3 Channel RGB LED Dimmer

Model No.: DIM0305HF-3BRF

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

Features

- 3 channel constant voltage RGB 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.
- Built in 10 dynamic modes, include jump or gradual change style.
- PWM frequency 500Hz, 2KHz, 8KHz or 16KHz selectable.
- Over-heat / Over-load / Short circuit protection, recover automatically.

CE RoHS emc

Technical Parameters

Input and Output	
Input voltage	12-24VDC
Input current	18.5A Max.
Output voltage	12-24VDC
Output current	3CH×6A Max. (@500Hz/2KHz) 3CH×5A Max.(@8K/16KHz)
Output power	216/432W (@500Hz/2KHz) 180/360W (@8K/16KHz)
Output type	Constant voltage

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

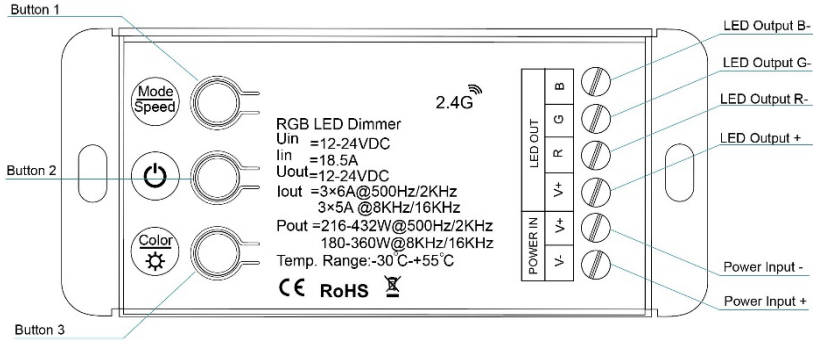
Dimming Data	
Control Method	3-button + RF 2.4GHz
Control distance	30m(Obstruction-free)
Dimming gray scale	4096 (2^12) levels
Dimming range	0-100%
Dimming curve	Logarithmic
PWM Frequency	500Hz, 2kHz, 8kHz, 16kHz

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

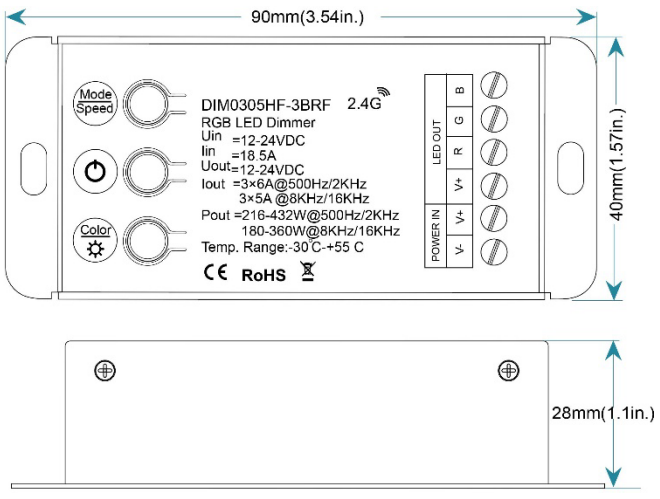
Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity Over-heat Over-load Short circuit

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

Mechanical Structures and Installations



Mechanical Dimensions



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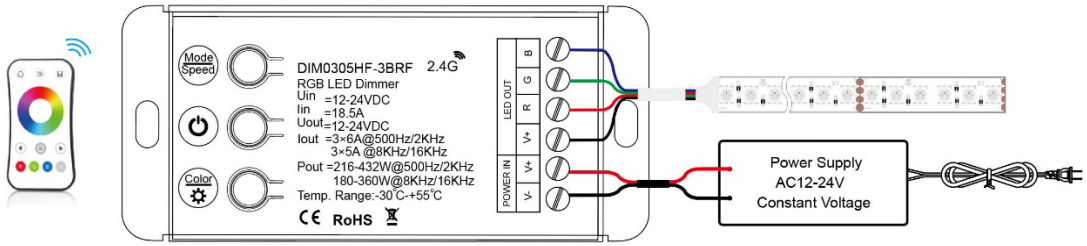
Wiring Diagram

Match with dimming remote



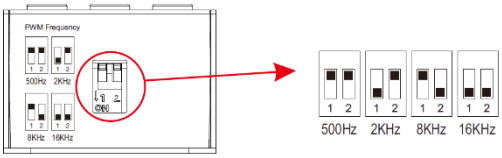
Button function

Mode Speed — Short press to change 10 dynamic mode, long press for 2s to adjust speed, 10 levels.

Turn on or off light.

Color — Short press to change 24 static RGB color, long press for 1-6s to adjust 256 levels brightness continuously.

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

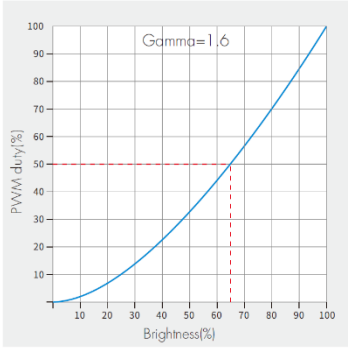
Match:
Switch off the power, then switch on power, repeat again.
Immediately short press on/off key (single zone remote)
or zone key (multiple zone remote) 3 times on the remote.
The light blinks 3 times means match is successful.

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.

Dynamic mode list

No.	Model	No.	Model
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	Yellow cyan purple smooth	10	White fade in and out

Dimming curve setting



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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.

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