

V2-S(WT)

WiFi 2 Colors 2 Wires LED Strip Controller

Features

- Only apply to 2-wires VWW+CW LED strip.
- Tuya smart APP cloud control, support on/off, color temperature and brightness adjust, delay turn on/off light, timer run, scene and music play function.
- Voice control, support for Amazon Alexa, Google Assistant, Tmall Genie and Xiaodu voice assistant.
- Match with RF 2.4G remote control optional.
- Each V2-S(WT) controller can also work as WiFi-RF converter, then use Tuya smart APP to control one or more RF CCT LED controller synchronously.
- Switch 3 levels color temperature(VWW, NW, CW) in consecutive power-on sequence.
- PWM frequency 2KHz, 8KHz or 16KHz selectable.
- Connect with external push switch to achieve on/off and 0-100% dimming function.
- Fade in and out effect selectable.

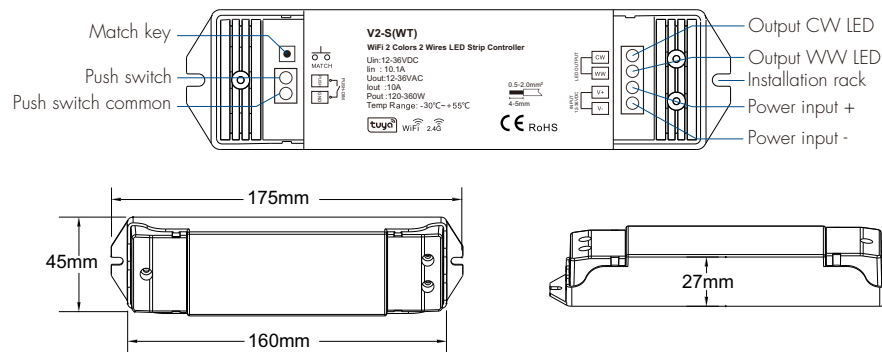


CE RoHS

Technical Parameters

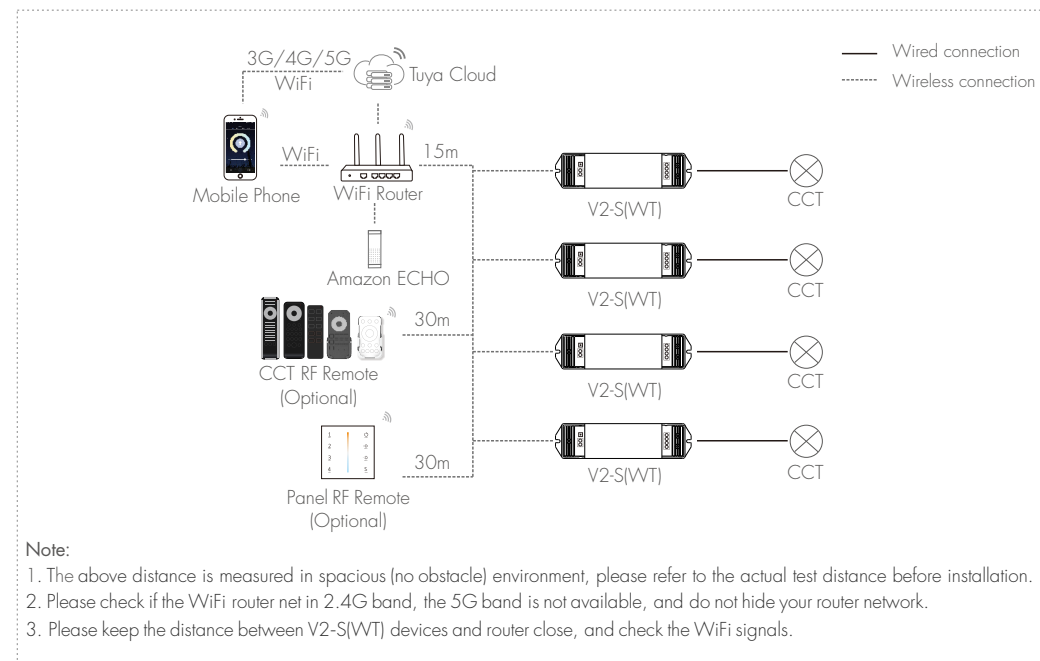
Input and Output		Dimming data		Safety and EMC	
Input voltage	12-36VDC	Input signal	WiFi + RF + Push Dim	EMC standard	EN IEC 55015/ EN IEC 61547ETSI EN 301 489-1/-3/-17
Input current	10.1A	Control distance	30m(Barrier-free space)		
Output voltage	12-36VAC	Dimming gray scale	256 levels	Safety standard	EN 61347-1/-2
Output current	10A	Dimming range	0-100%	Radio Equipment	ETSI EN 300 440 ETSI EN 300 328
Output power	120-360W	Dimming curve	Linear		
Output type	Constant voltage	PWM Frequency	2KHz(default), 8KHz, 16KHz	Certification	CE RoHs
Warranty and Protection		Environment		Package	
Warranty	5 years	Operation temperature	Ta: -30℃ ~ +55℃	Size	L178 x W50 x H38mm
Protection	Reverse polarity	Case temperature (Max.)	Tc: +85℃	Gross weight	0.136kg

Mechanical Structures and Installations



WiFi

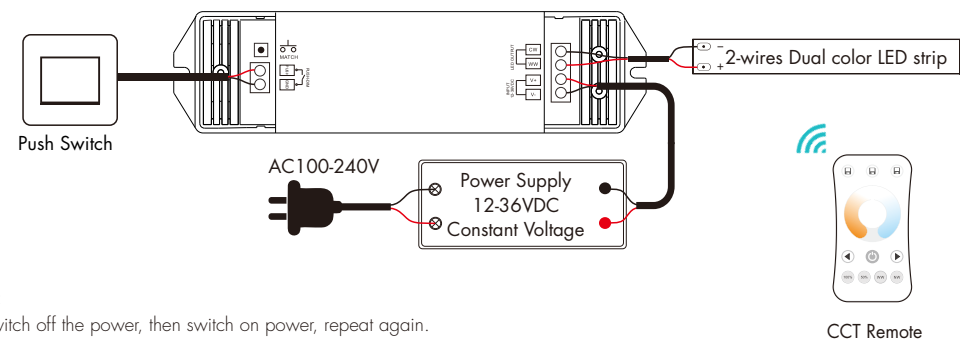
System Wiring



Note:

1. The above distance is measured in spacious (no obstacle) environment, please refer to the actual test distance before installation.
2. Please check if the WiFi router net in 2.4G band, the 5G band is not available, and do not hide your router network.
3. Please keep the distance between V2-S(WT) devices and router close, and check the WiFi signals.

Wiring Diagram



Note:

1. Switch off the power, then switch on power, repeat again.
Immediately short press match key 3 times, the light on/off time will change between 3s and 0.5s.
2. Continuous power off and on operation will change 3 levels color temperature (VWW, NW and CW) in sequence.

Push Dim

Click	ON/OFF
Double Click	Turn on at 100% or 10%(night light) and vice-versa
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

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
12/36V	10A	5A	3A

Tuya Smart APP Network Connection

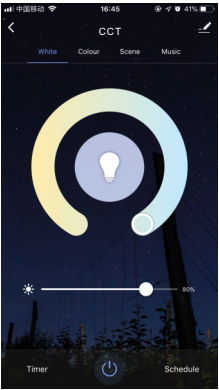
Press and hold Match key for 5s, or push twice Match key fastly:
Clear previous network connection, enter WiFi config mode,
the blue LED indicator flash fastly, the output LED will flash 10 times.

Repeat power on and off for 5 consecutive times, also clear previous
network connection, enter WiFi config mode, the output LED will flash 10 times.

If Tuya smart APP network connection succeed, the blue LED indicator will stop flash,
and in Tuya smart APP, you can find the CCT device.

When controlling the light with Tuya Smart/Smart Life APP,
if the network connection is poor,
you can control the light with Bluetooth connection within the Bluetooth control range.
Note: The light can not be directly controlled by Bluetooth without WiFi configuration.

Tuya Smart APP Interface



Touch color wheel to adjust color temperature.
Touch brightness slide to adjust brightness.

V2-S(WT) Match Remote Control (Optional)

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

Use the V2-S(WT)'s Match key

Match:
Short press match key of V2-S(WT),
immediately press on/off key (single zone remote)
or zone key (multiple zone remote) on the remote.
The LED indicator fast flash a few times means match
is successful.

Delete:
Press and hold match key of V2-S(WT)
for 10s 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 of V2-S(WT), 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 of V2-S(WT), 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.

V2-S(WT) Work as WiFi-RF Converter to Match RF CCT LED 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 the controller,
immediately press on/off key on the Tuya smart APP.
The LED indicator fast flash a few times means match
is successful.

Delete:
Press and hold match key of the controller for 5s,
The LED indicator fast flash a few times means match
was deleted.

Use Power Restart

Match:
Switch off the power of the controller, then switch on power,
repeat again.
Immediately short press on/off key 3 times on the Tuya smart APP.
The light blinks 3 times means match is successful.

Delete:
Switch off the power of the controller, then switch on power,
repeat again.
Immediately short press on/off key 5 times on the Tuya smart APP.
The light blinks 5 times means match was deleted.