UV1-KS a010089



- Single channel constant voltage LED Rotary dimmer.
- Match with RF 2.4G single zone or multiple zone dimming remote control optional.
- 0-100% dimming smoothly without any flash.
- Logarithmic or linear dimming curve selectable.
- PWM frequency 500Hz, 2KHz, 8KHz or 16KHz selectable.
- Over-heat / Short circuit / Reverse protection, recover automatically.
- Light on/off fade time 3s selectable.



C€ RoHS emc

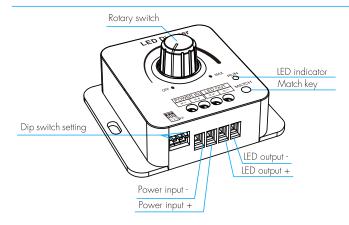


Technical Parameters

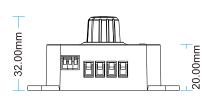
Input and Output		Dimming data		
Input voltage	12-48VDC	Input signal	Rotary knob + RF 2.4GHz	
Input current	8.5A	Control distance	30m(Barrier-free space)	
Output voltage	12-48VDC	Dimming gray scale	256levels	
Output current	8A@12-24V	Dimming range	0-100%	
	6A@36-48V	- Dimming curve	Logarithmic or linear	
Output power	96W@12V 192W@24V 216W@36V 288W@48V	PWM Frequency	500Hz, 2KHz, 8KHz, 16KHz	
Output type	Constant voltage	Package		
Warranty		Size	L70xW60xH40mm	
Warranty	5 years	Gross weight	0.059kg	

Safety and EMC				
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4			
Safety standard	EN 62368-1:2020+A11:2020			
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2			
Certification	CE,EMC			
Environment				
Operation temperature	Ta: -20°C ~ +55°C			
Case temperature (Max.)	Tc: +85°C			
IP rating	IP20			

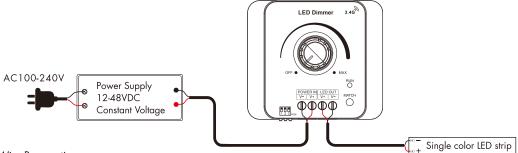
Mechanical Structures and Installations







Wiring Diagram



Wire Preparation:

- 1. The wiring can be solid or stranded with a cross-sectional area of 0.5 to 1.5 mm². Conventional 1 mm² can withstand 10A output current.
- 2. When wiring is installed, the terminals must be tightened. If they are not tightened, the contact point resistance will be too high and the terminals will easily burn due to heat when used at full load for a long time.



Note: The output power of a constant voltage power supply should be at least 1.2 times that of the output load (light strip), otherwise the full power output of the load can easily cause automatic flickering or shaking of the light.



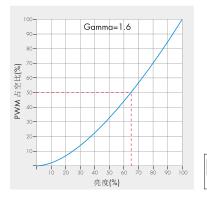
PWM frequency setting



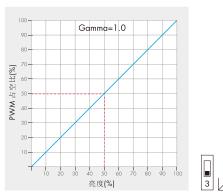
We can select four PWM frequency: 500Hz, 2kHz, 8kHz or 16kHz. Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).

Dimming curve setting

Logarithmic dimming curve







Match Remote Control (two match ways)

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

Use Match key

Match:

Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) on the remote.

The LED indicator fast flash a few times means match is successful.

Delete:

Press and hold match key for 5s to delete all match, The LED indicator fast flash a few times means all matched remotes were deleted.

Use Power Restart

Match:

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

Light on/off fade time

When using the RF remote control to turn the lights on and off, you can set a 3s light on/off fade.

Long press match key 5s, then short press match key 3 times, the light on/off time will be set to 3s, the indicator light blink 3 times. Long press match key 10s, restore factory default parameter, the light on/off time also restore to 0.5s.

Malfunctions Analysis & Troubleshooting

Malfunctions	Causes	Troubleshooting
No light	No power. Wrong connection or insecure.	Check the power. Check the connection.
No response from the remote	The battery has no power. Beyond controllable distance. The controller did not match the remote.	Replace battery. Reduce remote distance. Re-match the remote.

Installation Precautions

- 1. The distance between the products should be \geq 20cm, so as not to affect lifespan of the products due to poor heat dissipation.
- 2. The product shall not be installed close to the switching power supply with an interval of ≥ 20cm to avoid radiation interference of the switching power supply.
- 3. The installation height shall be ≥ 1 m from the floor to avoid shortening the remote control distance due to too weak reception signal.
- 4. The products are not allowed to be close to or covered by metal objects, with an interval of ≥ 20cm to avoid signal attenuation and shorten the remote distance.
- 5. Avoid installation at the corner of the wall or the corner of the beam, with an interval of ≥ 20cm to avoid signal interference.