

3-Button WiFi & RF RGB LED Controller

Model No.: VD3(WT)

3 channel constant voltage / Tuya APP cloud control / Voice control / 3-button / Wireless remote control / Step-less dimming



Features

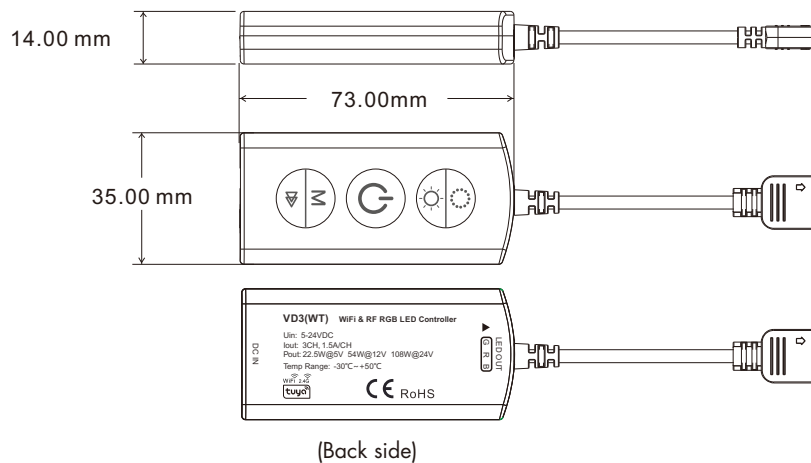
CE RoHS RED

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

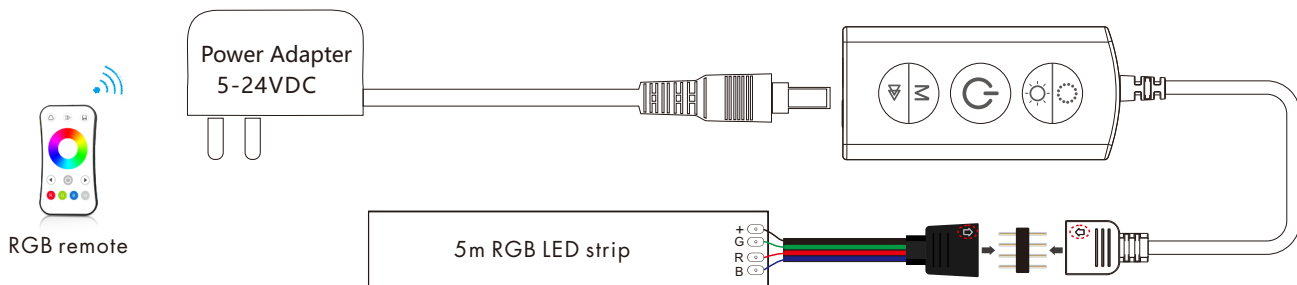
Technical Parameters

| Input and Output | | Dimming data | | Safety and EMC | |
|-------------------------|---------------------------------|------------------|---------------------------------|----------------------|---|
| Input voltage | 5-24VDC | Input signal | Tuya APP + 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) | Safety standard | EN 62368-1:2020+A11:2020 |
| Output current | 3CH, 1.5A/CH | Dimming level | 256 levels | Radio Equipment(RED) | ETSI EN 300 328 V2.2.2 |
| Output power | 22.5W@5V 54W@12V 108W@24V | Dimming range | 0-100% | Certification | CE,EMC,RED |
| Environment | | Dimming curve | Logarithmic | Package | |
| Operation temperature | Ta: -30°C ~ +50°C | PWM Frequency | 2KHz (default) | Size | W114 x L38 x H26mm |
| Case temperature (Max.) | Tc: +85°C | Warranty | 5 years | Gross weight | 0.013kg |
| | | Protection | Over-heat | | |

Dimension



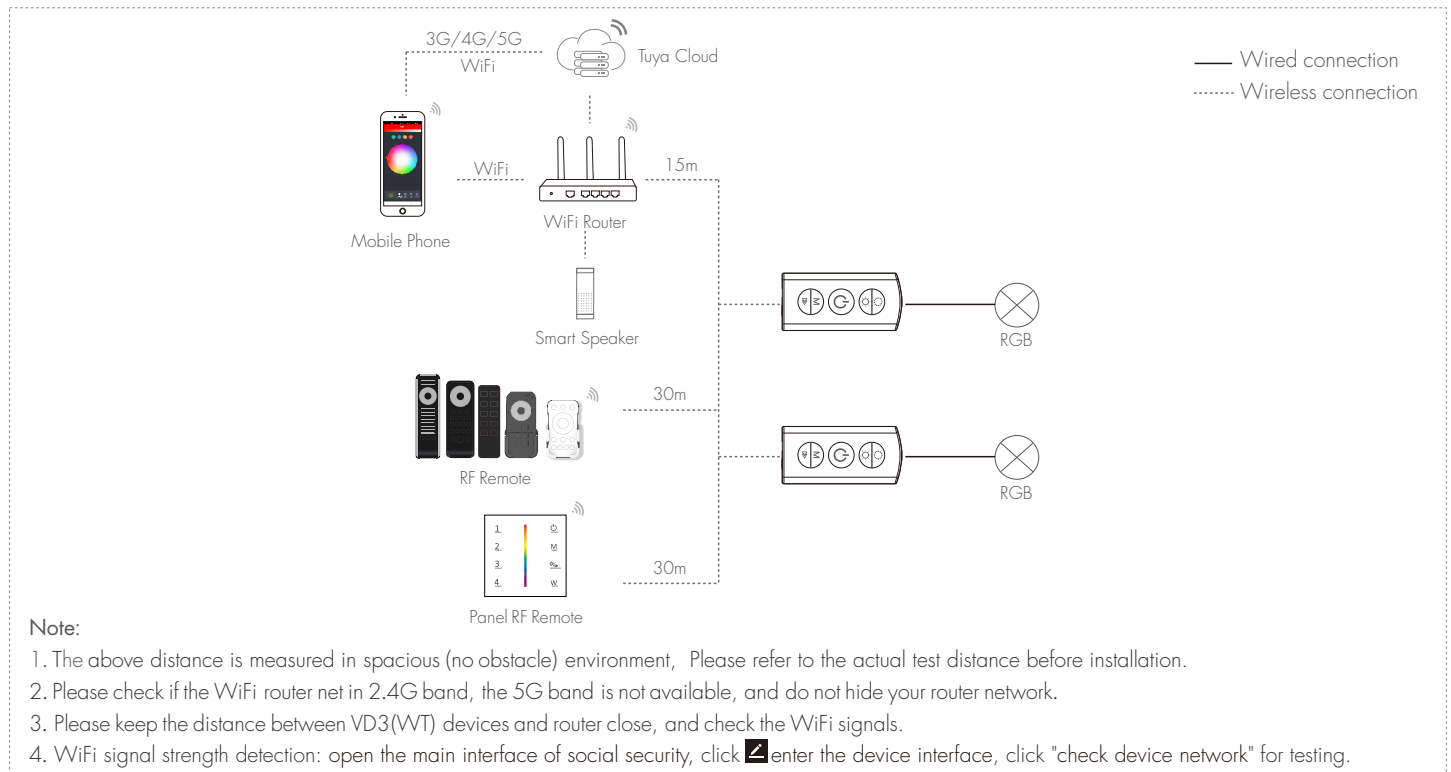
Wiring Diagram



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 "GRB" (flashes 1 times), "RGB" (flashes 2 times), "BRG" (flashes 3 times) and "BGR" (flashes 4 times) output sequences, default is GRB.

System wiring



Button function



: Short press to change 24 static RGB color, long press for 1-6s to adjust 256 levels brightness continuously.



: Turn on or off light.



: 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 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 fastly.

Press and hold and button for 5s:
Clear previous network connection, enter AP config mode, the output LED flash slowly.
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 RGBc device .

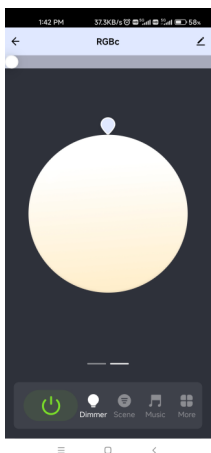


Smart life APP



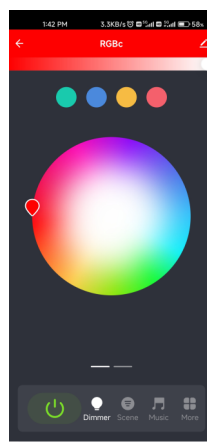
Tuya APP

Tuya APP interface



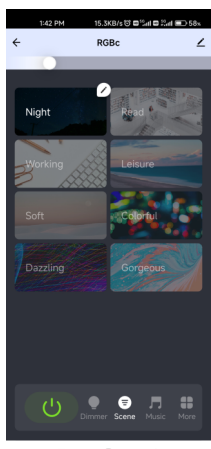
White interface

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



Colour interface

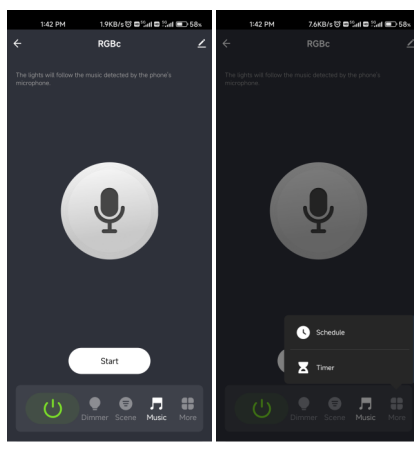
Touch color circle to adjust static RGB color. Touch brightness slide to adjust color brightness.



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, 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

