WiFi & RF 3-Button LED Dimmer

Model No.: VD1(WT)

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

Features

● WiFi & RF 1 channel constant voltage single color LED dimmer.

● 5A output, connect with 5 meters single color LED strip.

● Tuya APP cloud control, support on/off, brightness adjust, delay turn on/off light, timer run, scene edit function.

● Voice control, support for Amazon Alexa, Google Assistant, Tmall Genie and Xiaodu smart speakers.

● 3 button operation with on/off and dimming.

● Match with 2.4G single zone or multiple zone single color remote control optional.

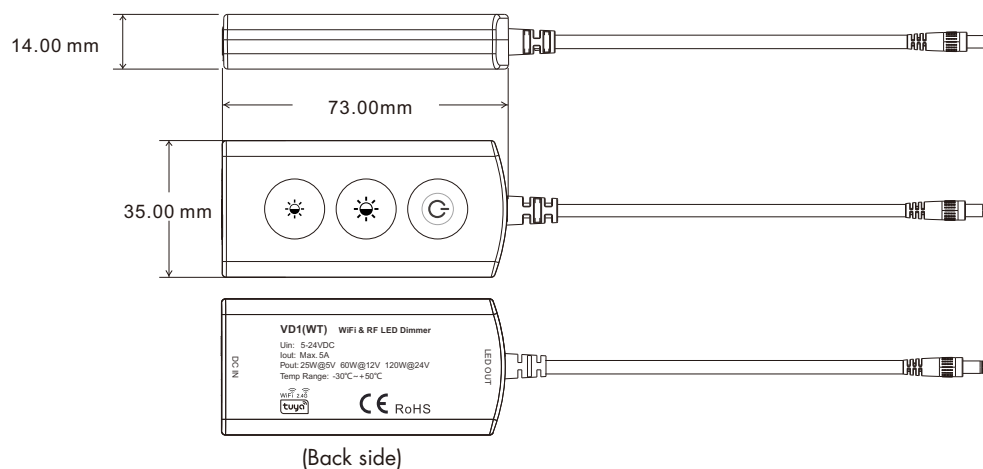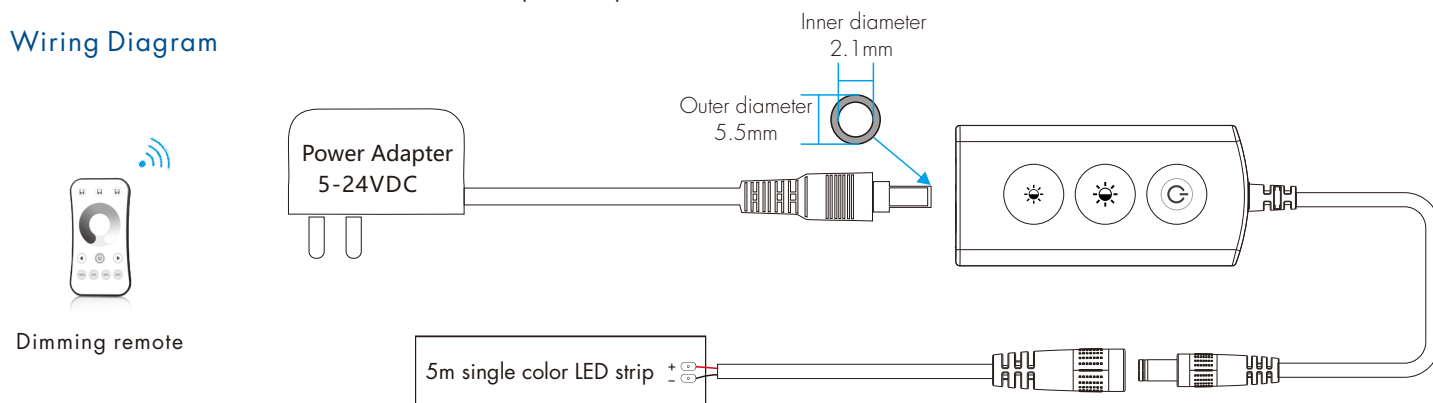● 4096 levels 0-100% dimming smoothly without any flash.

CE RoHS emc RED

Technical Parameters

Input and Output	
Input voltage	5-24VDC
Output voltage	5-24VDC
Output current	Max. 5A
Output power	25W@5V 60W@12V 120W@24V

Environment	
Operation temperature	Ta: -30℃ ~ +50℃
Case temperature (Max.)	Tc: +85℃

Dimming data	
Input signal	Tuya APP + RF 2.4GHz + 3 button
Control distance	30m(Barrier-free space)
Dimming level	4096 (2^12) levels
Dimming range	0 - 100%
Dimming curve	Logarithmic
PWM Frequency	2KHz (default)
Warranty	5 years
Protection	Over-heat, Short circuit

Safety and EMC	
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard	EN 62368-1:2020+A11:2020
Radio Equipment(RED)	ETSI EN 300 328 V2.2.2
Certification	CE,EMC,RED

Package	
Size	W120 x L43 x H27mm
Gross weight	0.013kg

Dimension

14.00 mm

73.00mm

35.00 mm

VD1(WT) WiFi & RF LED Dimmer
Uin: 5-24VDC
Iout: Max.5A
Pout: 25W@5V 60W@12V 120W@24V
Temp Range: -30℃~+50℃

DC IN

LED OUT

wifi 2.4G tuya CE RoHS

(Back side)

Wiring Diagram

Inner diameter
2.1mm

Outer diameter
5.5mm
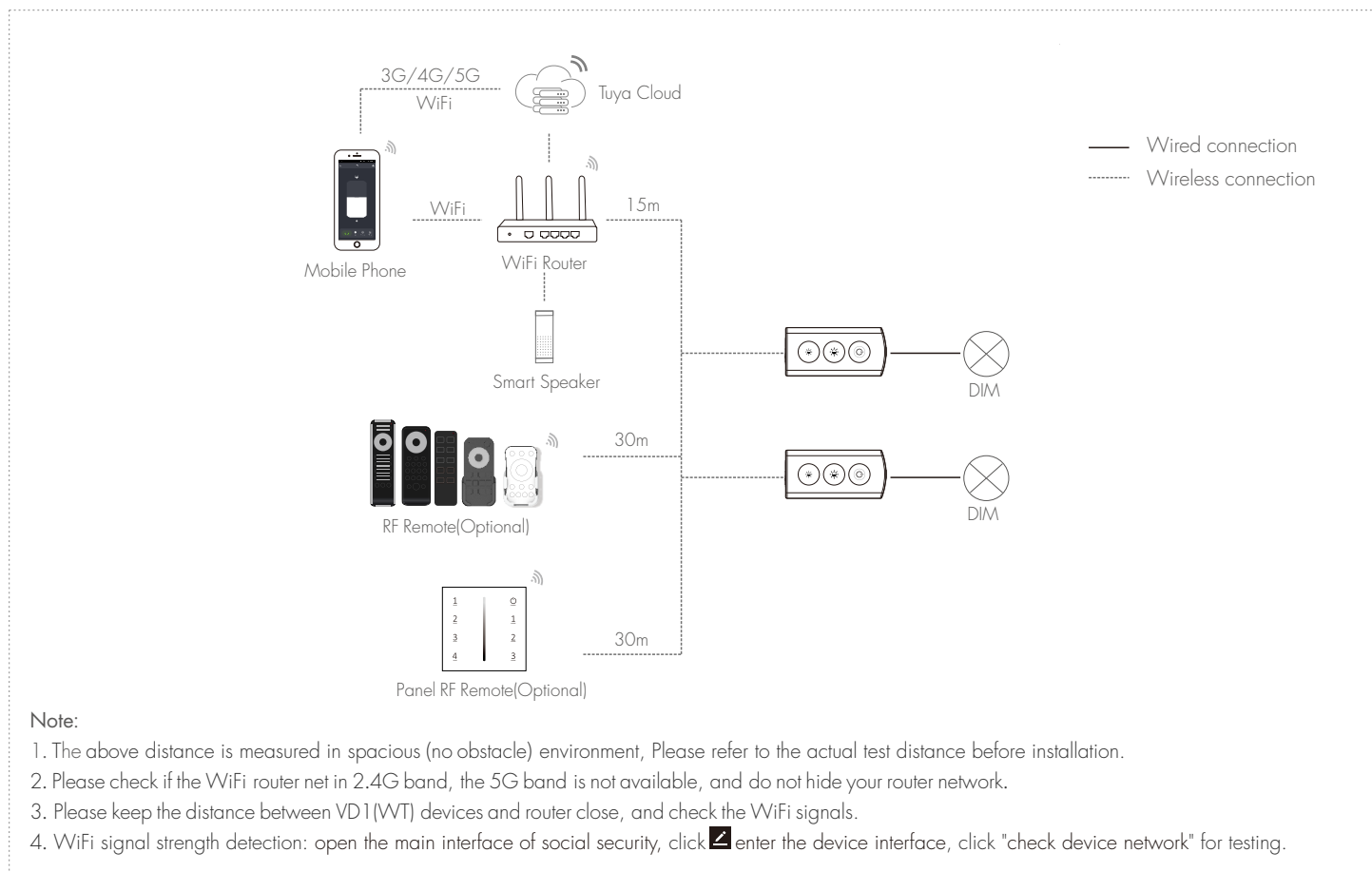
Power Adapter
5-24VDC

Dimming remote

5m single color LED strip

Note: Press and hold the (⏻) and (☀) (Brightness-) button for 2s, output LED flashes 3 times, the light on/off fade time will change between 3s and 0.5s.

System Wiring

3G/4G/5G WiFi — Tuya Cloud

—— Wired connection
········· Wireless connection

Mobile Phone

WiFi — WiFi Router — 15m

Smart Speaker

RF Remote(Optional) — 30m — DIM / DIM

Panel RF Remote(Optional) — 30m

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 VD1(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

⏻ : Turn on or off light.

☀ : Brightness +, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.

☀ : Brightness -, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.

Tuya APP network connection

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

Press and hold ⏻ and ☀ (Brightness+) button for 2s:
clear previous network connection, enter Smart config mode, the output LED will flash 10 times.

Press and hold ⏻ and ☀ (Brightness+) button for 5s:
Clear previous network connection, enter AP config mode, the output LED will 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,
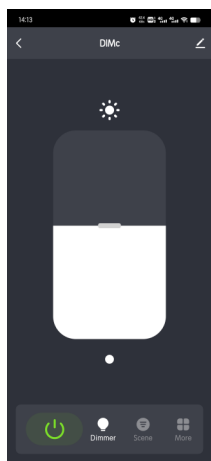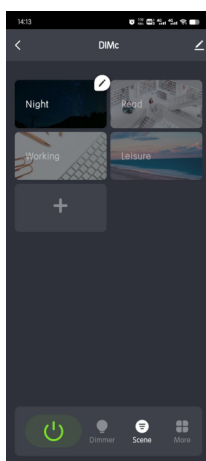and in Tuya APP, you can find DIMc device .
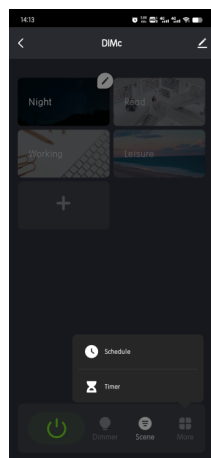
Smart life APP   Tuya APP

Tuya APP interface

White interface
Touch brightness slide to adjust brightness.

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

Timer, Schedule

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.
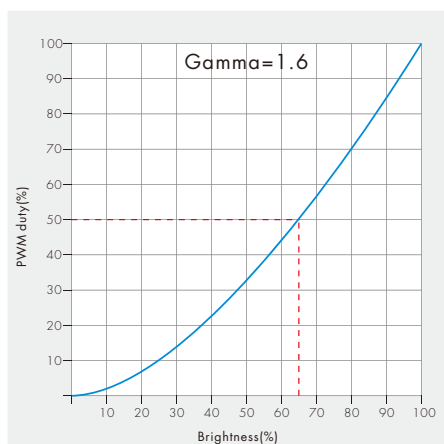
Use Power Restart

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 Dimmer
1 pcs

User Manual
1 pcs

DC Extension Cable
(12cm)
1 pcs