

VD4(WT)

3-Button WiFi & RF RGBW LED Controller

WiFi & RF



CE RoHS

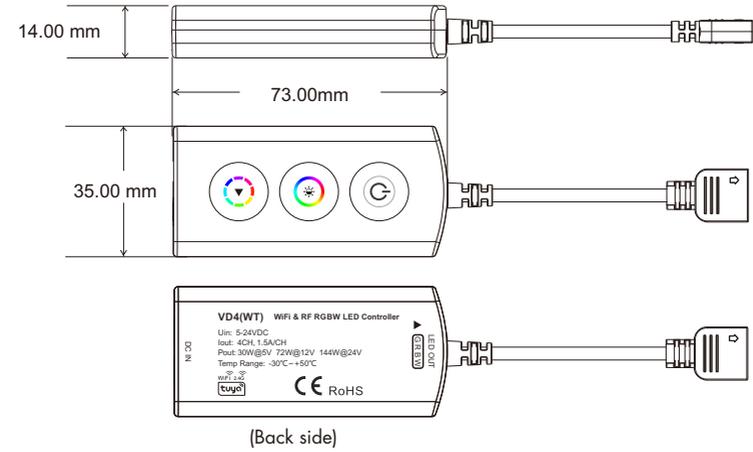
Features

- WiFi & RF 4 channel constant voltage RGBW LED controller.
- Tuya smart APP cloud control, support on/off, RGB color, 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 voice assistant.
- 3 buttons operation with on/off, mode and color adjustment.
- Match with RF 2.4G single zone or multiple zone RGBW remote control optional.
- 256 levels 0-100% dimming smoothly without any flash.
- Built in 10 dynamic modes, include jump or gradual change style.

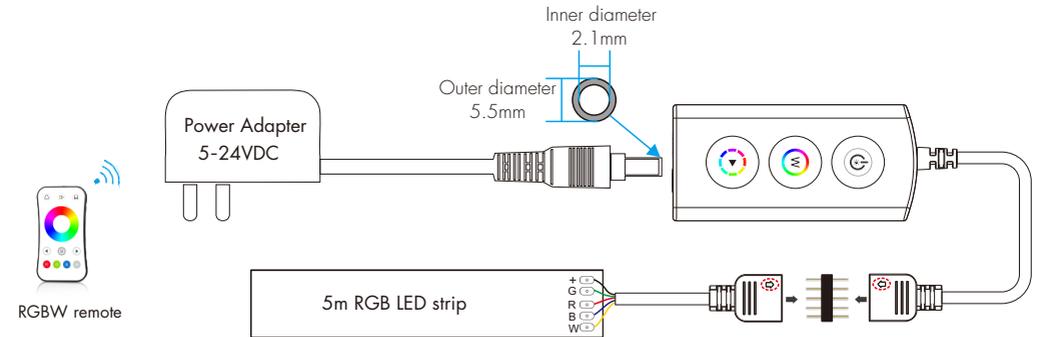
Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	5-24VDC	Input signal	WiFi + RF 2.4GHz + 3 button	EMC standard	EN IEC 55015/ EN IEC 61547 ETSI EN 301 489-1/-3/-17
Output voltage	5-24VDC	Control distance	30m(Barrier-free space)	Safety standard	EN 61347-1/-2
Output current	4CH, 1.5A/CH	Dimming level	256 levels	Radio Equipment	ETSI EN 300 440 ETSI EN 300 328
Output power	30W@5V 72W@12V 144W@24V	Dimming range	0-100%	Certification	CE RoHS
Environment		Dimming curve	Logarithmic	Package	
Operation temperature	Ta: -30°C ~ +50°C	PWM Frequency	2KHz (default)	Size	L120 x W43 x H27mm
Case temperature (Max.)	Tc: +85°C	Warranty	5 years	Gross weight	0.013kg
		Protection	Over-heat		

Dimension



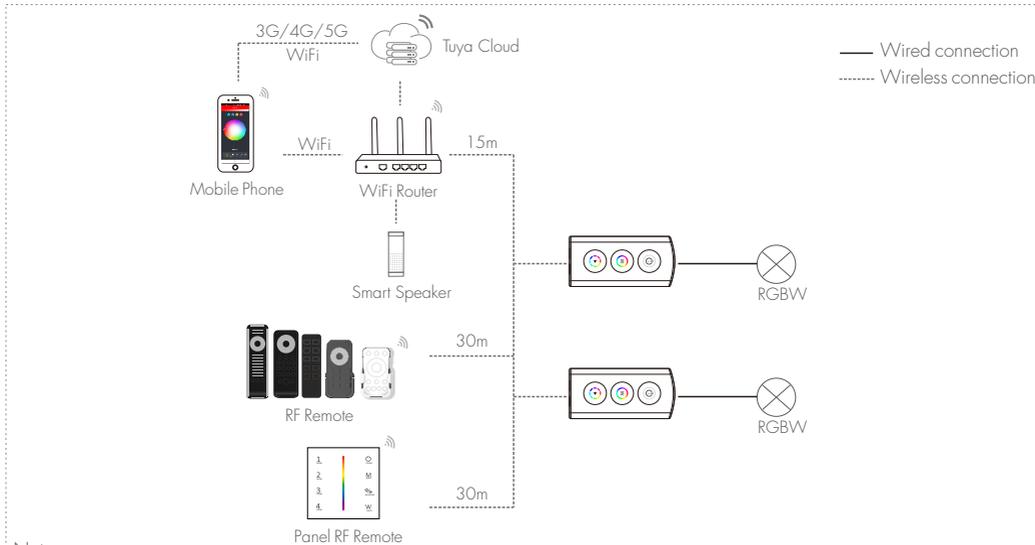
Wiring Diagram



Note:

1. Press and hold the and button for 2s, output LED flashes 3 times, the light on/off fade time will change between 3s and 0.5s.
2. Press and hold the , and button for 2s, output LED flashes multiple times, switch between "GRBW" (flashes 1 times), "RGBW" (flashes 2 times), and "GRWB" (flashes 3 times) output sequences.
3. Press and hold the and button for 10s, output LED flashes 7 times, the controller restores the factory default settings.
Factory default: Switch fade time 0.5s, strip sequence GRBW.

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 VD4(WT) devices and router close, and check the WiFi signals.
4. WiFi signal strength detection: open the main interface of social security, click enter the device interface, click "check device network" for testing.

Button Function

: Short press to turn on or off light, long press 1-6s to adjust 256 levels brightness continuously.

: Short press to switch between White or RGB colours.
When in White state, press and hold for 1-6s to continuously adjust White brightness.
When in RGB colour state, press and hold to switch between 24 kinds static RGB colours.

: Short press to change 10 dynamic mode, long press 2s to adjust speed, 10 levels.

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 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

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 and for 5s:

clear previous network connection, enter WiFi config mode, 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 output LED will stop flash, and in Tuya Smart APP, you can find RGBWc 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.

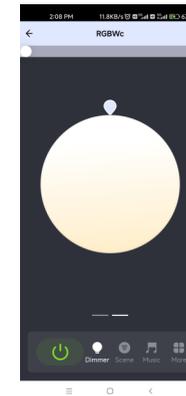
Note: The light can not be directly controlled by Bluetooth without WiFi configuration.



Smart Life

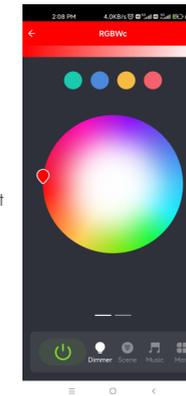
Tuya Smart

Tuya Smart APP Interface



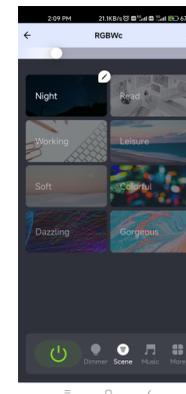
White interface

Touch the brightness slide to adjust the brightness of the white light.



Colour interface

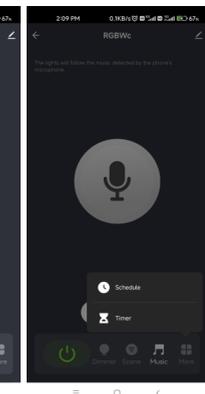
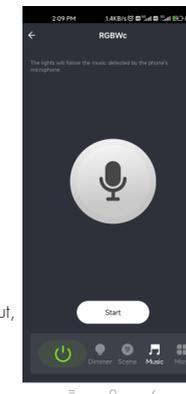
Touch color circle to adjust static RGB color.
Touch brightness slide to adjust color brightness.



Scene interface

The 1-4 scene is static color. the inner color of these scene can be editable.

The 5-8 scene is dynamic mode, such as green fade in and fade out, RGB jump, 6 color jump, 6 color smooth.



Music, Schedule, Timer

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

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

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

Match Remote Control (optional)

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

Use  and  button

Match:

Long press  and  button 2s, the output LED blinks 2 times, immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote. The output LED blinks 3 times means match is successful.

Delete:

Press and hold  and  button for 5s to delete all match, The output LED blinks 5 times means all matched remotes were deleted.

Use Power Restart

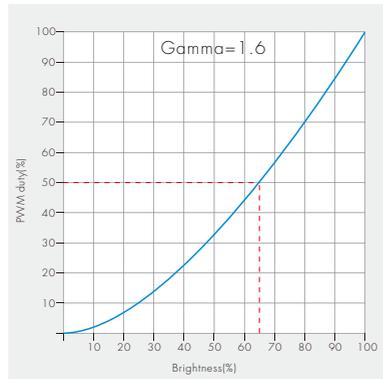
Match:

Switch off the power, then switch on power again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The output LED blinks 3 times means match is successful.

Delete:

Switch off the power, then switch on power again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote. The output LED blinks 5 times means all matched remotes were deleted.

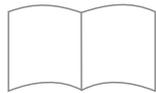
Dimming Curve



Packing List



LED Controller
1 pcs



User Manual
1 pcs



Extension Cable
(12cm)
1 pcs



5-Pin Plug
1 pcs