# RGB/RGBW 4 DIAL LED CONTROLLER WITH DIGITAL DISPLAY

| MODEL NO: PSCONN-4CHDIALRGBW





# **TECHNICAL INFORMATION**

### **Specifications**

Input & Output	Input Voltage	12 - 24V DC	
	Input Current	16.5A	
	Output Voltage	4 x (12-24)V DC	
	Output Current	4 Channel, 4A per channel	
	Output Power	4 x (48-96)W	
	Output Type	Constant Voltage	
	Input Signal	Dial + Key + RF 2.4GHz	
	Control Distance	30m (barrier free)	
Dimming Data	Dimming Grayscale	256 levels	
Diffining Data	Dimming Range	0 - 100%	
	Dimming Curve	Logarithmic or Linear	
	PWM Frequency	1000/2000/4000/8000Hz	
	Operational Temp.	ta: -30°C to +55°C	
Environment	Operational Temp. Case Temp.	ta: -30°C to +55°C tc: +85°C	
Environment			
Environment	Case Temp.	tc: +85°C	
Environment	Case Temp.	tc: +85°C	
Environment	Case Temp. IP Rating	tc: +85°C IP20	
Environment Safety & EMC	Case Temp. IP Rating	tc: +85°C IP20 ETSI EN 301 489-1 V2.2.3	
	Case Temp. IP Rating EMC Standard (EMC)	tc: +85°C IP20 ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4	
	Case Temp. IP Rating EMC Standard (EMC) Safety Standard (LVD)	tc: +85°C IP20 ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4 EN 62368-1:2020+A11:2020	
	Case Temp. IP Rating EMC Standard (EMC) Safety Standard (LVD) Radio Equipment (RED)	tc: +85°C IP20 ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4 EN 62368-1:2020+A11:2020 ETSI EN 300 328 V2.2.2	
	Case Temp. IP Rating EMC Standard (EMC) Safety Standard (LVD) Radio Equipment (RED)	tc: +85°C IP20 ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4 EN 62368-1:2020+A11:2020 ETSI EN 300 328 V2.2.2	

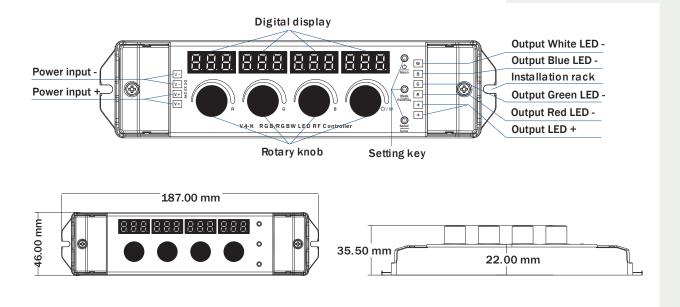


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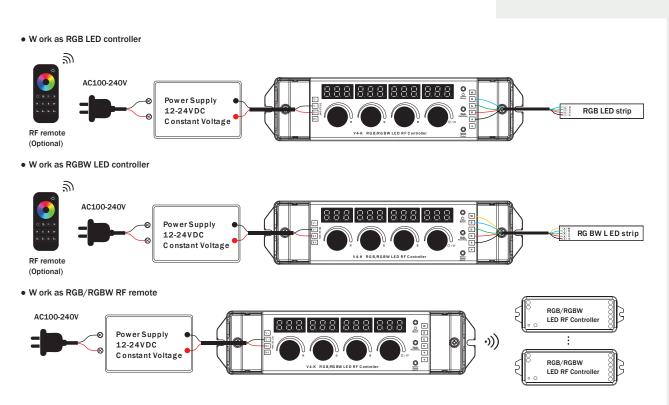
## **FEATURES & BENEFITS**

- RGB & RGBW constant voltage LED RF controller, can also be used as a RGB & RGBW RF remote.
- 4 Dial Dimming, digital numeric display and easy key operation.
- Match with Professional Range RF
  2.4G single zone or multiple zone
  RGB & RGBW remote control
  (optional).
- 256 levels 0-100% dimming smoothly without any flash.
- Bult in 10 dynamic modes, include jump or gradual change style.
- PWM frequency 1000/2000/4000/8000Hz selectable.
- Logarithmic or linear dimming curve selectable.

### **MECHANICAL DIAGRAM**



### WIRING DIAGRAM



### **OPERATION**

#### 4 knob dimming





Green Brightness

(000-255)



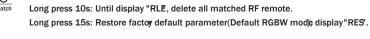
(000-255)



Short press: Tum on or tum off	the light. When light is off,	display "OFF".
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Long press 5s: Enter RF remote matching state, displdyRLS, within 5s, press on/off key or zone key of the RGBW RF remote,

display "RLO", match is successful, 



Short press: Switch between 10 dynamic change mode (P01~P10).

- Long press 5s: Prepare for setup output PWM frequence, then shopress mode key to switch between
- 1000Hz( "F10"), 2000Hz( "F20"), 4000Hz( "F40") or 8000Hz( "F80"). Higher PWM frequency, will cause lower output current,
  - higher power noise, but more suitable for camera(No flickers for video). Long press Mode key for 2s or timeout 10s, quit output PWM frequence setting.



Short press: Set mode speed, switch between 1-10 level speed (S-1, S-9, S-F). Long press 5s: Prepare for setup output brightness oue, then shot press speed key to switchbetween linear cuve("C-L") or logarithmiccuve("C-E"). Long press Speed key for 2s or timeout 10s, quit output brightness versetting.

RGB/RGBW light setting: Press and hold the "Match" and "Speed" key for 2s to switch between RGB or RGBW light type. The rightmost digital tube show "CH3" (RGB) or "CH4"(RGBW) momently

RGB/RGBWd ynamic mode list

No.	N a me	No.	N a me
P01	RG B jump	P06	RG B fade in and out
P02	RG B smooth	P07	Red fade in and out
P03	6 color jump	P08	G reen fade in and out
P0.4	6 colorsmooth	P0 9	Blue fade in and out
P0 5	Yellow cyan purple smooth	P10	W hite fade in and out

# **4 DIAL CONTROLLER AS RGBW RF REMOTE**

This 4 knob controller work as RG B/ RG BW R F remote can match with one or multiple RG B/ RG BW LED RF controller. 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 of receiver

immediately press on/off key on the knob controller

The LED indicator fast flash a few times means match is successful.

Delete:

Press and hold match key of the receiver for 5s to delete all match, The LED indicator fast flash a few times means all matched RF remotes were deleted.

Use Power Restart

#### Match:

Switch off the power of the receiverthen switch on power, repeat again. Immediately shorpress on/off key 3 times on the knob controller The light blinks 3 times means match is successful.

#### Delete:

Switch off the power of the receiver then switch on power, repeat again. Immediately shdrpress on/off key 5 times on the knob controller The light blinks 5 times means all matched remotes were deleted.



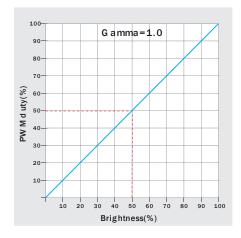




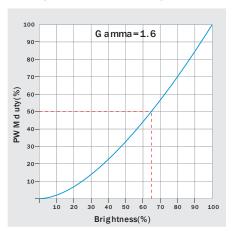
RGB: Total Brightness(000-100) RGBW: White Brightness (000-255)

### **DIMMING CURVE SETTING**

Linear dimming curve



Logarithmic dimming curve



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