Prepare for setup output PWM frequence, then short press mode key to switch between 250Hz["FO2"), 500Hz["F05"), 2000Hz["F20") or 8KHz["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 frequence setting.

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( $^{*}Ct^{*}$ ) or logarithmic curve( $^{*}Ct^{*}$ ).

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

#### RGBW dynamic mode list

No.	Name	No.	Name
PO1	RGB jump	P06	RGB fade in and out
PO2	RGB smooth	P07	Red fade in and out
PO3	6 color jump	PO8	Green fade in and out
PO4	6 color smooth	P09	Blue fade in and out
PO5	Yellow cyan purple smooth	P10	White fade in and out

## 4 Knob Controller Work as RGBW RF remote

This 4 knob controller work as RGBW RF remote can match with one or multiple RGBW LED RF controller. End user can choose the suitable match/delete ways. Two options are offered for selection:

Match.

Delete:

Use Power Restart

### 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.

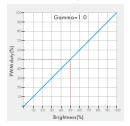
#### Delete:

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 RE remotes were deleted.

### Dimming curve setting

#### Linear dimming curve



#### Logarithmic dimming curve

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

immediately short press on/off key 3 times on the knob controller.

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

immediately short press on/off key 5 times on the knob controller.

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

The light blinks 3 times means match is successful.

