VD1(WT)

WiFi & RF 3-Button LED Dimmer

WiFi & RF

Features

- WiFi & RF 1 channel constant voltage single color LED dimmer.
- 5A output, connect with 5 meters single color LED strip.
- Tuya smart 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 voice assistant.
- 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.
- Available in white or black.

FC CE RoHS

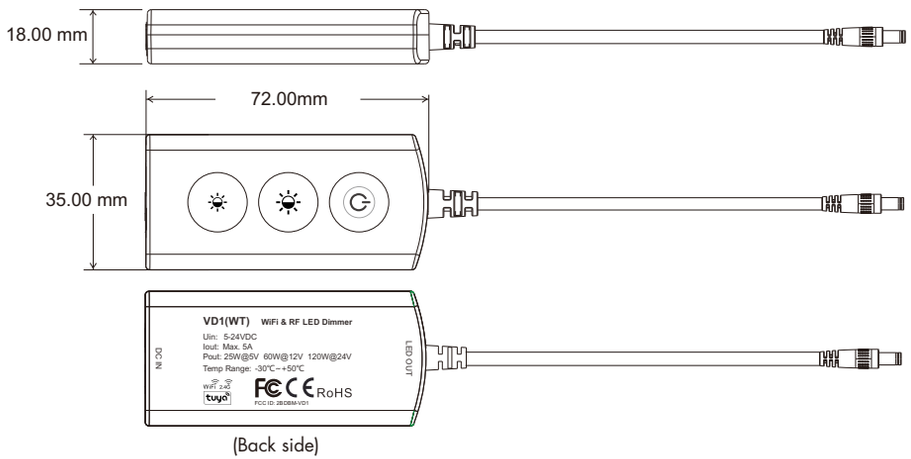
Technical Parameters

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°C ~ +50°C
Case temperature (Max.)	Tc: +85°C

Dimming data	
Input signal	WiFi + 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

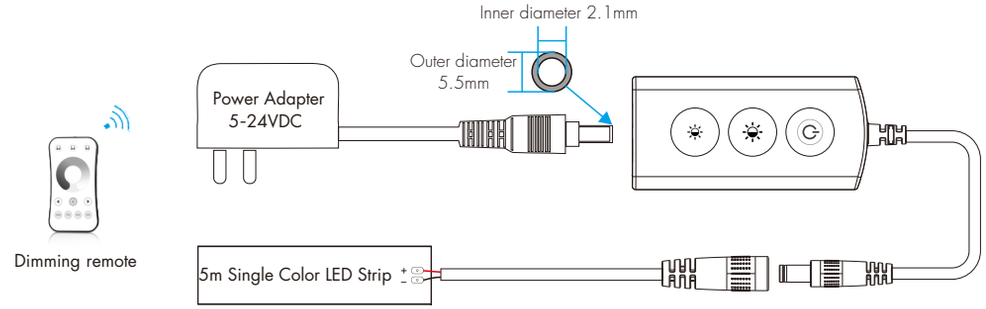
Safety and EMC	
EMC standard	EN IEC 55015/ EN IEC 61547 ETSI EN 301 489-1/-3/-17
Safety standard	EN 61347-1/-2
Radio Equipment	ETSI EN 300 440 ETSI EN 300 328
Certification	CE RoHS FCC
Package	
Size	L120 x W43 x H27mm
Gross weight	0.013kg

Dimension



(Back side)

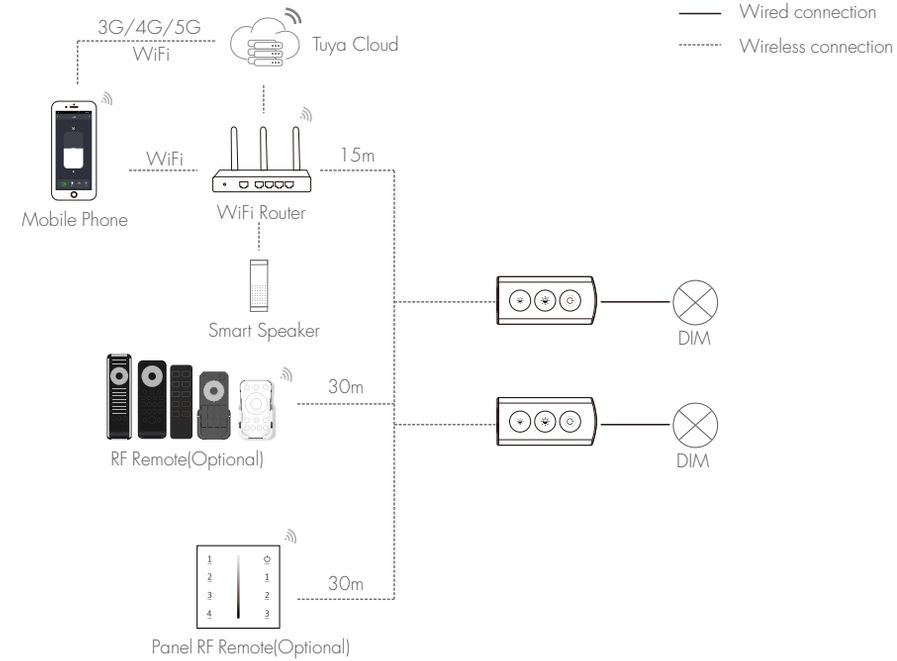
Wiring Diagram



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



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.

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.

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 (Brightness+) button 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 DIMc device.

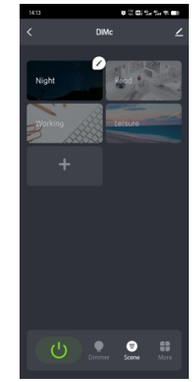
When controlling the light with Tuya Smart/Smart Life APP, if the network connection is poor, you can control the light with Bluetooth connection within the Bluetooth control range.
Note: The light can not be directly controlled by Bluetooth without WiFi configuration.

Smart Life Tuya Smart

Tuya Smart APP Interface

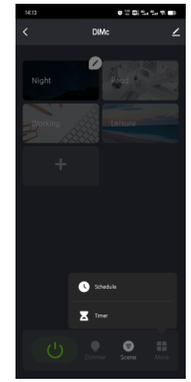
White interface

Touch brightness slide to adjust brightness.



Scene interface

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

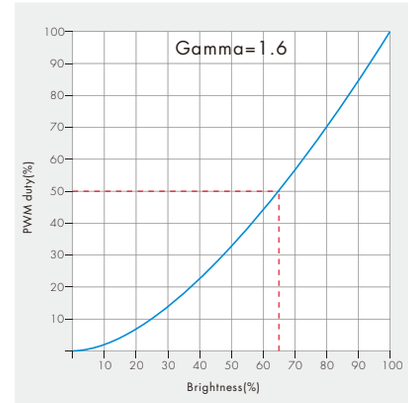


Timer, Schedule

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.

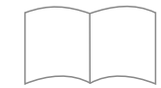
Dimming Curve



Packing List

White:

LED Dimmer
1 pcs

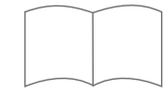


User Manual
1 pcs

DC Extension Cable (12cm)
1 pcs

Black:

LED Dimmer
1 pcs



User Manual
1 pcs

DC Extension Cable (12cm)
1 pcs

Statement

FCC ID Statement:
Mobile
RF Exposure Information
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.