



iskydance V3-K 4 Knob RGB LED RF Controller User Manual

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iskydance V3-K 4 Knob RGB LED RF Controller



Product Information

The V3-K 4 Knob RGB LED RF Controller is a constant voltage LED RF controller that can also be used as an RGB RF remote. It features 4 knob dimming, digital numeric display, and easy key operation. It can be matched with an RF 2.4G single zone or multiple zone RGB remote control. It has 256 levels of 0-100% dimming smoothly without any flash. It has a built-in 10 dynamic mode, including jump or gradual change style. The PWM frequency is selectable at 1000/2000/4000/8000Hz, and the logarithmic or linear dimming curve is selectable.

The controller has a 5-year warranty and protection against reverse polarity. It meets EMC standard (EMC), safety

standard (LVD), and radio equipment (RED) certification. It has a user manual version of 1.0.2 and an IP20 rating.

Product Usage Instructions

The V3-K 4 Knob RGB LED RF Controller can be used as an RGB LED controller or an RGB RF remote. The wiring diagram for both configurations is provided in the user manual.

As an RGB LED controller:

1. Connect the power supply of 12-24VDC constant voltage to the power input and power input+ terminals of the controller.
2. Connect the R, G, and B terminals of the controller to the corresponding terminals of the RGB LED strip.
3. Use the 4 knobs to adjust the brightness of red, green, blue, or all colors together. The range of brightness adjustment is from 000 to 255 for each color and from 000 to 100 for total brightness.
4. Use the match key for various functions such as turning on/off the light, entering RF remote matching state, deleting all matched RF remote, and restoring factory default parameter.
5. Use the mode key to switch between 10 dynamic change modes and to prepare for setting up output PWM frequency. The PWM frequency can be selected at 1000Hz (F10), 2000Hz (F20), 4000Hz (F40), or 8000Hz (F80). Press and hold the mode key for 2 seconds or wait for a timeout of 10 seconds to quit output PWM frequency setting.

As an RGB RF remote:

1. Follow the same steps as for an RGB LED controller to connect the power supply and the RGB LED strip to the controller.
2. Use an optional RF remote to control the RGB LED strip.

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

Features

- RGB constant voltage LED RF controller, can also be used as a RGB RF remote.
- 4 knob dimming, digital numeric display and easy key operation.
- Match with RF 2.4G single zone or multiple zone RGB 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.

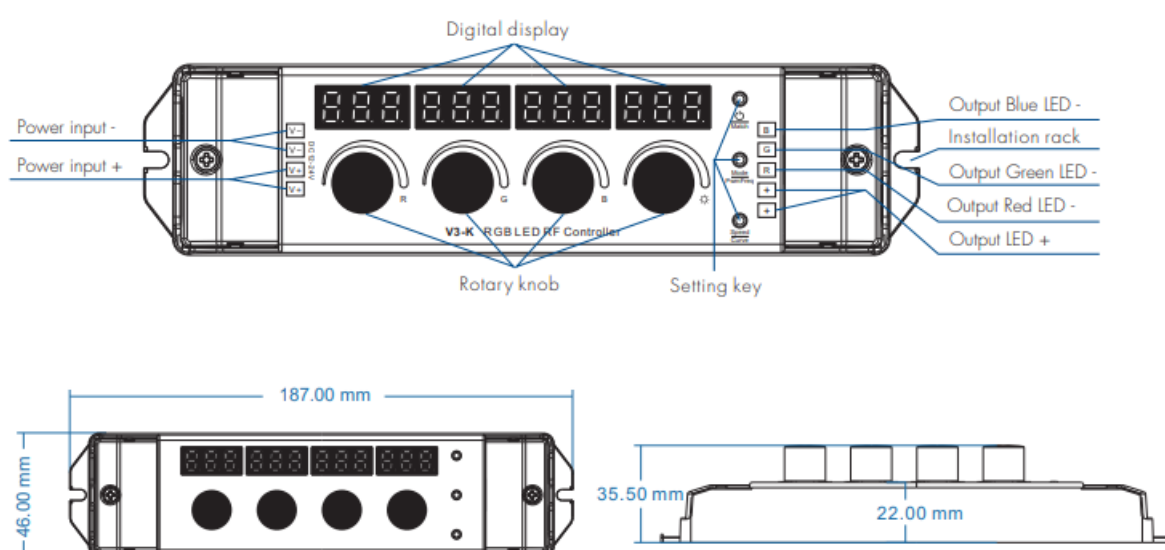
Technical Parameters

Input and Output	
Input voltage	12-24VDC
Input current	12.5A
Output voltage	3 x (12-24)VDC
Output current	3CH,4A/CH
Output power	3 x (48-96)W
Output type	Constant voltage

Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity

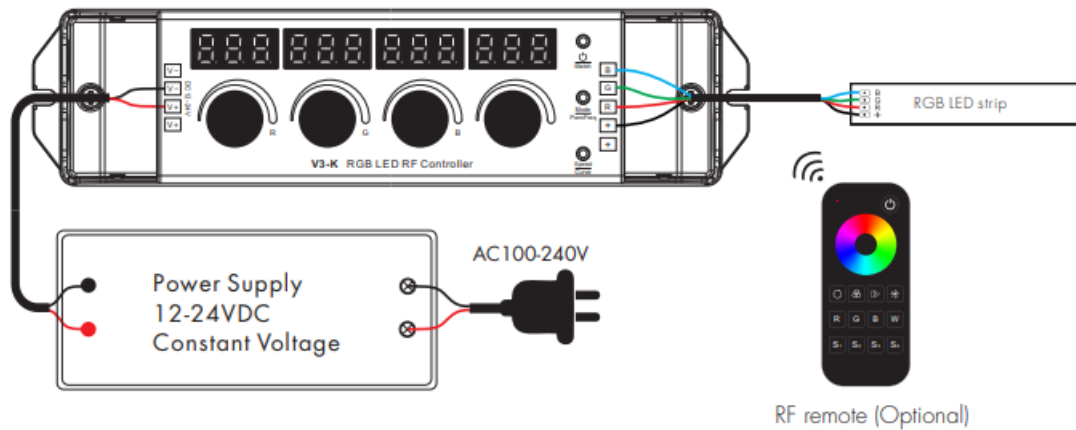
Dimming data	
Input signal	Knob + Key + RF 2.4GHz
Control distance	30m(Barrier-free space)
Dimming gray scale	256 levels
Dimming range	0 -100%
Dimming curve	Logarithmic or linear
PWM Frequency	1000/2000/4000/8000Hz

Mechanical Structures and Installations

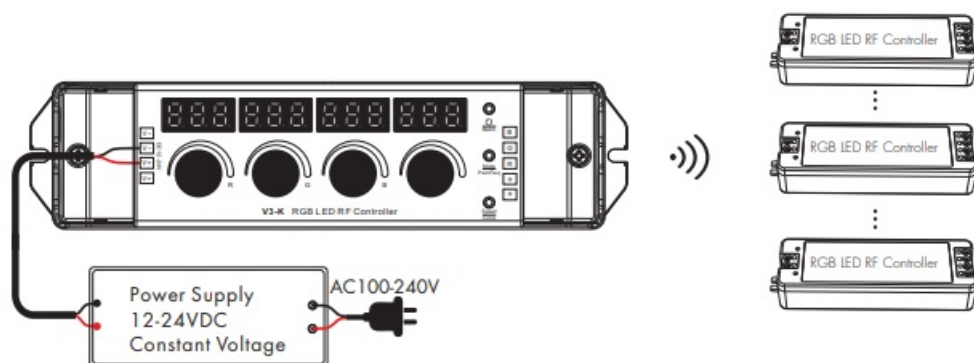


Wiring Diagram

Work as RGB LED controller

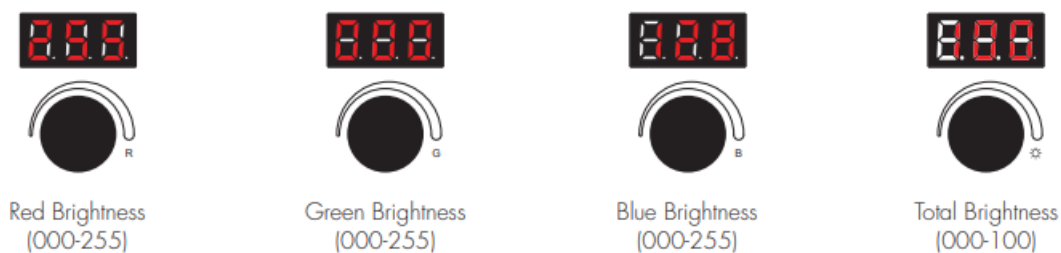


Work as RGB RF remote



Operation

4 knob dimming



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 RGB 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:** 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.



- 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 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 RF remote

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

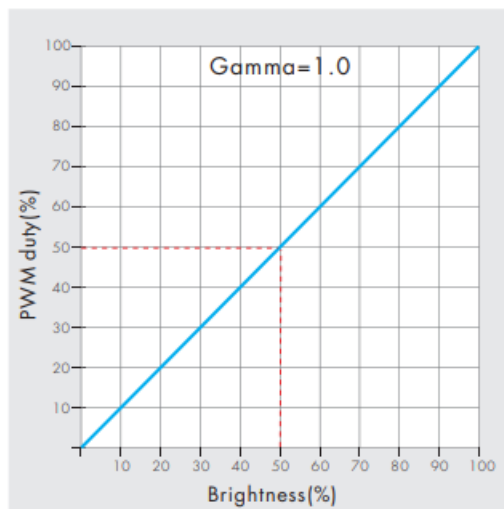
Delete:

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

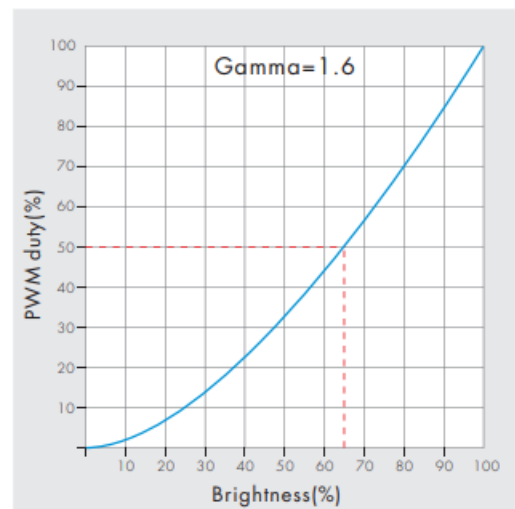
Immediately short press on/off key 5 times on the knob controller. The light blinks 5 times means all matched remotes were deleted.

Dimming curve setting

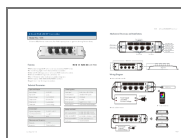
Linear dimming curve



Logarithmic dimming curve



Documents / Resources



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V3-K 4 Knob RGB LED RF Controller, V3-K, 4 Knob RGB LED RF Controller, RGB LED RF Controller, LED RF Controller, RF Controller, Controller