VD5(WT)

WiFi

3-Button WiFi & RF RGB+CCT LED Controller

● WiFi & RF 5 channel constant voltage RGB+CCT LED controller.

● Tuya 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 voice assistant.

● 3 buttons operation with on/off, dynamic mode, brightness,
   color temperature and color adjustment.

● Match with 2.4G single zone or multiple zone RGB+CCT remote control optional.

● 256 levels 0-100% dimming smoothly without any flash.

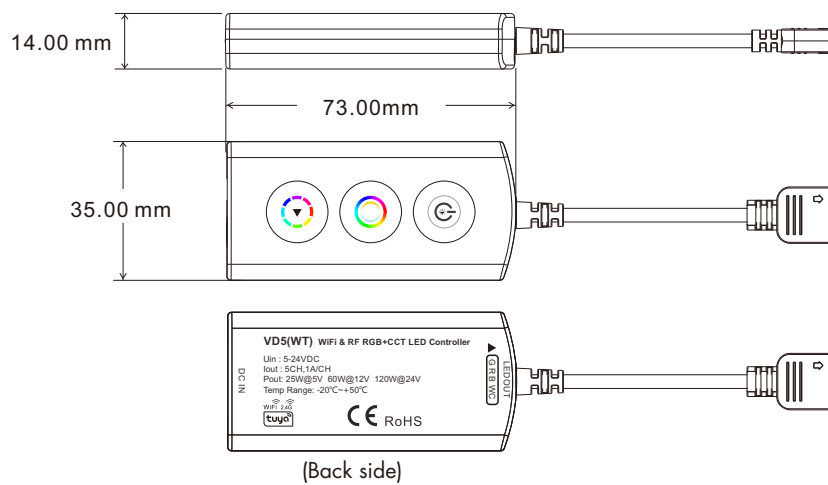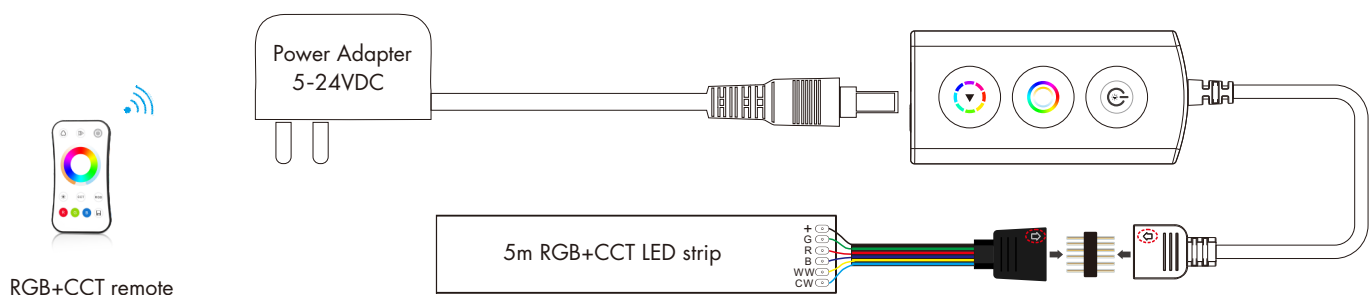● Built in 10 dynamic modes, include jump or gradual change style.

CE RoHS emc RED

Technical Parameters

Input and Output		Dimming data		Safety and EMC	
Input voltage	5-24VDC	Input signal	WiFi + RF 2.4GHz + 3 button	EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Output voltage	5-24VDC	Control distance	30m(Barrier-free space)		
Output current	5CH, 1A/CH	Dimming level	256 levels	Safety standard	EN 62368-1:2020+A11:2020
Output power	25W@5V 60W@12V 120W@24V	Dimming range	0-100%	Radio Equipment (RED)	ETSI EN 300 328 V2.2.2
		Dimming curve	Logarithmic	Certification	CE, EMC, RED
Environment		PWM Frequency	2KHz (default)	Package	
Operation temperature	Ta: -20℃ ~ +55℃	Warranty	5 years	Size	W120 x L43 x H27mm
Case temperature (Max.)	Tc: +85℃	Protection	Over-heat	Gross weight	0.057kg

Dimension

14.00 mm

73.00mm

35.00 mm

VD5(WT) WiFi & RF RGB+CCT LED Controller
Uin : 5-24VDC
Iout : 5CH,1A/CH
Pout: 25W@5V 60W@12V 120W@24V
Temp Range: -20℃~+50℃
WiFi 2.4G
tuya   CE RoHS

(Back side)

Wiring Diagram

Power Adapter
5-24VDC

RGB+CCT remote

5m RGB+CCT LED strip

+
G
R
B
WW
CW

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 VD5(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 / off light.
Long press for 1-6s,
in color light state,continuous adjustment brightness of color light;
in color temperature state,continuous adjustment brightness of color temperature.

⟨◯⟩ : Short press switch between color light and color temperature.
At the same time, enter the long press1-6s to adjust color light
or color temperature state.

⟨▶⟩ : 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	Color temperature smooth	10	White fade in and out

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 "GRBWC" (flashes 1 times),"RGBWC" (flashes 2 times),
"BRGWC" (flashes 3 times) , "RGBCW" (flashes 4 times) and "WGRBC" (flashes 5 times) output sequences, default is GRBWC.

Tuya APP network connection

Please download the corresponding tuya/smart life APP according to your region.

Press and hold ⟨⏻⟩ and ⟨◯⟩ button for 2s:
clear previous network connection, enter Smart config mode, the output LED flash 10 times.

Press and hold ⟨⏻⟩ and ⟨◯⟩ button for 5s:
Clear previous network connection, enter AP config mode, the output LED flash 5 times.
If smart config failed, please try AP config.

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

If Tuya APP network connection succeed, the output LED will stop flash,
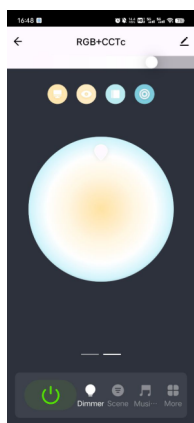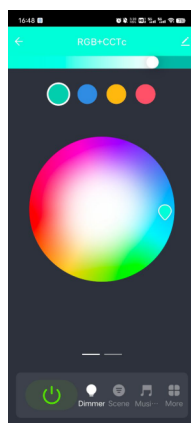and in Tuya APP, you can find RGB+CCT device .


Smart life APP   Tuya APP

Tuya APP interface

Color Temperature interface

Touch color wheel to adjust color temperature, RGB will turn off automatically.
Touch brightness slide to adjust white brightness.

Colour interface

Touch color wheel to adjust static RGB color, WW/CW will turn off automatically.
Touch brightness slide to adjust color brightness.
Touch saturation slide to adjust color saturation, namely gradient from the current color to white (RGB mixed).
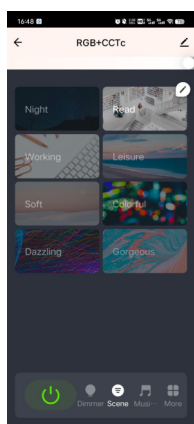
Scene interface

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.
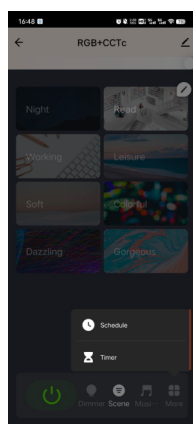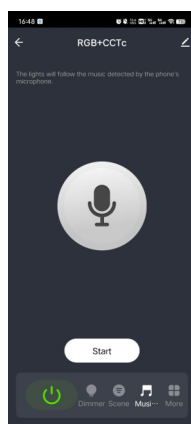
Music, Timer, Schedule

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 (two match ways)

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

Use ⭕ and ◉ button

Match:
Long press ⭕ and ◉ button 2s,
immediately press on/off key (single zone remote)
or zone key (multiple zone remote) of the remote.

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.
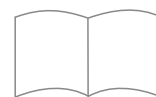The output LED blinks 5 times means all matched remotes were deleted.

Dimming curve
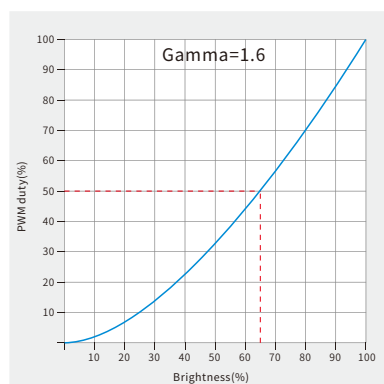
Packing List

LED Controller
1 pcs

User Manual
1 pcs

Extension Cable
(12cm)
1 pcs

6-Pin Plug
1 pcs