1 Channel Rotary RF LED Dimmer

Model No.: DIM0108HF-1XRF

Rotary dimming /Four PWM frequency/RF 2.4G Remote



Features

- 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 500/2K/8K/16KHz selectable.
- Over-heat / Short circuit / Reverse protection, recover automatically.
- Light on/off fade time 3s selectable.

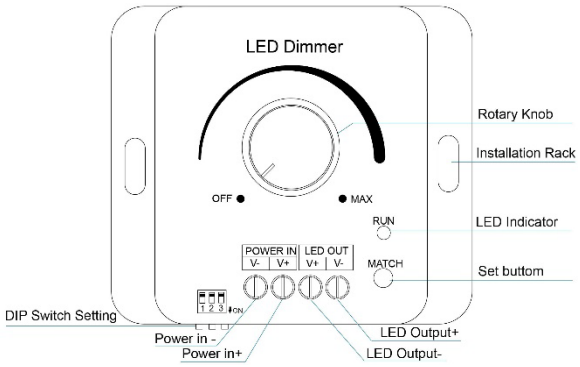
Technical Parameters

Input and Output	
Input voltage	12-48VDC
Input current	8.5A
Output voltage	12-48VDC
Output current	8A@12-24VDC 6A@36-48VDC
Output power	96W@12V 192W@24V 216W@36V 288W@48V
Output type	Constant voltage
Warranty	
Warranty	5 years

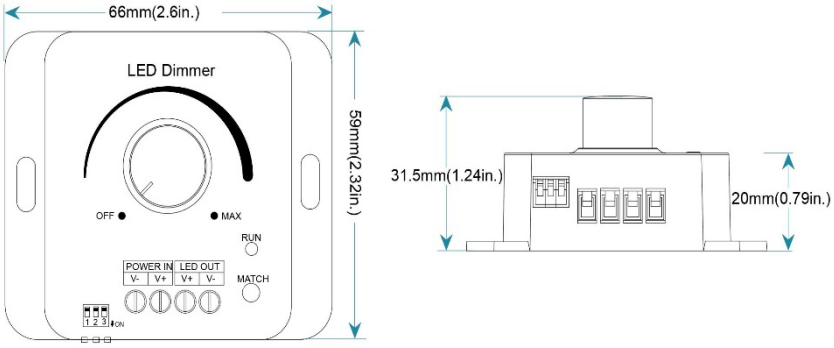
Dimming data	
Dimming method	Rotary knob+RF2.4G
Control distance	30m(Barrier-free space)
Dimming gray scale	256 levels
Dimming range	0-100%
Dimming curve	Logarithmic / linear
PWM Frequency	500/2K/8K/16KHz
Package	
Size	L70 x W60 x H40mm
Gross weight	0.059kg

Safety and EMC	
EMC standard (EMC)	EN 62479:2010 ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard	EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017
Certification	CE RED
Environment	
Operation temperature	Ta:-30 ℃ ~ +55 ℃
Case temperature (Max.)	Tc :+85 ℃
IP Rating	IP20

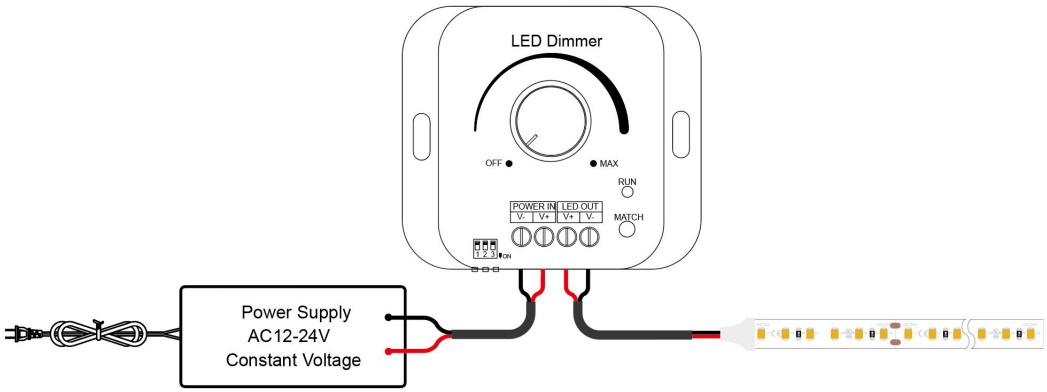
Mechanical Structures and Installations



Mechanical Dimensions



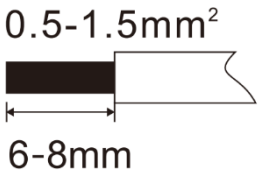
Wiring Diagram



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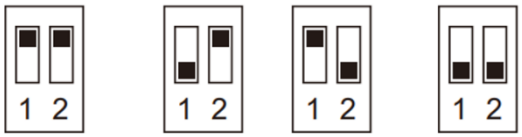
Wire Preparation:

1. The wiring can be solid or stranded with a cross-sectional area of 0.5 to 1.5 mm².
   Conventional 1mm² 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 Setting

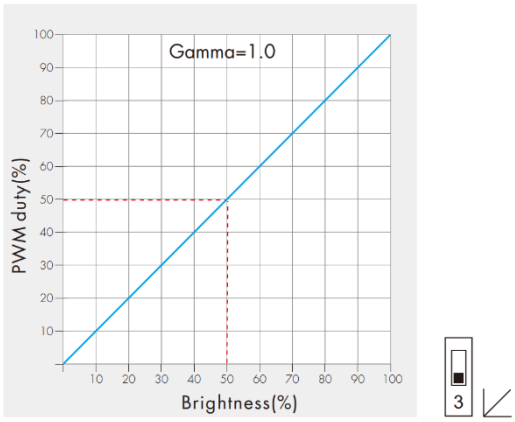


500KHz	2KHz	8KHz	16KHz
8A	8A	6A	4A (12-24V)
6A	6A	4A	3A (36-48V)

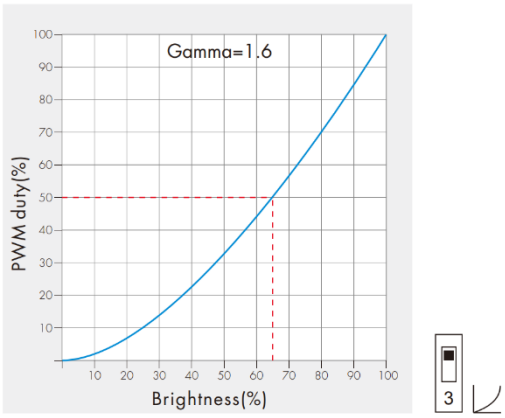
We can select four PWM frequency: 500Hz, 2KHz, 8KHz or 16KHz.
Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).

Dimming curve setting

Linear dimming curve



Logarithmic dimming curve



Match Remote Control (two match ways)

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, 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.

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Malfunctions Analysis & Troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power. 2. Wrong connection or insecure.	1. Check the power. 2. Check the connection.
No response from the remote	1. The battery has no power. 2. Beyond controllable distance. 3. The controller did not match the remote.	1. Replace battery. 2. Reduce remote distance. 3. Re-match the remote.

Installation Precautions

1. The distance between the products should be ≥ 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 ≥ 1m 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.

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