

# V5-KD

## RGB+CCT LED Knob Controller

### Features

- Used for control RGB+CCT LED strips.
- Short press the knob to turn light on/off, rotate to adjust RGB color, color temperature and brightness.
- 4096 levels dimming smoothly without any flash.
- LED indicates the status during operation.
- Built-in 10 dynamic modes, including jumps and fades.
- Match with RF 2.4G single zone or multiple zone RGB+CCT remote control optional.
- Can be used as RF remote control, output RF 2.4G signal, remote control other RF RGB+CCT LED controller or RF dimming driver.

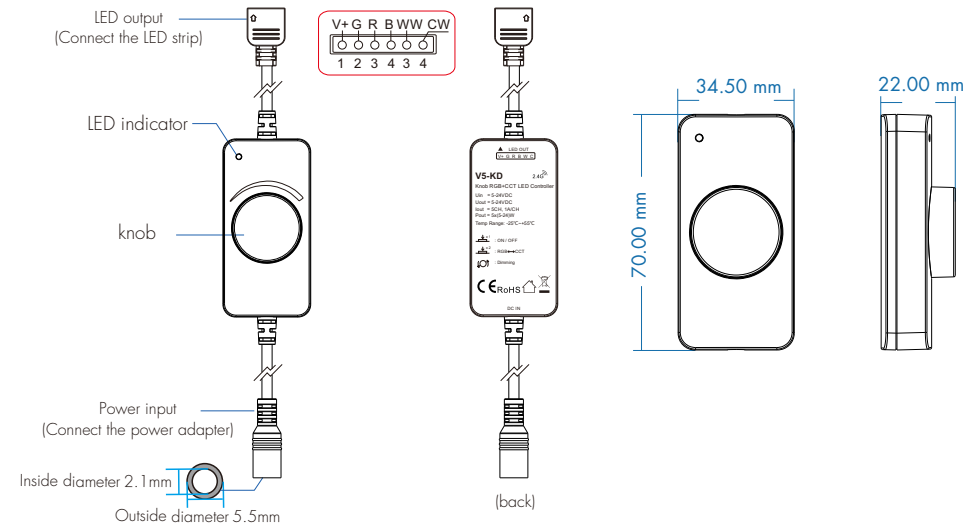


CE RoHS

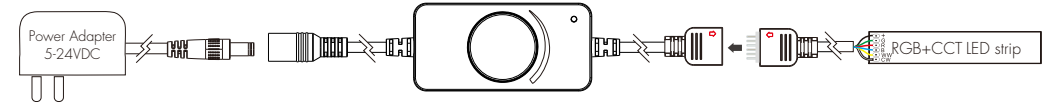
### Technical Parameters

| Input and Output        |                             | Dimming data            |                                | Safety and EMC  |                                                      |
|-------------------------|-----------------------------|-------------------------|--------------------------------|-----------------|------------------------------------------------------|
| Input voltage           | 5-24VDC                     | Input signal            | Knob + RF 2.4GHz               | EMC standard    | EN IEC 55015<br>EN IEC 61547<br>ETSI EN 301 489-1/-3 |
| Output voltage          | 5-24VDC                     | Control distance        | 30m(Barrier-free space)        | Safety standard | EN 61347-1/-2                                        |
| Output current          | 5CH, 1A/CH                  | Dimming gray scale      | 4096 (2 <sup>12</sup> ) levels | Radio equipment | ETSI EN 300 440                                      |
| Output power            | 5x(5-24)W                   | Dimming range           | 0-100%                         | Certification   | CE RoHS                                              |
| PWM frequency           | 2000Hz (default)            |                         |                                |                 |                                                      |
| Dimming curve           | Logarithmic                 |                         |                                |                 |                                                      |
| Warranty and Protection |                             | Environment             |                                | Package         |                                                      |
| Warranty                | 5 years                     | Operation temperature   | Ta: -25°C ~ +55°C              | Size            | 110x57x28mm(LxWxH)                                   |
| Protection              | Reverse polarity, over-heat | Case temperature (Max.) | Tc: +85°C                      | Gross weight    | 0.054kg                                              |
|                         |                             | IP rating               | IP20                           |                 |                                                      |

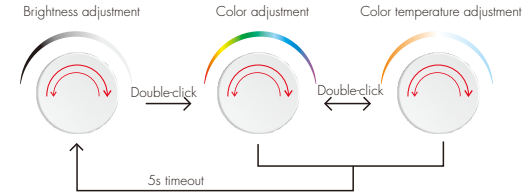
### Mechanical Structures and Installations



### Wiring Diagram



### Knob Function



**Short press:** Turn on or off the light.

**Double click:** Switch between color light and color temperature light in sequence. at the same time enter knob adjust color (red - yellow - green - cyan - blue - purple) or color temperature state. After 5 seconds of no operation, it automatically returns to the knob to adjust the brightness state.

**Rotation:** When knob adjust brightness, rotate clockwise to increase the brightness, rotate counterclockwise to decrease the brightness (1 turn, 21 levels). When knob adjust color, rotate clockwise to change from red to purple, rotate counterclockwise to change from purple to red (3 turns, 60 levels). When knob adjust color temperature, rotate clockwise to increase the color temperature, rotate counterclockwise to decrease the color temperature (1 turn, 21 levels). Adjust the brightness by default.

### V5-KD Match RF Remote Control (power-on match method)

**Match:**  
Switch off the power, then switch on power.  
Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote.  
The light blinks 3 times means match is successful.

**Delete:**  
Switch off the power, then switch on power.  
Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote.  
The light blinks 5 times means all matched remotes were deleted.

### V5-KD Used as RF Remote Control

The V5-KD can be matched with one or more RF RGB+CCT LED controllers/RF dimming driver to remotely control other fixtures by knob.  
For example, two V5-KD controllers are match with each other for synchronized control.  
Two match/deletion methods are available.

#### Use the controller's Match key

**Match:**  
Short press the controller's match key, immediately short press the knob.  
The LED indicator fast flash a few times means match is successful.  
**Delete:**  
Press and hold the controller's match button for 5 s.  
The LED indicator fast flash a few times means all matched remotes were deleted.

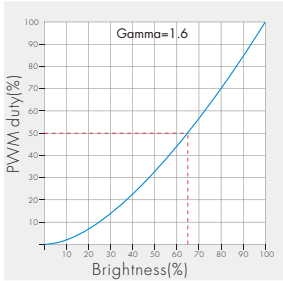
#### Use Power Restart

**Match:**  
Switch off the power of the controller, then switch on power, repeat again.  
Immediately press the knob briefly and 3 times quickly.  
The light blinks 3 times means match is successful.  
**Delete:**  
Switch off the power of the controller, then switch on power, repeat again.  
Immediately press the knob briefly and 5 times quickly.  
The light blinks 5 times means all matched remotes were deleted.

Dynamic Change Mode (called up by RF remote control)

| No. | Name                     | No. | Name                  |
|-----|--------------------------|-----|-----------------------|
| 1   | RGB jump                 | 6   | RGB fade in and out   |
| 2   | RGB smooth               | 7   | Red fade in and out   |
| 3   | 6 color jump             | 8   | Green fade in and out |
| 4   | 6 color smooth           | 9   | Blue fade in and out  |
| 5   | Color temperature smooth | 10  | White fade in and out |

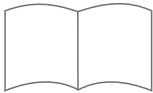
Dimming Curve



Packing List



LED Controller  
1 pcs



User Manual  
1 pcs



Extension Cable  
(12.5cm)  
1 pcs