LCRGBWSD-V4-WPS
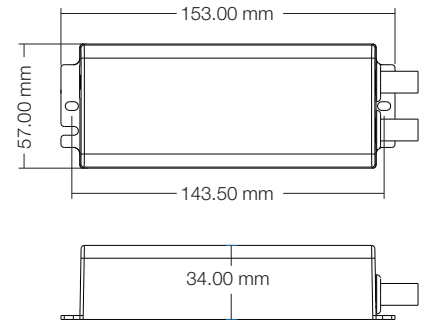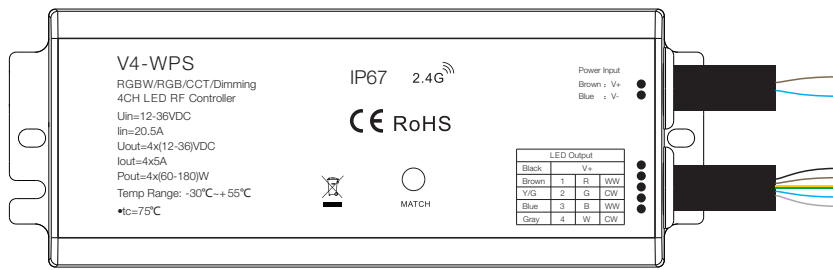## 5Amp x 4Channel IP67 Controller

Features

- Waterproof 4 channel constant voltage LED RF controller with a IP67 rating making it suitable for outdoor and damp environments
- Matches with RF 2.4G single zone or multiple zone single colour, dual colour and RGB/RGBW remote controls
- One RF controller accepts up to 10 remote controls
- 4096 levels 0-100% dimming smoothly without flashing
- 10 dynamic modes including jump or gradual change style when controlling RGB or RGBW LED
- Auto-transmitting function - Controller automatically transmits a signal to another controller with 30m control distance
- Ability to synchronize multiple controllers
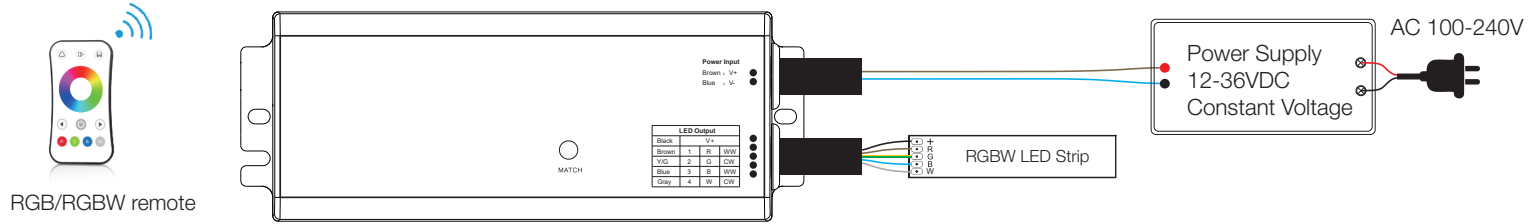- Fade in and out effect option avaialble

Technical Parameters

Input and Output	
Input voltage	12-48VDC
Input current	20.5A
Output voltage	4 x (12-48VDC)
Output current	4CH,5A/CH
Output power	4x(60-240W)
Dimming Data	
Input signal	RF 2.4GHz
Control distance	30m (unobstructed)
Dimming gray scale	4096 (2^12) levels
Dimming range	0 -100%
Dimming curve	Logarithmic
PWM frequency	1000Hz (default)

Environment	
Operation temperature	Ta: -30°C ~ +55°C
Ip rating	IP67
Safety & 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, LVD, RED
Dimensions	
L153 x W57 x H34mm	
Warranty	
Warranty period	5 years

V4-WPS
RGBW/RGB/CCT/Dimming
4CH LED RF Controller
Uin=12-36VDC
Iin=20.5A
Uout=4x(12-36)VDC
Iout=4x5A
Pout=4x(60-180)W
Temp Range: -30℃~+55℃
●tc=75℃

IP67   2.4G

CE RoHS

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
57.00 mm
143.50 mm
34.00 mm

Wiring Diagram for RGB/RGBW

RGB/RGBW remote

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

MATCH

+ R G B W
RGBW LED Strip

Power Supply
12-36VDC
Constant Voltage

AC 100-240V
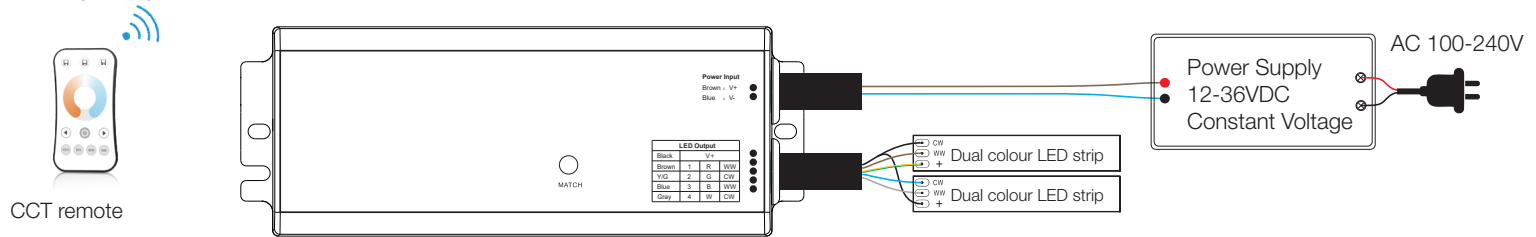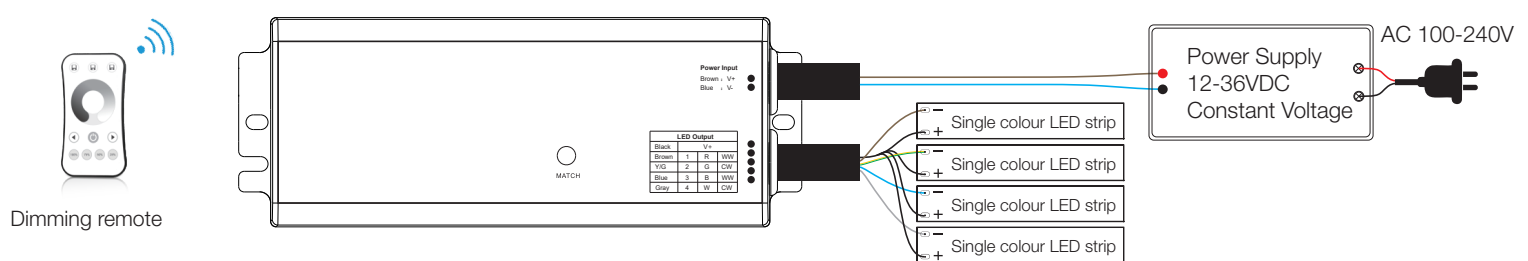
Note: If connecting with a RGB LED strip, please long press match key for 15s, the controller will become RGB type, the light blinks 5 times.

Wiring Diagram for Dual Colour

CCT remote

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

MATCH

CW
WW Dual colour LED strip
+

CW
WW Dual colour LED strip
+

Power Supply
12-36VDC
Constant Voltage

AC 100-240V

Wiring Diagram for Single Colour

Dimming remote

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

MATCH

- + Single colour LED strip
- + Single colour LED strip
- + Single colour LED strip
- + Single colour LED strip

Power Supply
12-36VDC
Constant Voltage

AC 100-240V

Choose between the two options below to match/delete current settings

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.

Delete:
Press and hold match key for 5 seconds to delete existing matches, the light should blink 3 times which means all matched remotes were deleted..

Use Power Restart

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 which means the match is successful.

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 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 colour jump	8	Green fade in and out
4	6 colour smooth	9	Blue fade in and out
5	Yellow cyan purple smooth	10	White fade in and out

Fade in and Fade out Setting

Long press the match key for 5 seconds, then short press the match key 3 times, the lighting effect will be set to the fade in and fade out setting in 3 seconds. Long press the match key for 10 seconds to restore factory default parameter, the light should blink 10 times, the light on/off time restores to 0.5 seconds.
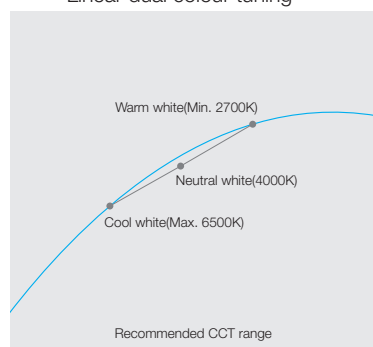
Dual Colour Control
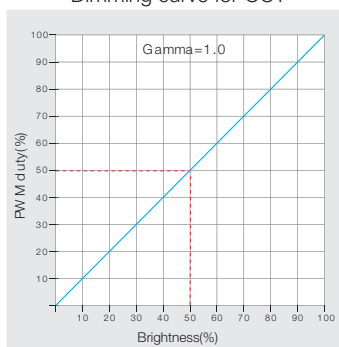
CH1, CH3= Warm white LED   CH2,CH4= Cool White LED
Each channel can supply up to 120W @ 24V and the white balance can be controlled as below

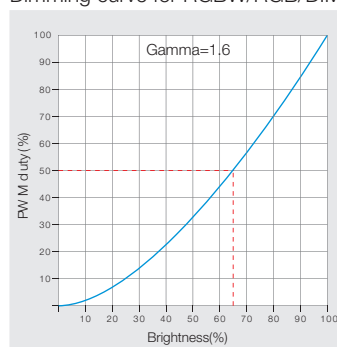| Colour temperature	Cool White	Neutral White	Warm White
Power distribution	CH1=0W, CH2=120W CH3=0W, CH4=120W	CH1=60W, CH2=60W CH3=60W, CH4=60W	CH1=120W, CH2=0W CH3=120W, CH4=0W

Linear dual colour tuning

Dimming curve for CCT

Dimming curve for RGBW/RGB/DIM

Malfunctions Analysis & Troubleshooting

Malfunctions	Causes	Troubleshooting
No light	1. No power 2. Wrong connection or insecure	1. Check the power 2. Check the connection
Wrong colour	1. Wrong connection of R/G/B/W wires	Reconnect R/G/B/W wires
Uneven intensity between front and rear, with voltage drop	1. Output cable is too long 2. Wire diameter is too small 3. Overload beyond power supply capability 4. Overload beyond controller capability	1. Reduce cable or loop supply 2. Change to a wider cable 3. Replace for a higher wattage power supply 4. Add a data repeater
No response from the remote	1. The battery has no power 2. Beyond controller distance 3. The controller did not match to the remote	1. Replace the battery 2. Reduce the remote distance 3. Rematch the remote