2 Channels CCT LED Dimmer

Model No.: DIM0210HF-3BRF

3-button / RF dimming / Four PWM frequency / Multiple protection



CE RoHS emc

Features

- 2 channel constant voltage Hybrid LED RF dimmer with 3-button.
- Switch and dimming by 3 buttons.
- Match with RF 2.4G single zone or multiple zones dimming remote control optional.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- PWM frequency 500Hz, 2KHz, 8KHz or 16KHz selectable.
- Over-heat / Over-load / Short circuit protection, recover automatically.

Technical Parameters

Input and Output	
Input voltage	12-24VDC
Input current	20.5A Max.
Output voltage	12-24VDC
Output current	2CH×10A Max. (@500Hz/2KHz) 2CH×8A Max.(@8KHz) 2CH×6A Max.(@16KHz)
Output power	240/480W (@500Hz/2KHz) 192/384W (@8KHz) 144/288W (@16KHz)
Output type	Constant voltage

Packing	
Size	L100 x W46 x H38mm
G.W	0.081kg

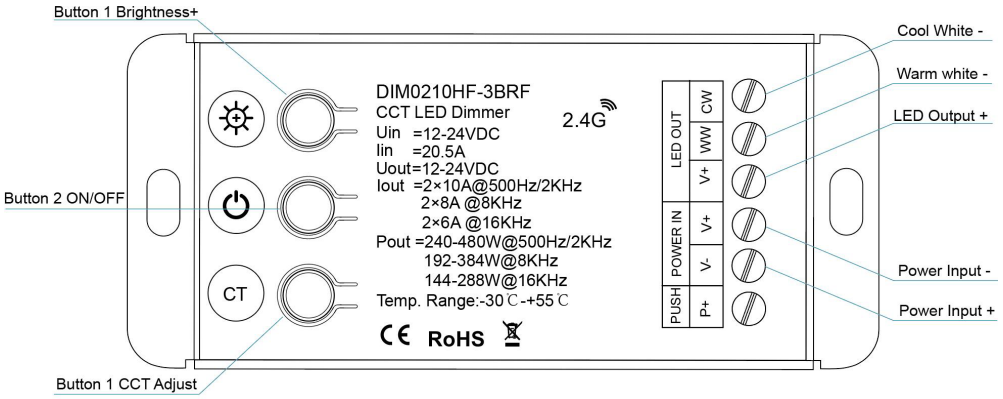
Safety and EMC	
EMC standard (EMC)	EN55032:2015, EN61000-3-2:2014, EN61000-3-2:2013, EN55024 :2010/A1:2015
Safety standard(LVD)	EN 62368 1:2020+A11:2020
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Certification	CE,EMC,LVD,RED

Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity Over-heat Over-load Short circuit

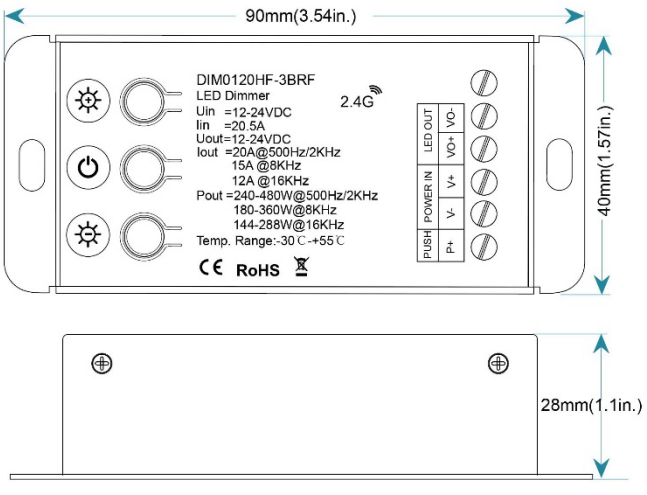
Dimming Data	
Control Method	3-button + RF 2.4GHz
Control distance	30m(Obstruction-free)
Dimming gray scale	4096 (2^12) levels
Dimming range	0-100%
Dimming curve	Linear
PWM Frequency	500Hz, 2kHz, 8kHz, 16kHz

Environment	
Operation temperature	Ta: -30 ℃ ~ +55 ℃
Case temperature (Max.)	Tc: +85OC
IP Grade	IP20

Mechanical Structures and Installations



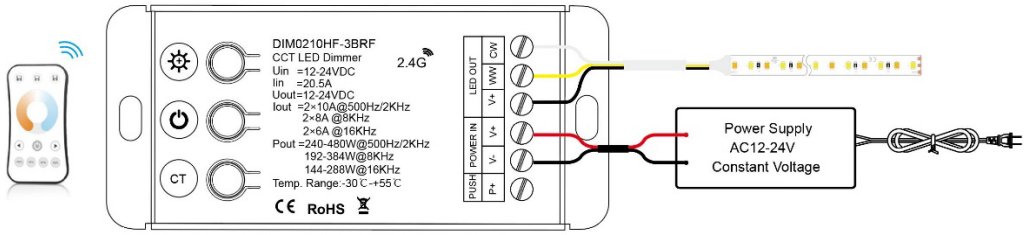
Mechanical Dimensions



SHENZHEN GLU LIGHTING CO., LTD.
6F, Bldg A2, New Times Gongrong Industrial Area, No.2 Shihuan Rd.,
Shilong Community, Shiyan Sub-district, Bao'an District, Shenzhen,
Guangdong Province, P.R. China, 518108
Tel:+86-755-23708101/23708102
Email:info@glu-light.com,sales@glu-light.com
Web:www.glulightstrip.com

Wiring Diagram

Match with dimming remote



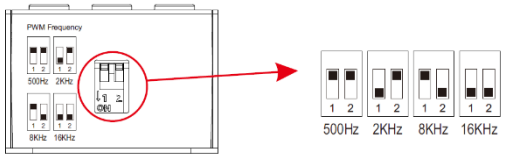
Button function

Adjust brightness, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.

Turn on or off light.

CT — Adjust color temperature, short press 3 color cycle (warm white, natural white, cold white), long press 1-6s for continuous 256 levels adjustment.

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).

Match Remote Control (two match ways)

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

Use the controller's button

Match:
Long press button1 and button 3 for 2s,
press on/off key (single zone remote) or zone
key (multiple zone remote) of the remote immediately.

Delete:
Press and hold button1 and button 3 for 5s to delete all match,
The light blinks 5 times means all matched remotes were deleted.

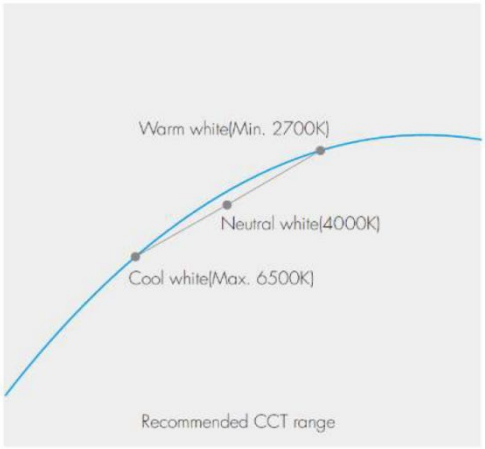
Use Power Restart

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.

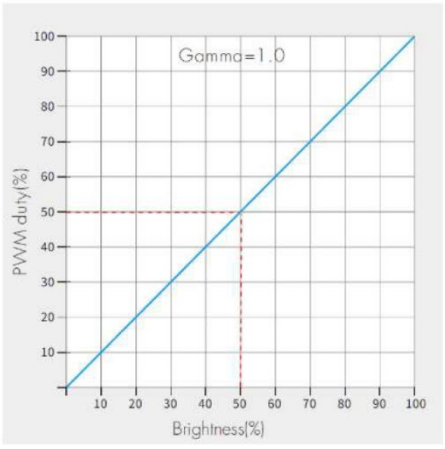
Delete:
Switch off the power, then switch on power, repeat again.
Short press on/off key (single zone remote) or zone key
(multiple zone remote) 5 times on the remote immediately.
The light blinks 5 times means all matched remotes were deleted.

Dimming curve setting

Linear Hybrid color tuning



Dimming curve for Hybrid



Installation Precautions

1. The products shall not be stacked, the distance 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 the 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 control 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.

SHENZHEN GLU LIGHTING CO., LTD.
6F, Bldg A2, New Times Gongrong Industrial Area, No.2 Shihuan Rd.,
Shilong Community, Shiyan Sub-district, Bao'an District, Shenzhen,
Guangdong Province, P.R. China, 518108
Tel:+86-755-23708101/23708102
Email:info@glu-light.com,sales@glu-light.com
Web:www.glulightstrip.com