4 Channel Constant Voltage LED Waterproof RF Controller

Model No.: V4-WP

IP67 waterproof/4 Channels/Step-less dimming/Wireless remote control/Auto-transmitting/Synchronize



FC C CE RoHS EMC LVD RED

Features

- Waterproof 4 channel constant voltage LED RF controller with IP67 rating, suitable for outdoor and damp environment.
- 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/RGBW 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.

Technical Parameters

Input and Output		Safety and EMC
Input voltage	12-36VDC	EMC standard (EMC)
Input current	20.5A	Safety standard(LVD)
Output voltage	4 x (12-36)VDC	Radio Equipment(RED)
Output current	4CH,5A/CH	Certification
Output power	4 x (60-180)W	
Output type	Constant voltage	Environment
		Operation temperature
Dimming data		Case temperature (Ma
Input signal	RF 2.4GHz	IP rating
Control distance	30m(Barrier-free space)	
Dimming gray scale	4096 (2^12) levels	Warranty and Pro
Dimming range	0-100%	Warranty

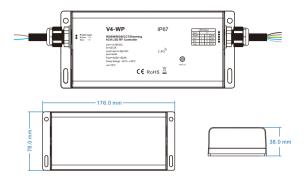
Logarithmic

500Hz (default)

Satety and EMC		
EMC standard (EMC)	EN301 489,EN 62479	
Safety standard(LVD)	EN60950	
Radio Equipment(RED)	EN300 328	
Certification	CE,EMC,LVD,RED	
Environment		
Operation temperature	Ta: -30°C ~ +55°C	
Case temperature (Max.)	Tc:+85°C	
IP rating	IP67	
Warranty and Protection		

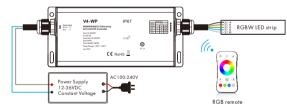
Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity Over-heat Over-load Short circuit

Mechanical Structures and Installations



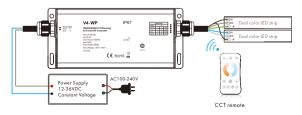
Wiring Diagram

• V4-WP for RGB/RGBW



Note: If connect with RGB LED strip, please long press match key for 1.5s, the controller will become RGB type.

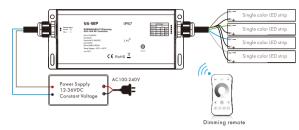
V4-WP for dual color



Dimming curve

PWM Frequency

• V4-WP for 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	Use Power Restart
Match: Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote.	Match: Switch off the power, the immediately short press or zone key (multiple zon The light blinks 3 times r
Delete:	Delete:

Press and hold match key for 5s to delete all match. The light blinks 5 times means all matched remotes were deleted.

hen switch on power again, on/off key (single zone remote) one remote) 3 times on the remote. means match is successful.

Switch off the power, then switch on power 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.

RGB/RGBW 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

Dual color control

CH1.CH3=Warm white LED

CH2 CH4=Cool white IFD

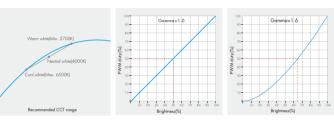
Each channel can supply up to 120W(@24V) and white balance can be controlled as such:

Color temperature	Cool white	Neutral white	Warm white
Power distribution	CH1=0W,CH2=120W	CH1=60W,CH2=60W	CH1=120W,CH2=0W
	CH3=0W,CH4=120W	CH3=60W,CH4=60W	CH3=120W,CH4=0W

Dimming curve for CCT



Dimming curve for RGBW/RGB/DIM



Malfunctions analysis & troubleshooting

Malfunctions	Causes	Troubleshooting
No light	 No power. Wrong connection or insecure. 	 Check the power. Check the connection.
Wrong color	1. Wrong connection of R/G/B/W wires.	1. Reconnect R/G/B/W wires.
Uneven intensity between front and rear,with voltage drop	 Output cable is too long. Wire diameter is too small. Overload beyond power supply capability. Overload beyond controller capability. 	 Reduce cable or loop supply. Change wider wire. Replace higher power supply. Add power repeater.
No response from the remote	 The battery has no power. Beyond controllable distance. The controller did not match the remote. 	 Replace battery. Reduce remote distance. Re-match the remote.