



RGB/CCT/Dimming 3 Channel LED RF Controller

Model No.: V3-L/P

3 Channels/Wireless remote control/Push Dim/Four PWM frequency/Linear or logarithmic dimming /Multiple protection



FCC CE RoHS LVD RED

Features

- Match with RF 2.4G single zone or multiple zone single color, dual color and RGB/RGBW remote control.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- When using with RGB light, 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.
- Light on/off fade time 3s selectable.
- Connect with external push key to achieve on/off and 0-100% dimming function.
- Logarithmic or linear dimming curve selectable.
- PWM frequency 500Hz, 2KHz, 8KHz or 16KHz selectable.
- Over-heat / Over-load / Short circuit protection, recover automatically.

Technical Parameters

Input and Output	
Input voltage	12-48VDC
Input current	18.5A
Output voltage	3 x (12-48)VDC
Output current	3CH,6A/CH
Output power	3 x (72-288)W
Output type	Constant voltage

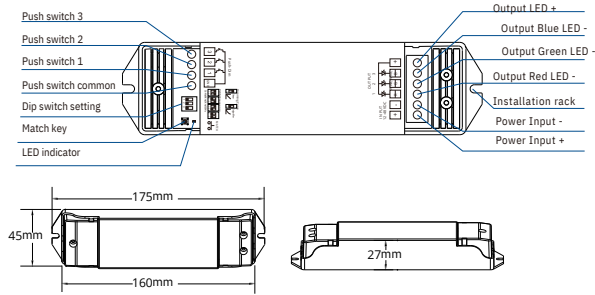
Safety and EMC	
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard(LVD)	EN 62368-1:2020+A11:2020
Radio	ETSI EN 300 328 V2.2.2
Equipment(RED)	CE,EMC,LVD,RED
Certification	

Environment	
Operation temperature	Ta: -30OC - +55OC
Case temperature (Max.)	±85OC
IP rating	IP20

Dimmingdata	
Input signal	RF 2.4GHz + Push Dim
Control distance	30m(Barrier-free)
Dimming gray scale	4096(2 ¹²) levels
Dimming range	0-100%
Dimming curve	Logarithmic or linear
PWM Frequency	500Hz, 2KHz, 8KHz, 16KHz

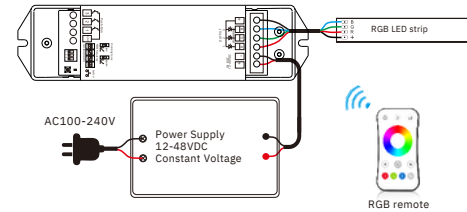
Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity Over-heat Over-load Short circuit

Weight	
Net weight	0.108 kg
Gross weight	0.130 kg

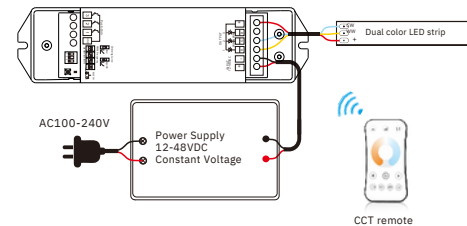


Wiring Diagram

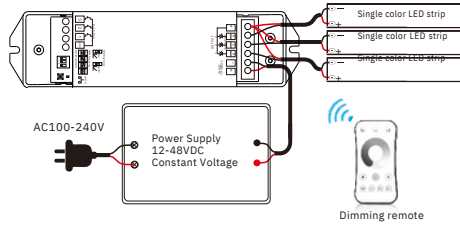
● V3-L/P for RGB



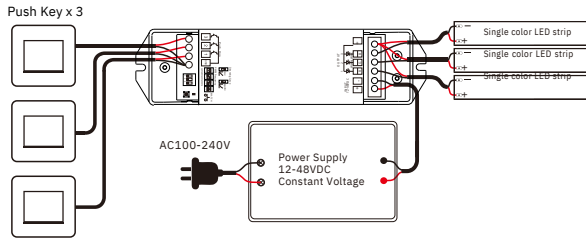
● V3-L/P for dual color



● V3-L/P for single color



● V3-L/P with three push key for 3 channel single color



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

Match:
Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote.
The LED indicator fast flash a few times means match is successful.

Delete:
Press and hold match 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 of the receiver, 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 of the receiver, 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.

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.

Push-Dim control

The 3 push key have 3 channel dimming function defaultly.

- Short press: Turn on or off each channel.
- Long press (1-6s): Press and hold to step-less dimming of each channel, With every other long press, the light level goes to the opposite direction.
- Dimming memory: Light returns to the previous dimming level when switched off and on again.

You also can long press push key and Match key at the same time to select 3 kinds light type, and each light type will have different push key function.

Long press 1 key and Match key 2 seconds, set as 3 channel single color type (default).

Long press 2 key and Match key 2 seconds, set as dual color type.

Long press 3 key and Match key 2 seconds, set as RGB type.

at this time, if the light type has set as dual color or RGB, match remote will not change light type

If you want to cancel light type set, please long press Match key 10 seconds to restore factory setting.

Single color (3 CH)	1 key	Short press turn on/off 1 channel, long press 1-6s dim up/down
	2 key	Short press turn on/off 2 channel, long press 1-6s dim up/down
	3 key	Short press turn on/off 3 channel, long press 1-6s dim up/down
Dual color	1 key	Short press turn on/off light, long press 1-6s dim up/down
	2 key	Short press 3 levels color temperature (WW, NW, CW), long press 1-6s color temperature up/down
	3 key	Invalid
RGB	1 key	Short press turn on/off light, long press 1-6s dim up/down
	2 key	Short press change dynamic mode, long press 2s to set speed (1-10 levels)
	3 key	Short press change static RGB color (24 levels), long press 1-6s adjust saturation

RGB dynamic mode list

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

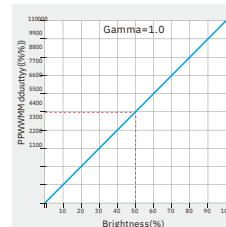
PWM frequency setting



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).

Dimming curve setting

Linear dimming curve



Logarithmic dimming curve

