Tuva APP cloud control/Voice control/5 Channels/1-5 color/DC12-48V/Four PWM frequency/Push Dim



Features

- 5 in 1 function, used for control RGB, RGBW, RGB+CCT, color temperature or single color LED strip.
- DC 12-48V input, 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.
- Fach L-5VIWT) controller can also work as WIFI-RF converter, then use Tuya APP to control one or more RF IED. controller

or RF LED dimming driver synchronously.

- PWM frequency 500Hz, 2000Hz, 8000Hz or 16000Hz selectable.
- Light on/off fade time 3s selectable.
- Connect with external push switch to achieve on/off and 0-100% dimming function.

Technical Parameters Input and Output

Input voltage

Output voltage

PWM Frequency

Input current

Output current	6A/CH @ 12/24V 4A/CH @ 36/48V	
Output type	Constant voltage	
Dimming data		
Input signal	Tuya APP + RF 2.4GHz + Push-DIM	
Control distance	30m(Barrier-free space)	
Dimming gray scale	4096 (2^12) levels	
Dimming range	0-100%	
Dimming curve	Logarithmic	

2000Hz (default)

12-48VDC

5 x (12-48)VDC

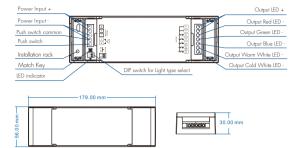
30.5A

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)	ETSI EN 300 328 V2.2.2
Certification	CE,EMC,IVD,RED

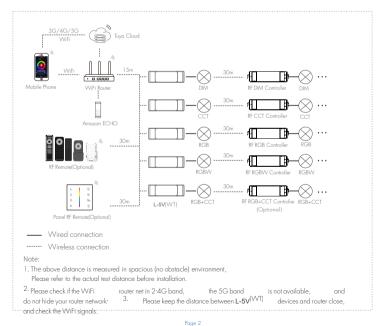
FC C CE RoHS emc LVD RED

Environment			
Operation temperature	Ta:-30°C ~+55°C		
Case temperature (Max.)	Tc:+85°C		
IP rating	IP20		
Warranty and Protection			
Warranty	5 years		
Protection	Reverse polarity Over-heat Short circuit		

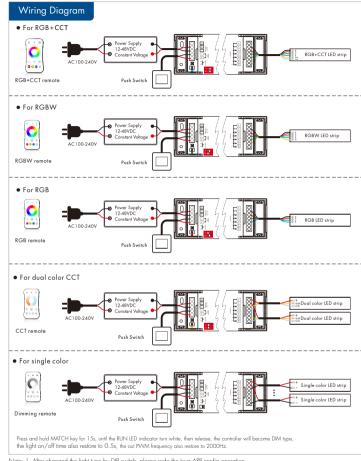
Mechanical Structures and Installations



System wiring



L-5V(WT) WiFi & RF 5 in 1 LED Controller



Note: 1. After changed the light type by DIP switch, please redo the tuya APP config operation.

- 2. For RGB+CCT or CCT light type, continuous power on and off will change 3 levels color temperature (WW, NW and CW) in sequence. 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.

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Tuva APP network connection

Press and hold Match key for 2s, or push twice Match key fastly:

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 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 LFD 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).

Tuva APP interface



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.



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.

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 IRGB mixed).

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.

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.

L-5V(WT) match remote control (Optional)

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

Use the L-5V(WT)'s Match key

Match:

Short press match key of L-5V(WT), immediately press on/off key (single zone remote) or zone key (multiple zone remote) on the remote. The IFD indicator fast flash a few times means match is successful.

Press and hold match key of L-5V(WT) for 10s. The LED indicator fast flash a few times means all matched remotes were deleted

Use Power Restart

Match.

Switch off the power of L-5V(WT), 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.

Switch off the power of L-5V(WT), 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.

L-5V(WT) work as WiFi-RF converter to match RF LED controller or dimmina driver

End user can choose the suitable match/delete ways. Two options are offered for selection: Use the controller's Match key Use Power Restart

Match:

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

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

Switch off the power of the controller, then switch on power.

Immediately short press on/off key 3 times on the Tuya APP. The light blinks 3 times means match is successful.

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.

PWM frequency setting









500Hz 2000Hz 8000Hz 16000Hz

When power is off, select the DIP switch firstly, then press hold the MATCH key. and power up the controller in the same time, the RUN IED indicator will flash. white color two times means PWM frequency setting is successful. We can select four PWM frequency: 500Hz, 2000Hz, 8000Hz or 16000Hz. Higher PWM frequency, will cause lower output current, higher power noise. but more suitable for cameralNo flickers for videol.

L-5V(WT) WiFi & RF 5 in 1 LED Controller

Push Dim

	Click	ON/OFF		
Single color	Double Click	Turn on at 100% or 10%(night light) and vice-versa		
	Long press(>1s) from OFF	Dimming UP/DOWN		
	Long press(>1s) from ON	Dimming UP/DOWN		
	Click	ON/OFF		
Dual Color	Double Click	Turn on at 100% or 10%(night light) and vice-versa		
Dodi Coloi	Long press(>1s) from OFF	Color temperature UP/DOWN (turn off and turn on to return dimming)		
	Long press(>1s) from ON	Dimming UP/DOWN		
	Click	ON/OFF		
	Double Click	Change from color mode to white mode (RGB mixed) and vice-versa		
RGB	Long press(>1s) from OFF	If on color mode change rotation speed; If on white mode dimming UP/DOWN		
	Long press(>1s) from ON	If on color mode start/stop color rotation; If on white mode dimming UP/DOWN		
	Click	ON/OFF		
	Double Click	Change between color mode, white mode (W channel) and color+W mode		
RGBW	Long press(>1s) from OFF	If on color mode change rotation speed; If on white mode or color+W mode, W dimming UP/DOWN		
	Long press(>1s) from ON	If on color mode start/stop color rotation; If on white mode or color+W mode, W dimming UP/DOWN		
	Click	ON/OFF		
RGB+CCT	Double Click	Change from color mode to tunable white mode and vice-versa		
	Long press(>1s) from OFF	If on color mode change rotation speed; If on tunable white mode color temperature UP/DOWN (turn off and turn on to return dimming)		
	Long press(>1s) from ON	If on color mode start/stop color rotation; If on tunable white mode dimming UP/DOWN		

Color rotation



We can select 4 rotation speed: 10 flash/s means 6 seconds color rotation

5 flash/s means 30 seconds color rotation

2 flash/s means 1 minute color rotation

1 flash/s means 6 minutes color rotation

Dynamic mode list

For RGB/RGBW

	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

For RGB+CCT:

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

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