

# tuya WT5 WiFi and RF 5 in1 LED Controller Instruction Manual

## Contents

- [1 WT5 WiFi and RF 5 in1 LED Controller](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
  - [3.1 Documents / Resources](#)

## WT5 WiFi and RF 5 in1 LED Controller

---

### Product Information

**Product Name:** WiFi & RF 5 in 1 LED Controller

**Model No.:** WT5

#### Features:

- 5 in 1 function, used for control RGB, RGBW, RGB+CCT, color temperature or single color LED strip
- DC power socket input and 5 channel constant voltage output
- 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 amazon ECHO and TmallGenie smart speaker
- Match with RF 2.4G remote control optional
- User need set light type by press key before Tuya APP network connection and match RF remote of the same light type
- Each WT5 controller can also work as WiFi-RF converter, then use Tuya APP to control one or more RF LED controller or RF LED dimming driver synchronously
- Light on/off fade time 3s selectable

#### Technical Parameters:

- Input voltage: 12-24VDC

- Input current: 15.5A
- Output voltage: 5 x (12-24)VDC
- Output current: 5CH,3A/CH
- Output power: 5 x (36-72)W
- Output type: Constant voltage
- Dimming data: Tuya APP+RF 2.4GHz
- Control distance: 30m (Barrier-free space)
- Dimming gray scale: 4096 ( $2^{12}$ ) levels
- Dimming range: 0 – 100%
- Dimming curve: Logarithmic
- PWM frequency: 1000Hz (default)

### Safety and EMC:

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

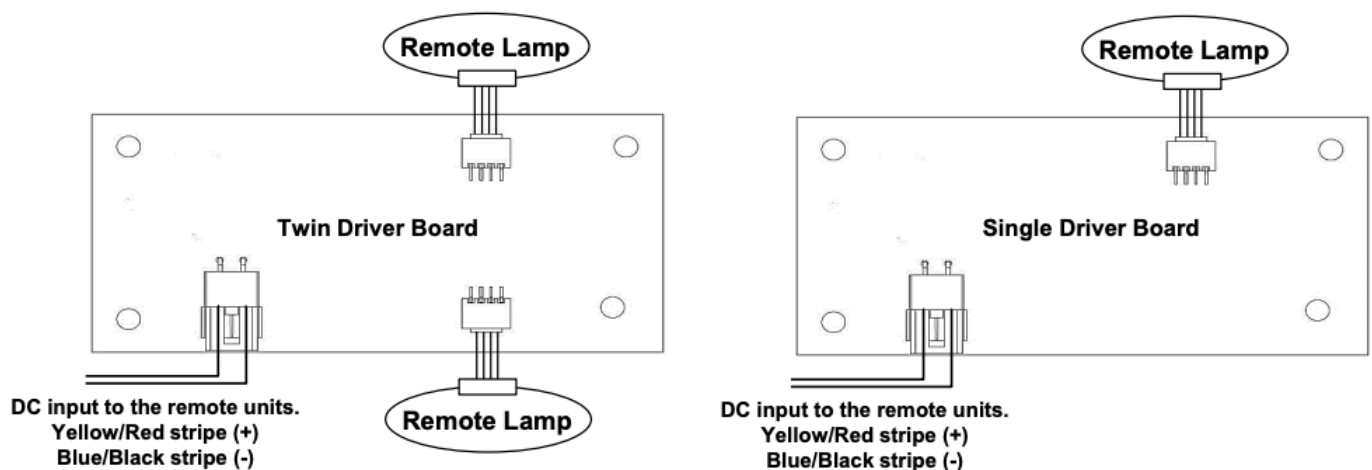
### Warranty and Protection:

- Warranty: 5 years
- Protection: Reverse polarity, Over-heat, Short circuit

## Product Usage Instructions

### Wiring Diagram:

For RGB+CCT:

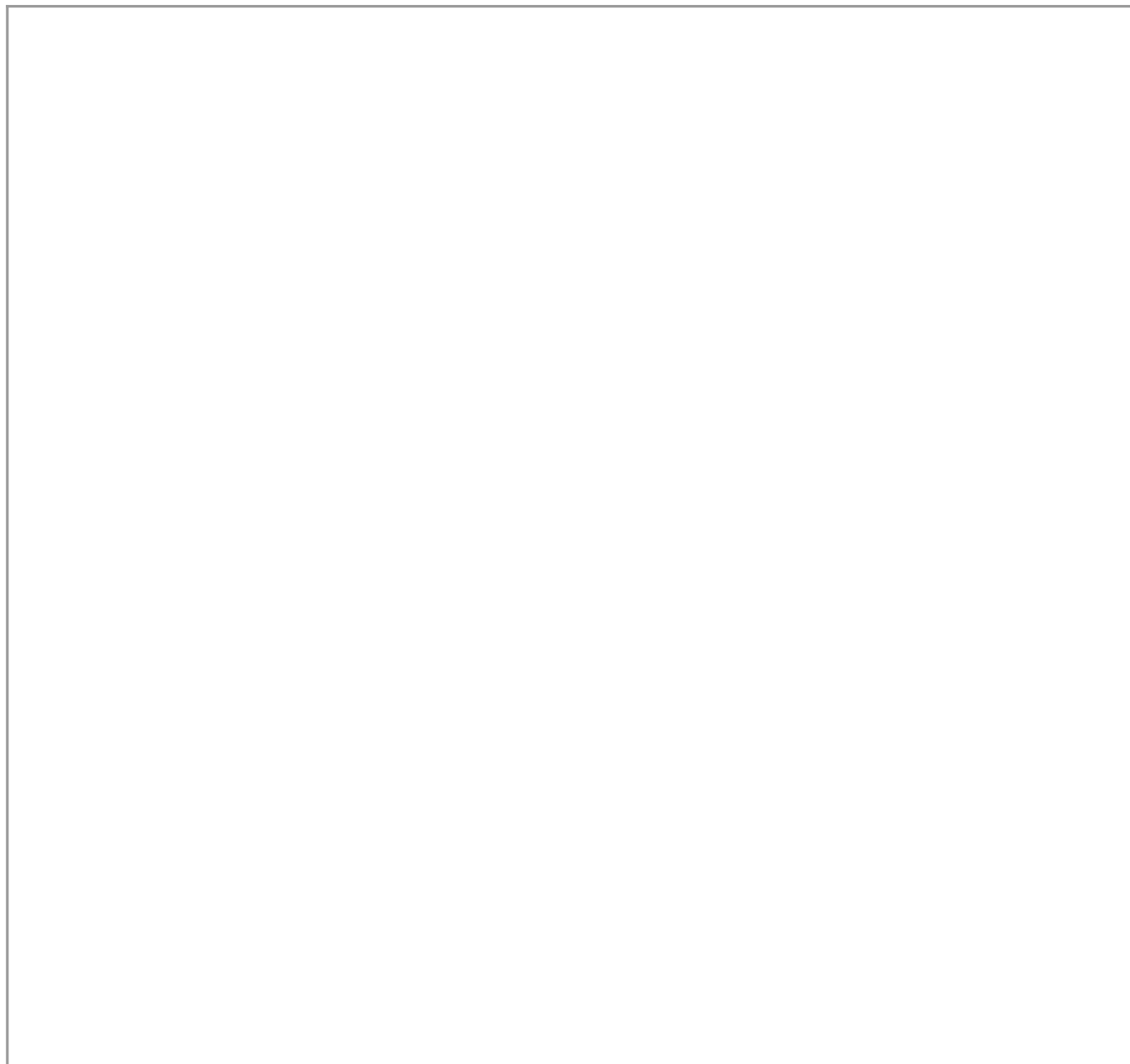


### Steps to Set Light Type:

1. Press and hold the match/set key for 16 seconds until the RUN LED indicator turns blue.
2. Release the match/set key.
3. The controller will become RGB+CCT type.
4. Do smart configuration using the Tuya APP or short press the match key to match with RGB+CCT RF remote.

*Note: Please refer to the actual test distance before installation. Make sure the WiFi router is in the 2.4G band and not hidden. Keep the distance between WT5 devices and the router close and check the WiFi signals.*

[View Fullscreen](#)



WiFi & RF 5 in1 LED Controller Model No.: WT5

Tuya APP cloud control/Voice control/5 Channels/1-5 color/DC power socket input/Wireless remote control

## Features

5 in 1 function, used for control RGB, RGBW, RGB+CCT, color temperature or single color LED strip. DC power socket input and 5 channel constant voltage output. 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 amazon ECHO and TmallGenie smart speaker. Match with RF 2.4G remote control optional. User need set light type by press key before Tuya APP network connection and match RF remote of the same light type. Each WT5 controller can also work as WiFi-RF converter, then use Tuya APP to control one or more RF LED controller or RF LED dimming driver synchronously. Light on/off fade time 3s selectable.

## Technical Parameters

Input and Output Input voltage Input current Output voltage Output current  
Output power Output type

12-24VDC 15.5A 5 x(12-24)VDC 5CH,3A/CH  
5 x (36-72)W Constant voltage

Dimming data Input signal Control distance Dimming gray scale Dimming range Dimming curve PWM frequency

Tuya APP+RF 2.4GHz 30m(Barrier-free space) 4096 ( $2^{12}$ ) levels 0 -100% Logarithmic  
1000Hz (default)

Package Size Gross weight

L120 x W43 x H35mm 0.055kg

Environment Operation temperature Case temperature (Max.)

Ta: -30 OC ~ +55 OC T c:+85 OC

LVD RED

Safety and EMC

EMC standard (EMC)

ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4

Safety standard(LVD) Radio Equipment(RED) Certi cation

EN 62368-1:2020+A11:2020 ETSI EN 300 328 V2.2.2 CE,EMC,LVD,RED

Warranty and Protection

Warranty Protection

5 years

Reverse polarity Over-heat Short circuit

38.00 mm  
INPUT 12-24VDC

Mechanical Structures and Installations  
Power input +  
Power input –

Installation rack DC socket input LED indicator Match/Set key  
Systemwiring

+ R UN M AT CH/SET

–  
+  
WW W W W CW WW / CW WW  
// BGR /WB GR CW WW B G R

Output LED + Output Red LED Output Green LED Installation rack Output Blue LED Output Warm White LED –  
Output Cold White LED –

114.00 mm 20.00 mm

3G/4G/5G WiFi

Tuya Cloud

Wired connection Wireless connection

WiFi

15m

30m

Mobile Phone

WiFi Router

DIM 30m

RFDIM Controller

Amazon ECHO 30m  
RFRremote(Optional)

CCT 30m  
RGB 30m  
RGBW

RFCCT Controller RFRGB Controller RFRGBW Controller

SCENE

POWER

30m

Note:

SCENE SCENE SCENE

MODE BRT/SPEED  
WHITE

PanelIRRemote(Optional)

30m

WT5

RGB+CCT

RFRGB+CCT Controller (Optional)

1.Theabove distance is measured in spacious(noobstacle) environment, Please refer to the actual test distance before installation.

2.PleasecheckiftheWiFi routernetin2.4Gband, the5Gband isnotavailable, and donothisideyourrouternetnetwork.

3. PleasekeepthedistancebetweenWT5 devicesandrouterclose, andchecktheWiFisignals.

User Manual Ver 1.0.5

1

DIM CCT RGB RGBW RGB+CCT

Wiring Diagram

For RGB+CCT

AC100-240V RGB+CCT remote

Power Supply 12-24VDC Constant Voltage

—

+

+ R UN M AT CH/SET

INPUT 12-24VDC

WW W CW WW /  
//B /WB CW WW B

WW CW WW GR GR GR

RGB+CCT LED strip  
WW CW

Press and hold match/set key for 16s, until the RUN LED indicator turn blue, then release, the controller will become RGB+CCT type, then do smart con g by tuya APP, or short press match key to match with RGB+CCT RF remote.

For RGBW

AC100-240V

Power Supply 12-24VDC Constant Voltage

RGBW remote

—  
+

+ R UN M AT CH/SET

INPUT 12-24VDC

WW W CW WW /  
//B /WB CW WW B

WW CW WW GR GR GR

W  
RGBW LED strip

Press and hold match/set key for 14s, until the RUN LED indicator turn green, then release, the controller will become RGBW type, then do smart con g by tuya APP, or short press match key to match with RGBW RF remote.

For RGB

AC100-240V RGB remote

Power Supply 12-24VDC Constant Voltage

—  
+

+ R UN M AT CH/SET

INPUT 12-24VDC

WW W CW WW /  
//B /WB CW WW B

WW CW WW GR GR GR

RGB LED strip

Press and hold match/set key for 12s, until the RUN LED indicator turn red, then release, the controller will become RGB type, then do smart con g by tuya APP, or short press match key to match with RGB RF remote.

For dual color CCT

AC100-240V CCT remote

Power Supply 12-24VDC Constant Voltage

+ R UN M AT CH/SET

INPUT 12-24VDC

—  
+  
WW W W W CW WW / CW WW  
// BGR /WB GR CW WW B G R

++

CW  
WW Dual color LED strip  
CW  
WW Dual color LED strip

Press and hold match/set key for 10s, until the RUN LED indicator turn yellow, then release, the controller will become CCT type, then do smart con g by tuya APP, or short press match key to match with CCT RF remote.

For single color

—  
+  
WW W W W CW WW / CW WW  
// BGR /WB GR CW WW B G R

INPUT 12-24VDC

Dimming remote

Power Adapter 12-24VDC



+ RUN MATCH/SET

Single color LED strip

+

Single color LED strip

+

Press and hold match/set key for 8s, until the RUN LED indicator turn white, then release, the controller will become DIM type, then do smart config by Tuya APP, or short press match key to match with dimming RF remote.

Note: 1. User can connect constant voltage power supply or power adapter as power input. 2. Press and hold Match/Set key for 2s, switch 5 kinds light type in sequence. 3. For RGB+CCT or CCT light type, continuous power on and off will change 3 levels color temperature (WW, NW and CW) in sequence. 4. Switch off the power, then switch on power, repeat again.

Immediately short press match key 3 times, the light on/off time will change between 3s and 0.5s.

User Manual Ver 1.0.5

2

Tuya APP network connection

Push twice Match/Set key fastly, or when press and hold Match/Set key for 8-16s to set 5 kinds light type: Clear previous network connection, enter Smart config mode, the purple LED indicator flash fastly, the output LED will flash 10 times.

Press and hold Match/Set key for 2s: Switch 5 kinds light type in sequence, notice this operation does not automatically clear previous network connection.

Press and hold Match/Set key for 5s: Clear previous network connection, enter AP config mode, the purple LED indicator 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 RUN LED indicator will stop flash purple, and turn corresponding light type color (White: DIM, Yellow: CCT, Red: RGB, Green: RGBW, Blue: RGB+CCT). and in Tuya APP, you can find RGB+CCT device (or other DIM, CCT, RGB or RGBW).

Tuya APP interface

DIM

White interface

For DIM type: Touch brightness slide to adjust brightness.

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

For RGBW type: Touch brightness slide, adjust white channel brightness.

RGB+CCT

Color temperature interface

For CCT type: Touch color wheel to adjust color temperature. Touch brightness slide to adjust brightness.

For RGB+CCT type: Touch color wheel to adjust color temperature, RGB will turn off automatically. Touch brightness slide to adjust white brightness.

RGB+CCT

Colour interface

For RGB or RGBW type: Touch color wheel to adjust static RGB color. Touch brightness slide to adjust color brightness. Touch saturation slide to adjust color saturation, namely gradient from the current color to white (RGB mixed).

For RGB+CCT type: 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).

## RGB+CCT

Scene interface The 1-4 scene is static color for all light type. the inner color of these scene can be editable. The 5-8 scene is dynamic mode for RGB, RGBW, RGB+CCT type, such as green fade in and fade out, RGB jump, 6 color jump, 6 color smooth.

## RGB+CCT

Music, Timer, Schedule The music play can use smart phone music player or micro-phone as music signal input. The Timer key can turn on or turn off light in the next 24 hours. The Schedule key can add multiple timers to turn on or turn off light according to different time periods.

## User Manual Ver 1.0.5

## 3

### WT5 match remote control (Optional)

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

Use the WT5's Match key

Use Power Restart

Match: Short press match key of WT5, immediately press on/off key (single zone remote) or zone key (multiple zone remote) on the remote. The LED indicator fast flash a few times means match is successful.

Match: Switch off the power of WT5, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

Delete: Press and hold match key of WT5 for 20s, The LED indicator fast flash a few times means all matched remotes were deleted.

. Delete: Switch off the power of WT5, then switch on power, repeat again. Immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 5 times on the remote. The light blinks 5 times means all matched remotes were deleted.

WT5 work as WiFi-RF converter to match RF LED controller or dimming driver

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

Use the controller's Match key

Match: Short press match key of the controller, immediately press on/off key on the Tuya APP. The LED indicator fast flash a few times means match is successful.

Use Power Restart

Match: Switch off the power of the controller, then switch on power, repeat again. Immediately short press on/off

key 3 times on the Tuya APP. The light blinks 3 times means match is successful.

Delete: Press and hold match key of the controller for 5s, The LED indicator fast flash a few times means match was deleted.

.Delete: Switch off the power of the controller, then switch on power, repeat again. Immediately short press on/off key 5 times on the Tuya APP. The light blinks 5 times means match was deleted.

Dynamic mode list

For RGB/RGBW:

No.

Name

1

RGB jump

2

RGB smooth

3

6 color jump

4

6 color smooth

5

Yellow cyan purple smooth

For RGB+CCT:

No.

Name

1

RGB jump

2

RGB smooth

3

6 color jump

4

6 color smooth

5

Color temperature smooth

No.

Name

6

RGB fade in and out

7

Red fade in and out

8

Green fade in and out

9

Blue fade in and out

10

White fade in and out

No.

Name

6

RGB fade in and out

7

Red fade in and out

8

Green fade in and out

9

Blue fade in and out

10

White fade in and out

User Manual Ver 1.0.5

4

**Documents / Resources**

	<p><a href="#">tuya WT5 WiFi and RF 5 in1 LED Controller</a> [pdf] Instruction Manual WT5, WT5 WiFi and RF 5 in1 LED Controller, WiFi and RF 5 in1 LED Controller, RF 5 in1 LED Controller, LED Controller, Controller</p>
--	--