

# 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

F© ♥ C€ RoHS @mc 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.

12-48VDC

Short circuit Over heat

30.5A

- 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

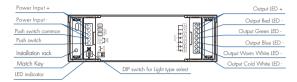
Input current

Protection

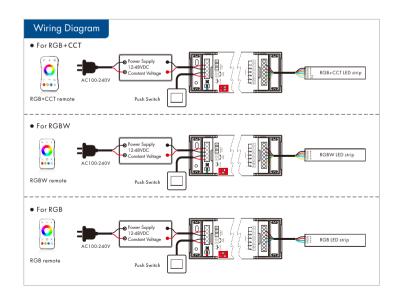
Output voltage	5 x (12-48)VDC			
Output current	6A/CH @ 12/24V 4A/CH @ 36/48V			
Output type	Constant voltage			
Environment				
Operation temperature	Ta: -30°C ~ +55°C			
Case temperature (Max.)	Tc:+85°C			
IP rating	IP20			
Warranty and Protection				
Warranty	5 years			
	Reverse polarity			

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)	
	1	
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	

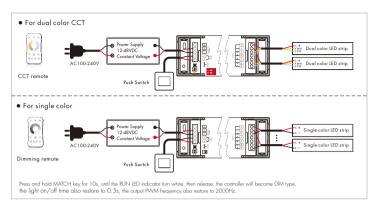
### Mechanical Structures and Installations







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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 Isingle zone remotel

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



500Hz 2000Hz 8000Hz 16000Hz

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	
	Double Click		
Single color		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/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	
RGB+CCT	Click	ON/OFF	
	Double Click	Change from color mode to tunable white mode and vice-versa	
	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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