30.00 mm

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5 Channel LED RF Controller

Model No.: V5-L

5 Channels/1-5 color/DC12-48V/Four PWM frequency/Wireless remote control/Push Dim



Features

FC C CE RoHS emc RED

- 5 in 1 function, used for control RGB, RGBW, RGB+CCT, color temperature or single color LED strip.
- Match with RF 2.4G single zone or multiple zone remote control.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- Built in 10 dynamic mode, include jump or gradual change style.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- Synchronize on multiple number of controllers.
- PWM frequency 500Hz, 2000Hz, 8000Hz or 16000Hz selectable.
- Light on/off fade time 3s selectable.
- Connect with external push switch to achieve on/off and 0-100% dimming function.

Technical Parameters

Input and Output		
Input voltage	12-48VDC	
Input current	30.5A	
Output voltage	5 x (12-48)VDC	
Output current	6A/CH @ 12/24V 4A/CH @ 36/48V	
Output type	Constant voltage	

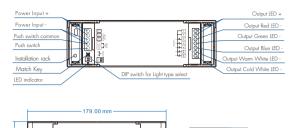
Environment	
Operation temperature	Ta: -30°C ~ +55°C
Case temperature (Max.)	Tc:+85°C
IP rating	IP20

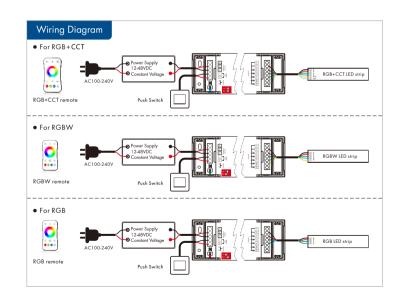
Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity Short circuit Over heat

Dimming data	
Input signal	RF 2.4GHz + Push Dim
Control distance	30m(Barrier-free space)
Dimming gray scale	4096 (2^12) levels
Dimming range	0-100%
Dimming curve	Logarithmic
PWM Frequency	2000Hz (default)

Safety and EMC	
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard(LVD)	EN 62368-1:2020+A11:2020
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Certification	CE,EMC,IVD,RED

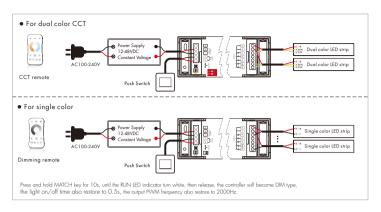
Mechanical Structures and Installations





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Note: For RGB+CCT or CCT light type, continuous power on and off will change 3 levels color temperature (WW, NW and CW) in sequence.

Match:

Delete:

deleted

Use Power Restart

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

Immediately short press on/off key (single zone remote)

The light blinks 3 times means match is successful.

or zone key (multiple zone remote) 3 times on the remote.

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

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 Match key

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

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

Light on/off fade time

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.

PWM frequency setting







When power is off, select the DIP switch firstly, then press hold the MATCH key, and power up the controller in the same time, the RUN LED indicator will flash white color two times means PWM frequency setting is successful. We can select four PWM frequency: 500Hz, 2000Hz, 8000Hz or 16000Hz. Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for cameralNo flickers for videol.

Push Dim

	Click	ON/OFF		
Single color	Double Click	Turn on at 100% or 10%(night light) and vice-versa		
	Long press(>1s) from OFF	Dimming UP/DOWN		
	Long press(>1s) from ON	Dimming UP/DOWN		
Click		ON/OFF		
Dual Color	Double Click	Turn on at 100% or 10%(night light) and vice-versa		
	Long press(>1s) from OFF	Color temperature UP/DOWN (turn off and turn on to return dimming)		
	Long press(>1s) from ON	Dimming UP/DOWN		
Click ON		ON/OFF		
	Double Click	Change from color mode to white mode (RGB mixed) and vice-versa		
RGB	Long press(>1s) from OFF	If on color mode change rotation speed; If on white mode dimming UP/DOWN		
	Long press(>1s) from ON	If on color mode start/stop color rotation; If on white mode dimming UP/DOWN		
	Click	ON/OFF		
	Double Click	Change between color mode, white mode (W channel) and color+W mode		
RGBW	Long press(>1s) from OFF	If on color mode change rotation speed; If on white mode or color+W mode, W dimming UP/DOWN		
	Long press(>1s) from ON	If on color mode start/stop color rotation; If on white mode or color+W mode, W dimming UP/DOWN		
	Click	ON/OFF		
	Double Click	Change from color mode to tunable white mode and vice-versa		
RGB+CCT	Long press(>1s) from OFF	If on color mode change rotation speed; If on tunable white mode color temperature UP/DOWN (turn off and turn on to return dimming)		
	Long press(>1s) from ON	If on color mode start/stop color rotation; If on tunable white mode dimming UP/DOWN		

Color rotation:

We can select 4 rotation speed:

10 flash/s means 6 seconds color rotation 5 flash/s means 30 seconds color rotation

2 flash/s means 1 minute color rotation

1 flash/s means 6 minutes color rotation

Dynamic mode list

For RGB/RGBW:

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:

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

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