

5 Channels RF LED Controller

Model No.: DIM0503-RF

RF RGB/RGBW/RGB+CCT

Features

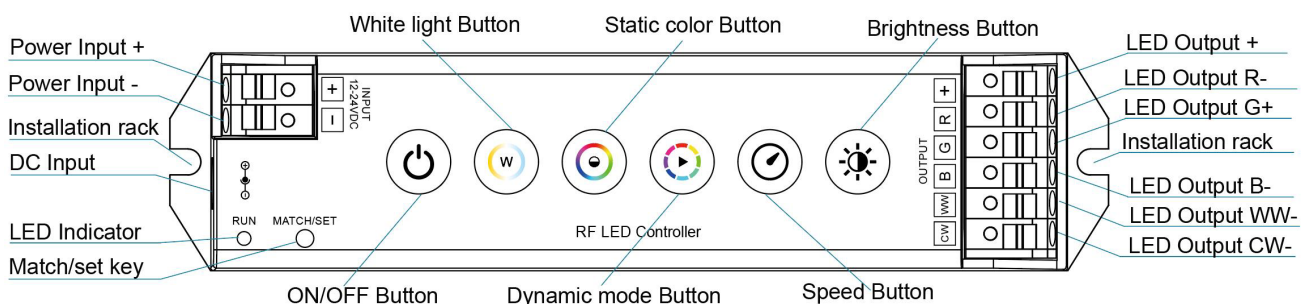
- 6 button RGB, RGBW or RGB+CCT LED RF controller with 5 channel constant voltage output.
- 6 buttons operation with on/off, adjust brightness, color temperature and RGB color, change dynamic mode and speed.
- Set up 5 light type by button: RGB, RGBW, RGB+W, RGB+CCT or RGB+CCT.
- Match with RF 2.4G single zone or multiple zone RGB, RGBW, RGB+CCT 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.



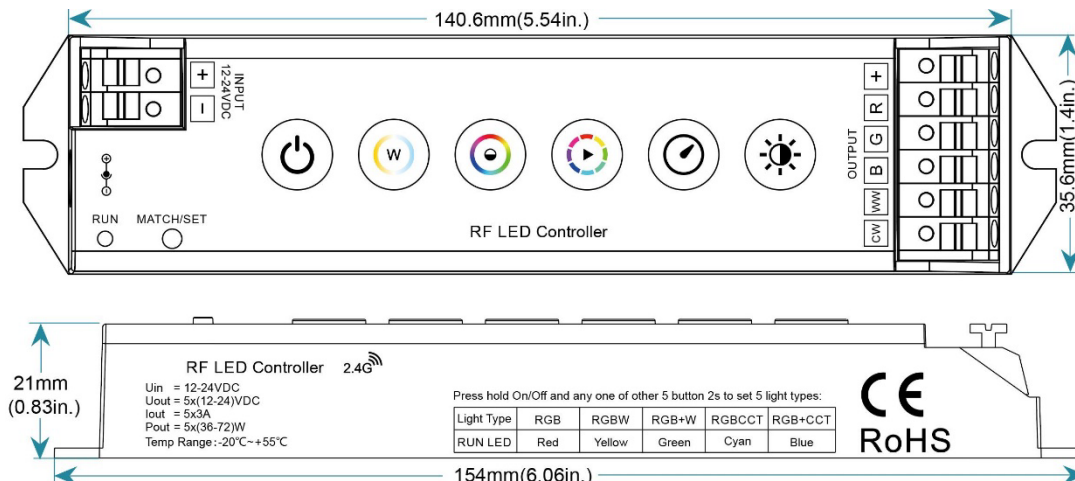
Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	12-24VDC	Control method	RF2.4G	EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Output voltage	5×(12-24)VDC	Control distance	30m(Barrier-free space)	Safety standard	EN 62368-1:2020+A11:2020
Output current	5CH×3A	Dimming gray scale	4096 (2 ¹²) levels	Radio Equipment	ETSI EN 300 328 V2.2.2
Output power	5×(36-72)W	Dimming range	0-100%	Certification	CE RED
Output type	Constant voltage	Dimming curve	Logarithmic	Environment	
Warranty and Protection		PWM Frequency	2KHz(default)	Operation temperature	Ta:-30 °C ~ +55 °C
Warranty	5 years	Package		Case temperature (Max.)	Tc :+85 °C
Protection	Reverse polarity, Short circuit Over-heat, Over-load	Size	L162 x W42 x H26mm		
		Gross weight	0.091kg		

Mechanical Structures and Installations



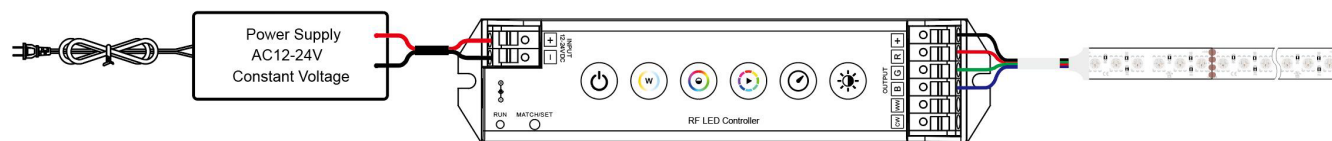
Mechanical Dimensions



Wiring Diagram

For RGB

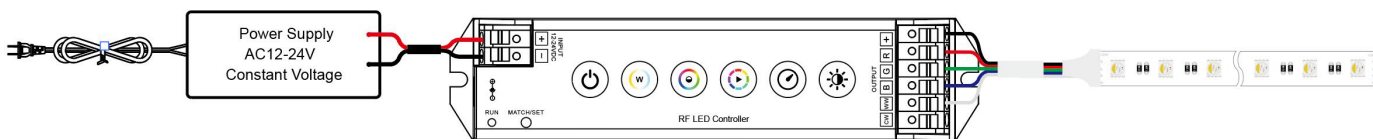
Press and hold  and  button for 2s, set to RGB light type, LED indicator shows red.



For RGBW

Press and hold  and  button for 2s, set to RGBW light type (RGB channel and W channel outputs cannot be turned on at the same time), LED indicator shows yellow.

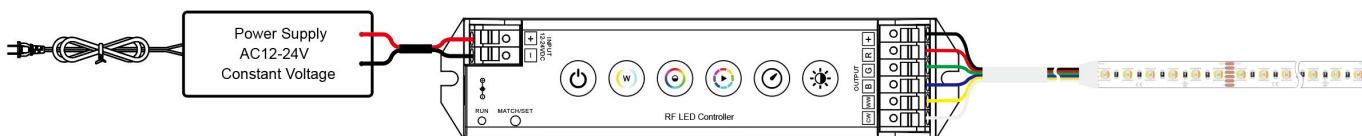
Press and hold  and  button for 2s, set to RGB+W light type (RGB channel and W channel outputs can be turned on at the same time), LED indicator shows green.



For RGB+CCT

Press and hold  and  button for 2s, set to RGB CCT light type (RGB channel and WW/CW channel outputs cannot be turned on at the same time), LED indicator shows cyan.

Press and hold  and  button for 2s, set to RGB+CCT light type (RGB channel and WW/CW channel outputs can be turned on at the same time), LED indicator shows blue.



Button Function



: Turnon/off the light.



: Adjust the color temperature or white light brightness. For RGB light type, short press to switch whitelightbrightness (10%, 25%, 50%, 75%, 100%); long press 1-6s for continuous 256 levels whitelight adjustment, dimming range of 1-100%. For RGB CCT and RGB+CCT light type, short press to switch



: Short press get 24 kinds static RGB color; long press 1-6s for continuous 256 levels saturation adjustment, namely change current static RGB color to mixed white slowly.



: Short press to change 10 dynamic mode; long press 2s run mode-cycle.



: For dynamic RGB mode, adjust speed, short press 5 levels, long press 2s get the default speed. For static RGB color, adjust saturation, short press 5 levels, long press 2s to set minimum saturation (i.e. full 100% for RGB channels).



: Short press to switch brightness (10%, 25%, 50%, 75%, 100%); long press 1-6s for continuous 256 levels brightness adjustment.

Note:

1. For RGBW light type: When the white light brightness is adjusted by  button, the RGB channel auto-off.
2. For RGB+W light type: When the white light brightness is adjusted by  button, the RGB channel remains unchanged.
3. For RGB CCT light type: Short press  button to switch to the color temperature state, RGB channel auto-off, then adjust the brightness of the current color temperature by  button.

Short press  button to switch to the color light state, CCT channel auto-off,

then adjust the brightness of the current color light by  button.

4. For RGB+CCT light type: Short press  button to switch to the color temperature state, RGB channel remains unchanged, then adjust the brightness of the current color temperature by  button.

Short press  button to switch to the color light state, CCT channel remains unchanged,

then adjust the brightness of the current color light by  button.

5. Factory parameter setting: Long press the match/set key for 15s to restore the factory parameter setting, light type default is RGB+CCT.

Dynamic change mode list

For RGB/RGBW/RGB+W:

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	Yellow cyan purple smooth	10	White fade in and out

For RGB+CCT/RGB+CCT:

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

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/set 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/set 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.