

# V3-Q(D), V3-Q(U)

RGB

## 2-Button RGB Constant Voltage LED Controller



CE RoHS

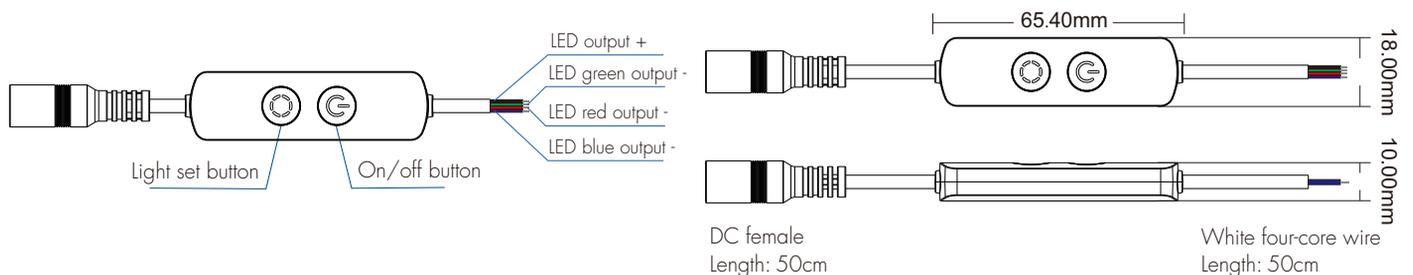
- 2-button RGB LED controller with 3-channel constant voltage output.
- The buttons support on/off light, adjust brightness, color, dynamic mode and dynamic speed.
- 4096 levels dimming smoothly without any flash.
- Light on fade time 1s, light off fade time 2s.
- 2000Hz or 8000Hz PWM frequency can be set.
- Apply to table lamps, wall lamps, bedside lamps and so on.

### Technical Parameters

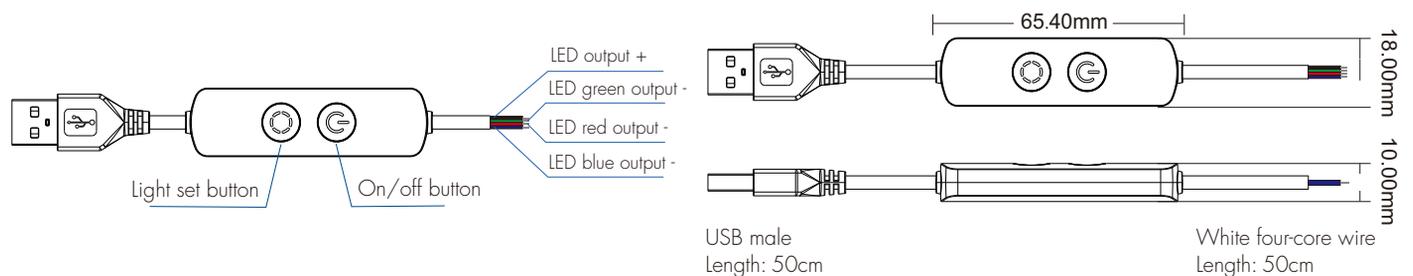
Input and Output		Dimming data		Safety and EMC	
Input voltage	V3-Q(D): 5-24VDC V3-Q(U): 5VDC	Dimming gray scale	4096 levels	EMC standard	EN IEC 55015 EN IEC 61547
Output voltage	V3-Q(D): 5-24VDC V3-Q(U): 5VDC	Dimming curve	Linear	Safety standard	EN 61347-1/-2 EN 62493
Output current	3CH, 1A/CH	PWM Frequency	2000Hz/8000Hz	Certification	CE RoHS
Output power	V3-Q(D): 15-72W V3-Q(U): 15W	<b>Environment</b>		<b>Package</b>	
Output type	Constant Voltage	Operation temperature	Ta: -20°C ~ +55°C	Size	L114 x W38 x H26mm
<b>Warranty and Protection</b>		Case temperature (Max.)	Tc: +85°C	Gross weight	0.044kg
Warranty	5 years	IP rating	IP20		
Protection	Reverse polarity				

### Mechanical Structures and Installations

V3-Q(D):

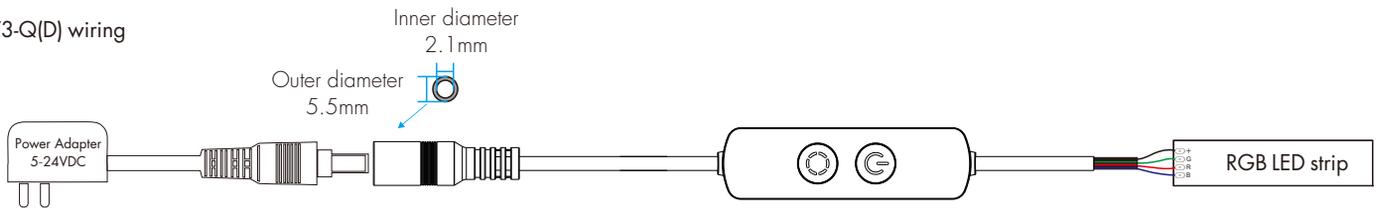


V3-Q(U):

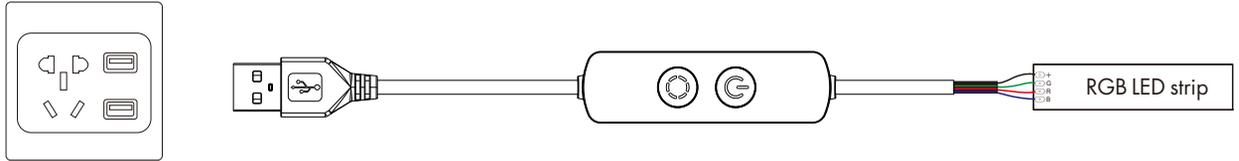


## Wiring Diagram

- V3-Q(D) wiring



- V3-Q(U) Wiring (Output connected to 5V LED strip)



**Note:**

1. The LED strip connected to the V3-Q(D) output must match the power adapter output voltage.
2. V3-Q(U) supports USB socket, mobile phone adapter, computer USB port power supply.

## Button Function



**Short press:** Turn on/off the light.  
**Long press (1-6s):** Continuous brightness adjustment, dimming range 5-100%.



**Short press:** Enter static mode, and switch 8 static colors (red - orange - yellow - green - cyan - blue - purple - white).

**Double click:** Enter dynamic mode and switch 2 dynamic modes (6 color jump, 6 color fade).

The 6 color are in the order of red - yellow - green - cyan - blue - purple.

**Long press:** In static mode, long press for 1-6s, adjust the color saturation continuously, i.e., the current static color to white gradient transition.

In dynamic mode, long press for 2s to sequentially switch 5 levels of dynamic change speed.

The 6 color fade speed is switched in the order of 1s, 2s, 5s, 10s, 30s;

the 6 color jump speed is switched in the order of 0.3s, 0.5s, 1s, 2s, 5s.

Every time you enter dynamic mode, the default fade/jump speed starts from 1s.

### Set PWM frequency (factory default 2000Hz):

Press and hold  key and  key at the same time for 2s to set the PWM frequency to 2000Hz and the output LED blinks 1 time.

Press and hold  key and  key at the same time for 5s to set the PWM frequency to 8000Hz and the output LED blinks 2 times.