

V5-T(WT)

WiFi

WiFi & RF 5 CH LED Controller

Features

- 5-in-1 function, suitable for single color, color temperature, RGB, RGBW, RGB+CCT LED strips.
- Tuya Smart APP cloud control, support on/off, RGB color, color temperature and brightness adjust, delay turn on/off light, timer run, scene edit and music play function.
- Voice control, support for Amazon Alexa, Google Assistant, Tmall Genie and Xiaodu smart speakers.
- Support to turn on/off the light, adjust brightness, color temperature, RGB color, dynamic mode and speed by key.
- Support touch color wheel to adjust brightness, color temperature or RGB color.
- Match with RF 2.4G single or multi-zone 1-5 color remote control optional.
- 4096 level 0-100% smooth dimming, no flicker.
- When used as an RGB/RGB+W/RGB+CCT LED controller, built in 10 RGB dynamic mode, including jump or gradual change style.
- Each V5-T(WT) controller can also work as WiFi+RF converter, then use Tuya APP to control one or more RF controller or driver synchronously.



CE RoHS

Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	12-24VDC	Input signal	WiFi+touch button+RF 2.4GHz	EMC standard	EN IEC 55015/ EN IEC 61547 ETSI EN 301 489-1/-3/-17
Output voltage	5x(12-24)VDC	Control distance	30m((Barrier-free space)	Safety standard	EN 60669-1/-2
Output current	5CH, 3A/CH	Dimming levels	4096 (2^12) levels	Radio standard	ETSI EN 300 440 ETSI EN 300 328
Output power	5x(36-72)W	Dimming range	0 - 100%	Certification	CE RoHS
Output type	Constant voltage	Dimming Curve	Logarithmic	Environment	
		PWM Frequency	2KHz(default)		
Warranty and Protection		Package		Operation temperature	
Warranty	5 years	Size	L110 x VV57 x H28mm	IP rating	
Protection	Anti-reverse	Gross weight	0.072kg		
				Ta: -20℃ ~ +55℃	

Mechanical Structures and Installations

Installation rack

Touch wheel

LED indicator

Static color key

On/Off/brightness key

Power input -

Power input +

LED cool color output -

LED warm color output -

LED blue output -

LED green output -

Dynamic mode key

LED output +

LED red output -

46.00 mm

97.50 mm

20.00 mm

85.00 mm

Setup/Match Key (On top)

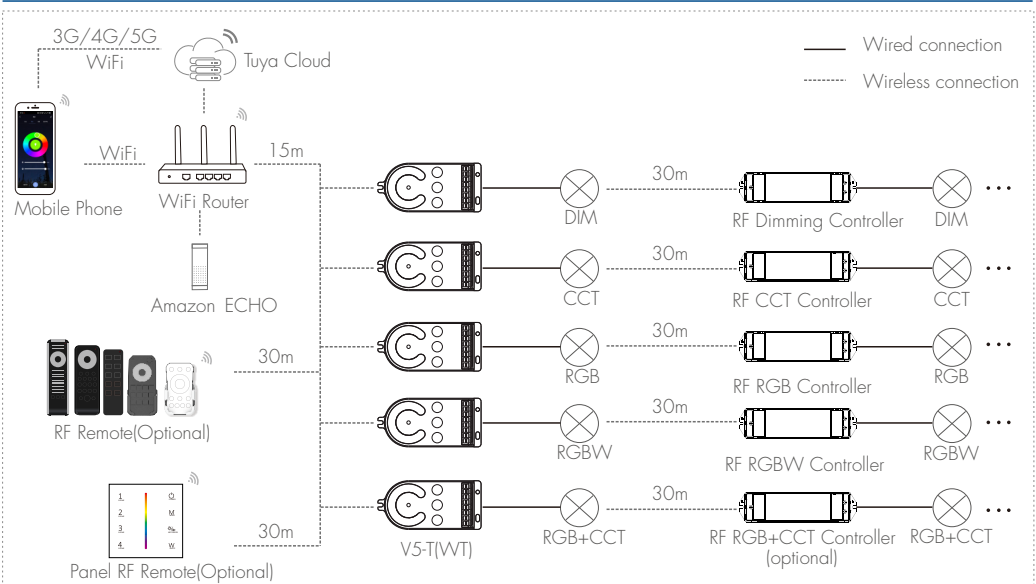
LED indicator:

When the controller is turned on, the LED indicator color follows the current light color output;

When the controller is turned off, the LED indicator shows the current light type color and remains slightly lit.

Factory default setting:
Long press the setup/match key for 15s, the controller restores the factory default settings.
Factory default: Brightness 100%, RGB+CCT light type, unmatched RF remote control, unconnected network.

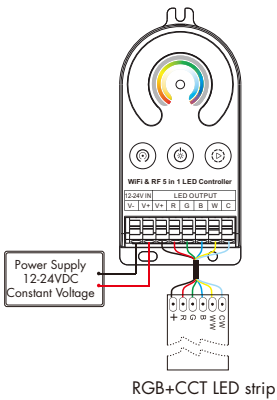
System Wiring



- 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 V5-T(WT) devices and router close, and check the WiFi signals.

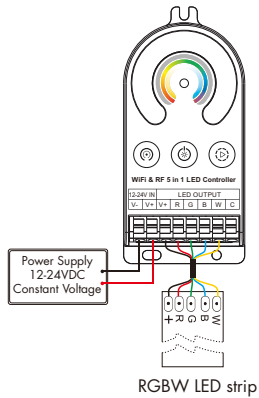
Wiring Diagram and Button Function

- Used for RGB+CCT



- When used as RGB color wheel, touch to adjust the static RGB color. When used as CCT wheel, touch to adjust the color temperature.
- Short press: Switch color light or color temperature, and switch to RGB color wheel or color temperature wheel. Long press: Adjust the color light or color temperature continuously.
- Short press: Turn the light on or off. Long press: Adjust the brightness continuously.
- Short press: Enter dynamic mode, switch 10 dynamic modes in sequence. Long press for 2s: Set 5 speeds sequentially, switch one speed every 2s.

• Used for RGB+W



When used as RGB color wheel, touch to adjust the static RGB color.
When used as white light brightness wheel, touch to adjust the white light brightness.



Short press: Switch color light or white light,
and switch to RGB color wheel or white light brightness wheel.
Long press: Adjust the color light or white light brightness continuously.

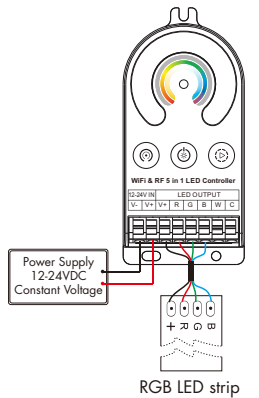


Short press: Turn the light on or off.
Long press: Adjust the brightness continuously.



Short press: Enter dynamic mode, switch 10 dynamic modes in sequence.
Long press for 2s: Set 5 speeds sequentially, switch one speed every 2s.

• Used for RGB



When used as RGB color wheel, touch to adjust the static RGB color.
When used as saturation wheel, touch to adjust the current color saturation of the color.



Short press: Switch color light or mixed white light
(current color + 50% saturation),
and switch to RGB color wheel or saturation wheel.
Long press: Adjust the color light or color saturation continuously.

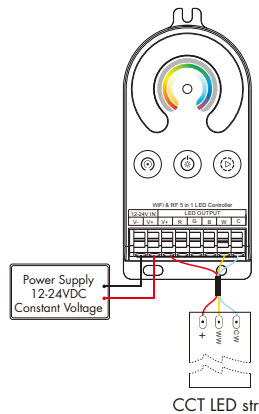


Short press: Turn the light on or off.
Long press: Adjust the brightness continuously.



Short press: Enter dynamic mode, switch 10 dynamic modes in sequence.
Long press for 2s: Set 5 speeds sequentially, switch one speed every 2s.

• Used for CCT



Touch to adjust the color temperature.



Short press: Enter static mode, switch 3 color temperatures in sequence
(Warm White - Natural White - Cool White).
Long press: Adjust the color temperature continuously.

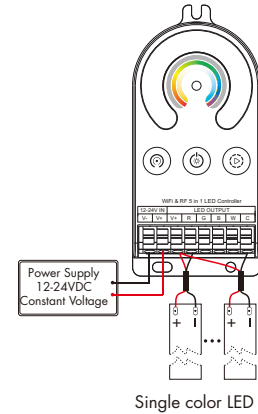


Short press: Turn the light on or off.
Long press: Adjust the brightness continuously.



Enter the color temperature fade dynamic mode
and switch 5 speeds in sequence.

• Used for DIM



Touch to adjust the brightness.



Enter static mode, sequentially switching
5 levels of brightness(10%, 25%, 50%, 75%, 100%).



Short press: Turn the light on or off.
Long press: Adjust the brightness continuously.



Enter fade-in and fade-out dynamic mode,
and switch 5 speeds in sequence.

Note:

When the RGB/RGB+W/RGB+CCT light type is in static mode, long-press  button can also adjust the color saturation.

Light Type Setting

User need to set the correct light type via the setup key before matching the RF remote control.
Long press the setup key to switch 5 light types sequentially, every long press 2s to switch one,
the LED indicator turns to the corresponding color.

Light type	DIM	CCT	RGB	RGB+W	RGB+CCT
LED indicator color	white	yellow	red	green	blue

Note:

For RGB+W light type, RGB channel and W channel can not be turned on at the same time;
For RGB+CCT light type, RGB channel and CCT channel can not be turned on at the same time.

Tuya Smart APP Network Connection

• Download and open APP

Search for "Tuya Smart/Smart Life APP" in the app store,
or scan the QR code on the right to download the APP.
Register and login after installation.

• APP Pairing Network

Press and hold match key for 5s, or push twice match key fastly,
or repeat power off and on for 5 consecutive times fastly.
Clear previous network connection by these three ways,
enter WiFi config mode, the LED indicator flash fastly, the output LED strip blinks 10 times.
If Tuya smart APP network connection succeed, the LED indicator will stop flash
and change to the corresponding light type color,
you can find RGB+CCT device (or other DIM, CCT, RGB, RGBW device) in Tuya smart APP.

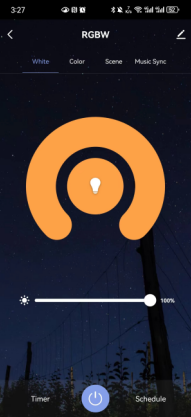


Smart Life



Tuya Smart

● APP operation

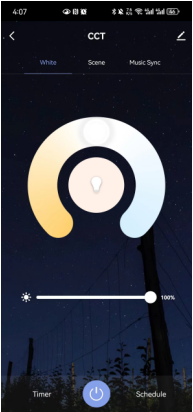


White interface

For DIM type:
Touch brightness slide,
to adjust the brightness.

For RGB type:
Touch brightness slide,
get RGB mixed white firstly,
then to adjust white brightness.

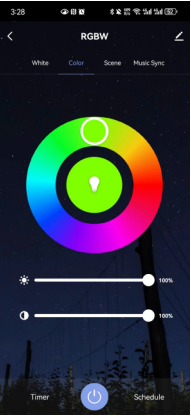
For RGBW type:
Touch brightness slide,
adjust white channel brightness.



Color temperature interface

For CCT type:
Touch color wheel to
adjust color temperature.
Touch brightness slide to
adjust brightness.

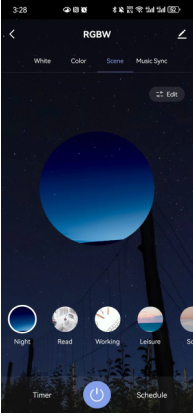
For RGB+CCT type:
Touch color temperature wheel
to adjust color temperature,
and RGB channels will be
automatically turned off.
Touch brightness slide to adjust
color temperature brightness.



Color interface

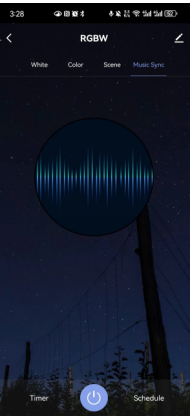
For RGB, RGB+W, RGB+CCT type:
Touch color wheel to adjust static
RGB color.
Touch brightness slide to adjust
color brightness.
Touch saturation slide to adjust
color saturation,
namely gradient from the current
color to white (RGB mixed).

Note: For RGB+W, RGB+CCT type,
when touching the color wheel
to adjust the static RGB color,
the W channel or color temperature
will be turned off automatically.



Scene interface

The 1-8 scene can be edited.
3 ways of color change can
be set: Static, Jump, Breathing.
The color change speed can
be set for the jump change
and breathing change.



Music, Timer, Schedule

The music play can use smart phone music player or micro-phone as music signal input.

The Timer key can turn on or turn off light in the next 24 hours.

The Schedule key can add multiple timers to turn on or turn off light according to different time periods.

V5-T(WT) Match with RF Remote Control

There are two ways to match/delete:

Use 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 indicator blinks means match is successful.

Delete:
Press and hold match key for 10s to delete all match,
The LED indicator blinks 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.

V5-T(WT) Work as WiFi-RF Converter

V5-T(WT) as WiFi-RF converter matched with RF LED controller or RF dimmable LED driver,
There are two ways to match/delete:

Use Controller's/driver's Match key

Match:
Short press controller's or driver's match key,
immediately press the on/off button on the Tuya Smart APP.
The LED indicator fast flash means match is successful.

Delete:
Long press controller's or driver's match key
for 5s to delete all match.
The LED indicator fast flash means all matched remotes
were deleted.

Use Power Restart(optional)

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

Delete:
Switch off the power of the controller, then switch on power,
repeat again.
Immediately press the on/off button on the Tuya Smart APP 5 times.
The light flashes 5 times means all matched remotes were deleted.

Dynamic Change Mode

Used for RGB/RGB+W:

No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Yellow cyan purple smooth	10	White fade in and out

Used for RGB+CCT:

No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Color temperature smooth	10	White fade in and out