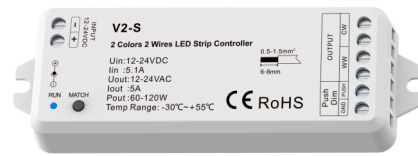


2 Colors 2 Wires LED Strip Controller

Features

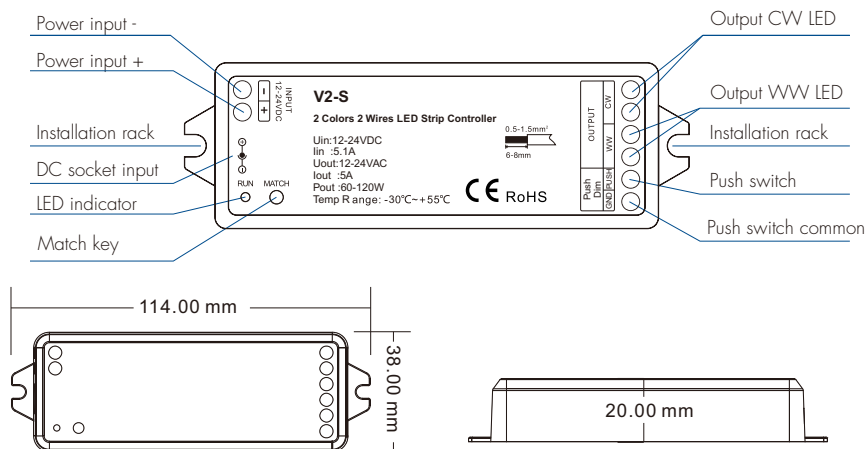
- Only apply to 2-wires VWW+CW LED strip.
- Match with RF 2.4G single zone or multiple zone dual color remote control.
- One RF controller accept up to 10 remote control.
- 4096 levels 0-100% dimming smoothly without any flash.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- Synchronize on multiple number of controllers.
- 3 levels color temperature (VWW, NW and CW) selectable by continuous power off and on operation.
- PWM frequency 2KHz, 8KHz or 16KHz selectable.
- Connect with external push switch to achieve on/off and 0-100% dimming function.

**CE RoHS**

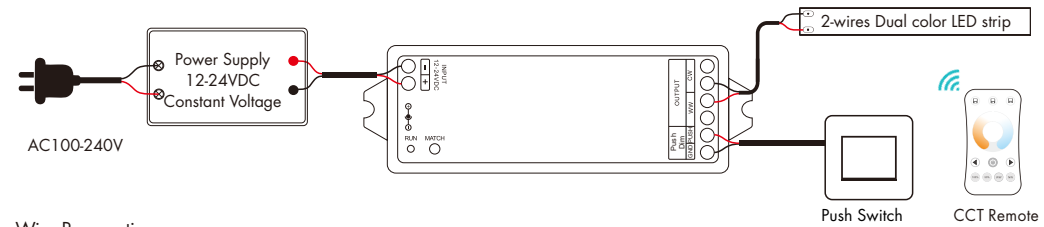
Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	12-24VDC	Input signal	RF 2.4GHz + Push Dim	EMC standard	EN IEC 55015/ EN IEC 61547
Input current	5.1A	Control distance	30m(Barrier-free space)		ETSI EN 301 489-1/-3
Output voltage	12-24VAC	Dimming gray scale	256 levels	Safety standard	EN 61347-1/-2
Output current	5A	Dimming range	0-100%	Radio Equipment	ETSI EN 300 440
Output power	60-120W	Dimming curve	linear	Certification	CE RoHs
Output type	Constant voltage	PWM Frequency	2KHz(default), 8KHz, 16KHz	Package	
Warranty and Protection		Environment		Size	L120x W43 x H27mm
Warranty	5 years	Operation temperature	Ta: -30℃ ~ +55℃	Gross weight	0.066kg
Protection	Reverse polarity	Case temperature (Max.)	Tc: +85℃		

Mechanical Structures and Installations

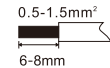


Wiring Diagram



Wire Preparation:

1. The wiring can be solid or stranded with a cross-sectional area of 0.5 to 1.5 mm². Conventional 1 mm² can withstand 10A output current.
2. When wiring is installed, the terminals must be tightened. If they are not tightened, the contact point resistance will be too high and the terminals will easily burn due to heat when used at full load for a long time.



Note:

1. Long press the match key for 1.5s to enable the continuous switch off-on two times rapidly to switch 3 levels color temperature function(This feature is disabled by factory default). Long press the match key for 10s to restore the factory setting.
2. 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.

Push Dim

Click	ON/OFF
Long press(>1s) from OFF	Color temperature UP/DOWN (turn off and turn on to return dimming)
Long press(>1s) from ON	Dimming UP/DOWN

The provided Push-Dim interface allows for a simple dimming method using commercially available non-latching(momentary) wall switches. If more than one controller are connected to the same push switch, do a long press for more than 10s, then the system is synchronized and all lights in the group dim up to 100%. This means there is no need for any additional synchrony wire in larger installations. We recommend the number of controllers connected to a push switch does not exceed 50 pieces. The maximum length of the wires from push to controller should be no more than 50 meters.

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

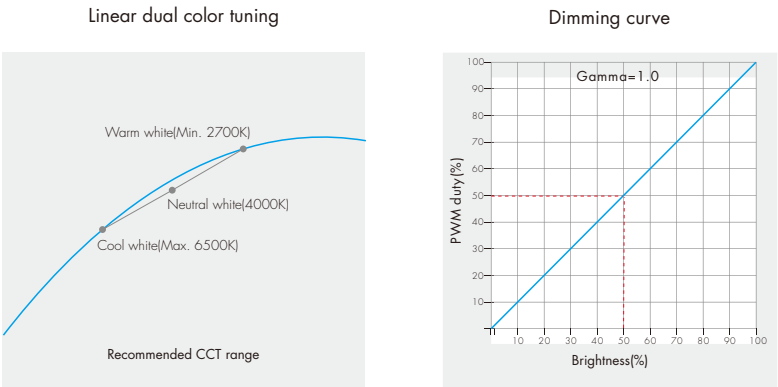
Match:
Switch off the power, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

Delete:
Switch off the power, 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.

Dual Color Control

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	WW=0W,CW=120W	WW=60W,CW=60W	WW=120W,CW=0W



PWM Frequency Setting

At the moment of power-up:
Long press MATCH key for 2s, set PWM frequency to 2KHz, LED indicator flash once.
Long press MATCH key for 5s, set PWM frequency to 8KHz, LED indicator flash twice.
Long press MATCH key for 10s, set PWM frequency to 16KHz, LED indicator flash 3 times.
The factory default PWM frequency is 2KHz.
Higher PWM frequency, will cause lower output current, higher power noise, but more suitable for camera(No flickers for video).

PWM frequency and output current mapping:

$\frac{U_{in}}{I_{out}}$ PWM	2KHz	8KHz	16KHz
12/24V	5A	4A	3A

Installation Precautions

- The products shall not be stacked, the distance should be $\geq 20\text{cm}$, so as not to affect lifespan of the products due to poor heat dissipation.
- The product shall not be installed close to the switching power supply with an interval of $\geq 20\text{cm}$ to avoid radiation interference of the switching power supply.
- The installation height shall be $\geq 1\text{m}$ from the floor to avoid shortening the remote control distance due to too weak reception signal.
- The products are not allowed to be close to or covered by metal objects, with an interval of $\geq 20\text{cm}$ to avoid signal attenuation and shorten the remote distance.
- Avoid installation at the corner of the wall or the corner of the beam, with an interval of $\geq 20\text{cm}$ to avoid signal interference.