WATERPROOF 4 CHANNEL CONSTANT VOLTAGE LED RF CONTROLLER

Model number: (V4-WPS)

Wireless LED Neon Controller

Features

- Waterproof 4 channel constant voltage LED RF controller with IP67 rating, suitable for outdoor and damp environmentOne RF controller accept up to 10 remote control.

- Match with RF 2.4G single zone or multiple zone single color, and RGB/remote control.

- One RF controller accept up to 10 remote control.

- 4096 levels 0-100% dimming smoothly without any flash.

- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.

- Synchronize on multiple number of controllers.

- Fade in and out effect selectable.

CE RoHS emc LVD RED

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

Technical Parameters

Input and Output

Input voltage	12-36VDC
Input current	20.5A
Output voltage	4 x (12-36)VDC
Output current	4CH,5A/CH
Output power	60-1080W(12-36V)
Output type	4x(60-180W)

Dimming data

Input signal	RF 2.4GHz
Control distance	30m(Barrier-free space)
Dimming gray scale	4096 (2^12) levels
Dimming range	0 -100%
Dimming curve	Logarithmic
PWM frequency	1000Hz (default)

Package Size & Weight

Size:	L165xW98xH72mm
Gross weight:	0.492kg

Waranty

5 years

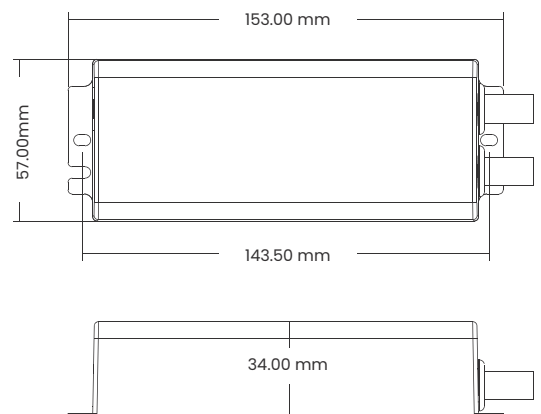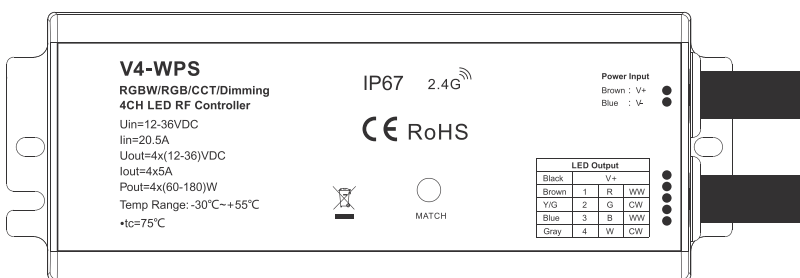### Safety & EMC

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

Environment

Operation temperature	Ta: −30°C ~ +55°C
Case temperature (Max.)	Tc: +75°C
IP rating	IP67

Mechanical Structures & Installations

V4-WPS
RGBW/RGB/CCT/Dimming
4CH LED RF Controller

IP67   2.4G

CE RoHS

Uin=12-36VDC
Iin=20.5A
Uout=4x(12-36)VDC
Iout=4x5A
Pout=4x(60-180)W
Temp Range: -30℃~+55℃
•tc=75℃

MATCH

Power Input
Brown : V+
Blue : V-

LED Output			
Black		V+	
Brown	1	R	WW
Y/G	2	G	CW
Blue	3	B	WW
Gray	4	W	CW

153.00 mm

57.00mm

143.50 mm

34.00 mm

KINGSOFNEON™

Match Remote control

End user can choose the suitable match/delete ways. Two options are offered for selection:

1. Use the controller's Match key

To Match:

Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) on the remote. The light blinks 3 times means match is successful.

To Delete:

Press and hold match key for 5s to delete all match, The light blinks 3 times means all matched remotes were deleted.

2. Use Power Restart

To 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 successfull.

To 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 3 times means all matched remotes were deleted
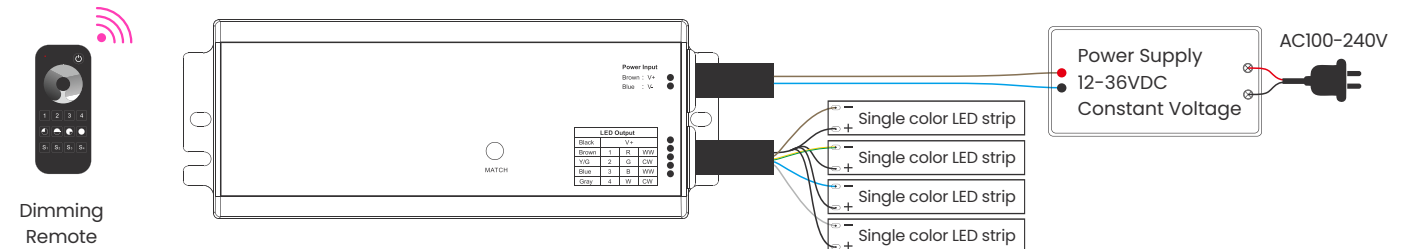
Wiring Diagram

V4-WPS for RGB

RGB remote
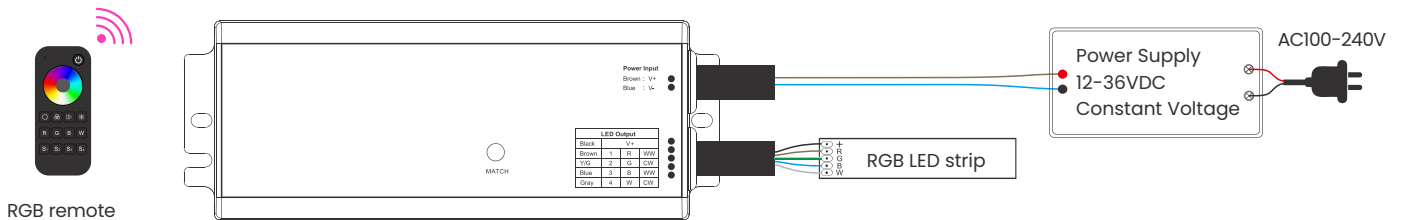
Note: If connect with RGB LED strip, please long press match key for 15s, the controller will become RGB type, the light blinks 5 times. (Long press match key for 10s will restore RGBW type)

V4-WPS for single colour

Dimming Remote

Note: The output power of a constant voltage power supply should be at least 1.2 times that of the output load (light strip) otherwise the full power output of the load can easily cause automatic flickering or shaking of the light.

Dual color control

CH1,CH3 Warm white LED   **CH2,CH4** Cool white LED

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

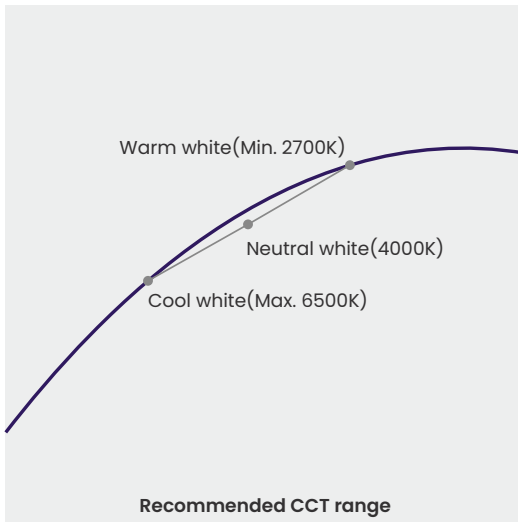| Color temperature	Power distribution
Cool white	CH1=0W,CH2=120W CH3=0W,CH4=120W
Neutral white	CH1=60W,CH2=60W CH3=60W,CH4=60W
Warm white	CH1=120W,CH2=0W CH3=120W,CH4=0W

Fade in and Fade out Setting

Long press match key 5s, then short press match key 3 times, the lighting effect will be set to the fade in and fade out in 3s. Long press match key 10s, restore factory default parameter, the light blinks 10 times, the light on/off time restores to 0.5s.
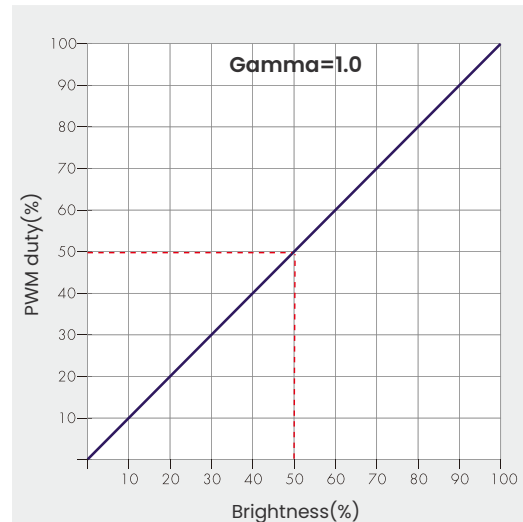
RGB dynamic mode list

1. RGB jump
2. RGB smooth
3. 6 color jump
4. 6 color smooth
5. Yellow cyan purple smooth
6. RGB fade in and out
7. Red fade in and out
8. Green fade in and out
9. Blue fade in and out
10. White fade in and out

Dimming Curve

Linear dual color tuning

Warm white(Min. 2700K)

Neutral white(4000K)

Cool white(Max. 6500K)

Recommended CCT range

Dimming curve for CCT

Gamma=1.0

PWM duty(%)

Brightness(%)

Dimming curve for RGB / DIM

Gamma=1.6

PWM duty(%)

Brightness(%)
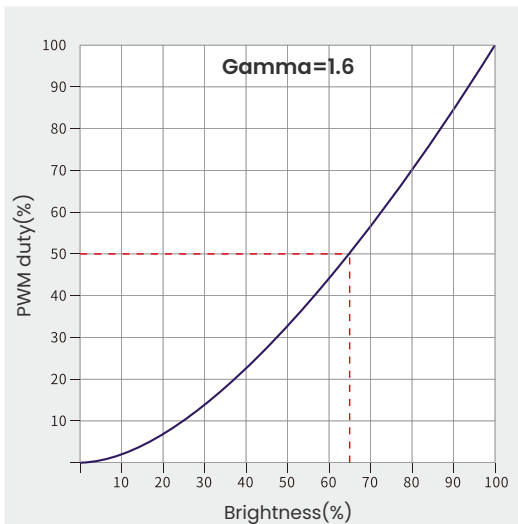
Installation precautions

1. The products shall not be stacked, the distance should be ≥ 20cm, so as not to affect lifespan of the products due to poor heat dissipation.

2. The product shall not be installed close to the switching power supply with an interval of ≥ 20cm to avoid radiation interference of the switching power supply.

3. The installation height shall be ≥ 1m from the floor to avoid shortening the remote control distance due to too weak reception signal.

4. The products are not allowed to be close to or covered by metal objects, with an interval of ≥ 20cm to avoid signal attenuation and shorten the remote distance..

5. Avoid installation at the corner of the wall or the corner of the beam, with an interval of ≥ 20cm to avoid signal interference.