



# LEDLyskilder V5-L WiFi and RF 5 in1 LED Controller Instruction Manual

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WiFi & RF 5 in1 LED Controller

Model No.: V5-L(WT)

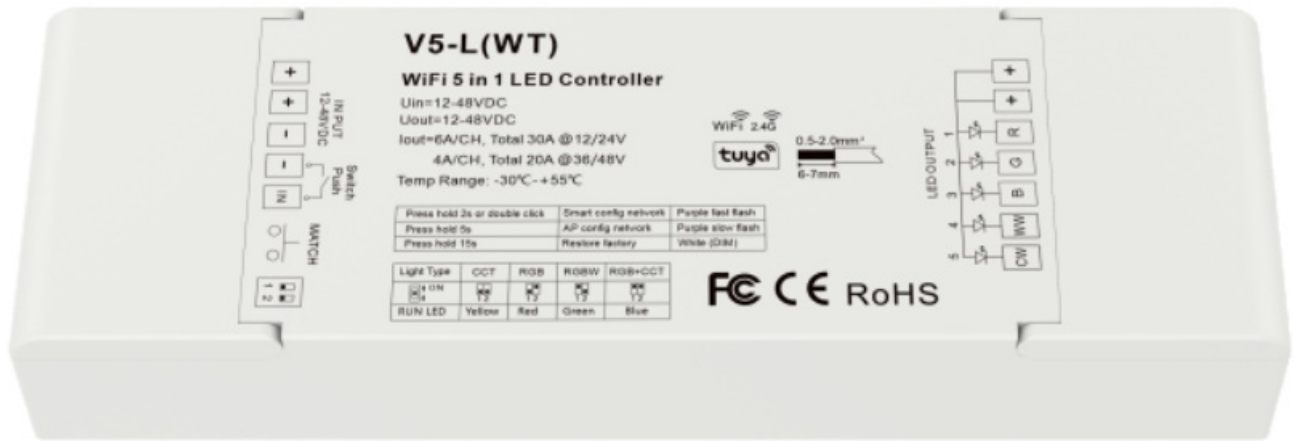
Tuya APP cloud control/

Voice control/

5 Channels/1-5 color/DC12-48V/Four PWM frequency/Push Dim

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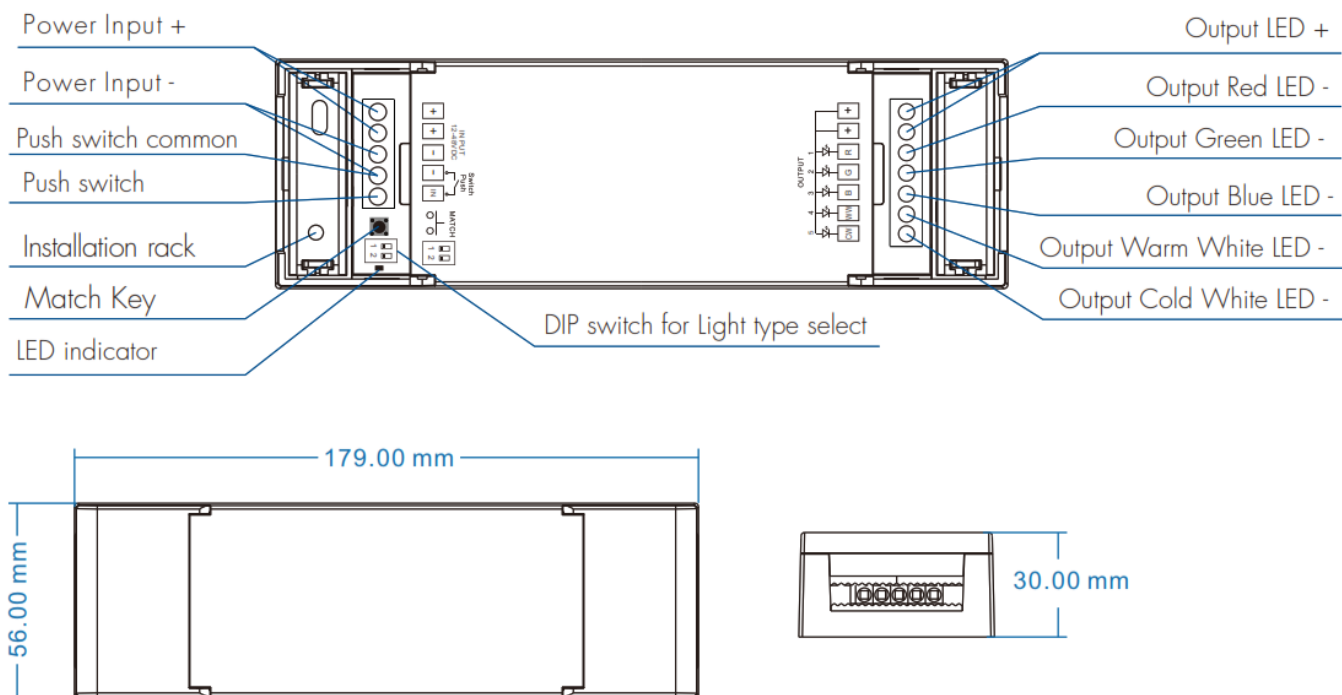


FC CE RoHS emc LVD RED

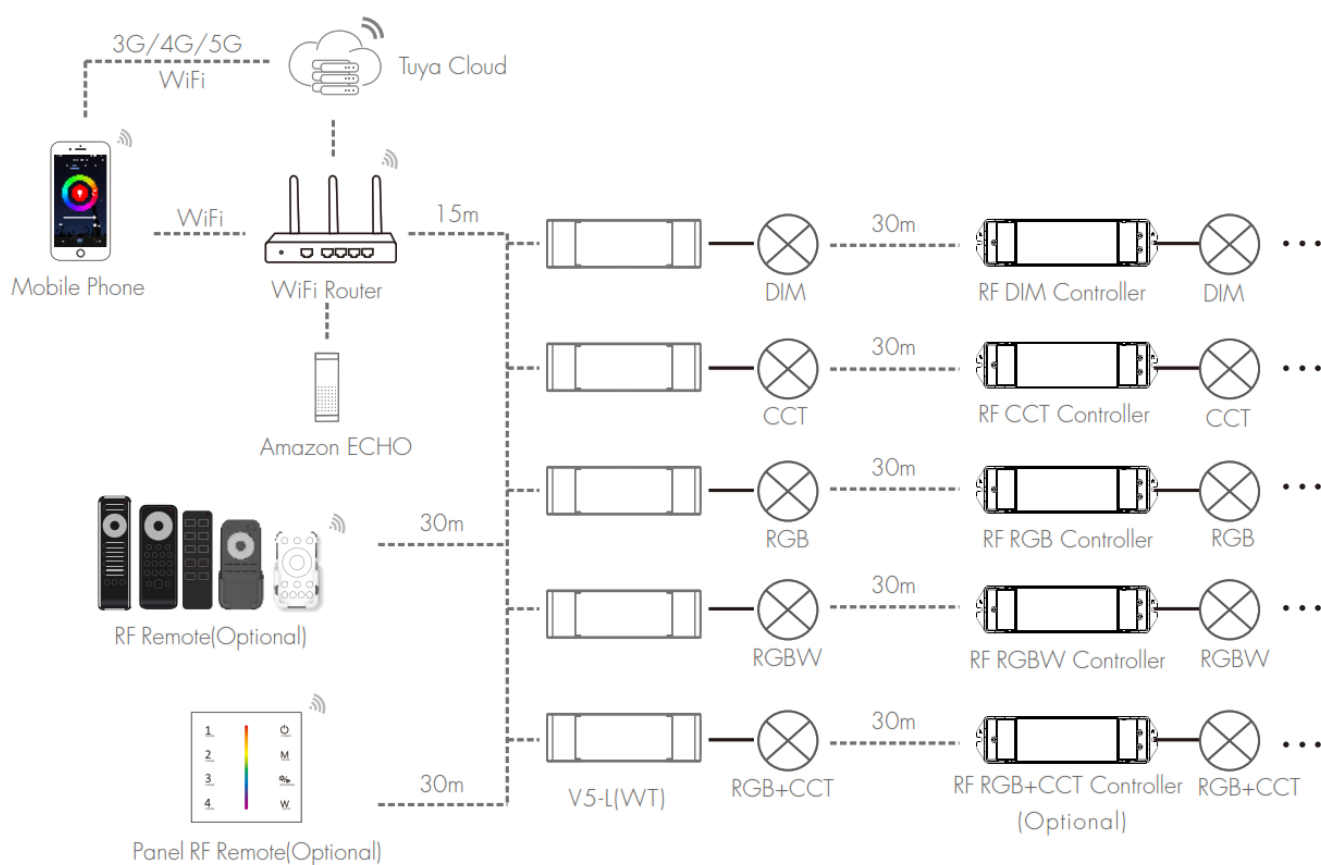
## Features

- 5 in 1 function, used to control RGB, RGBW, RGB+CCT, color temperature or single color LED strip.
- DC12-48V 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.
- Users need to set the light to type by pressing the key before the Tuya APP network connection and matching RF remote of the same light type.
- Each V5-L(WT) controller can also work as a WiFi-RF converter, then use Tuya APP to control one or more RF LED controllers or RF LED dimming drivers 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.

## Mechanical Structures and Installations



## System wiring



—Wired connection  
 —Wireless connection

### Note:

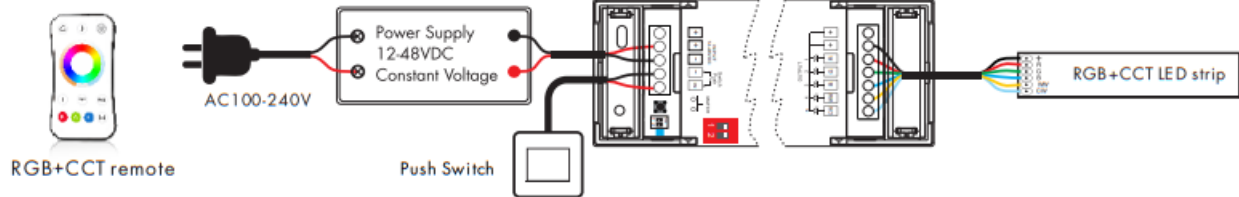
1. The above distance is measured in a spacious(no obstacle) environment, Please refer to the actual test distance before installation.
2. Please check if the WiFi router net is in the 2.4G band, the 5G band is not available, and do not hide your

router network.

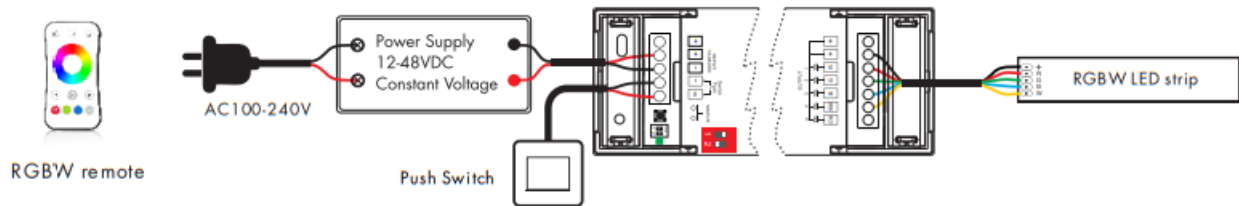
3. Please keep the distance between V5-L(WT) devices and router close, and check the WiFi signals.

## Wiring Diagram

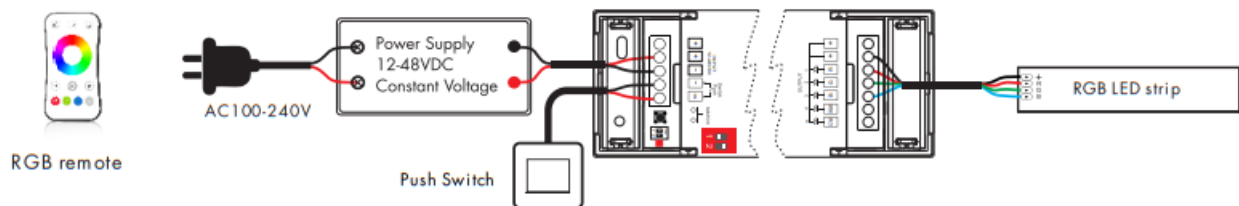
### ● For RGB+CCT



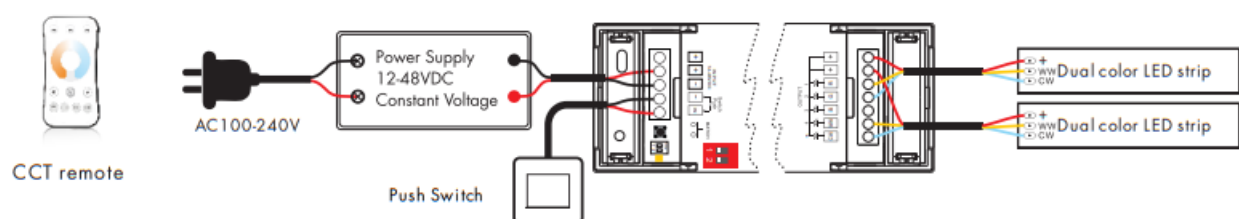
### ● For RGBW



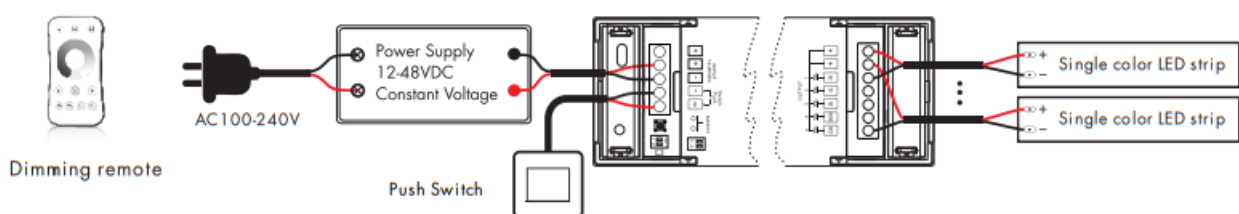
### ● For RGB



### ● For dual color CCT



### ● For single color



Press and hold the MATCH key for 15s, until the RUN LED indicator turns white, then release, the controller will become DIM type, the light on/off time also restored to 0.5s, and the out PWM frequency also restore to 2000Hz.

## Note

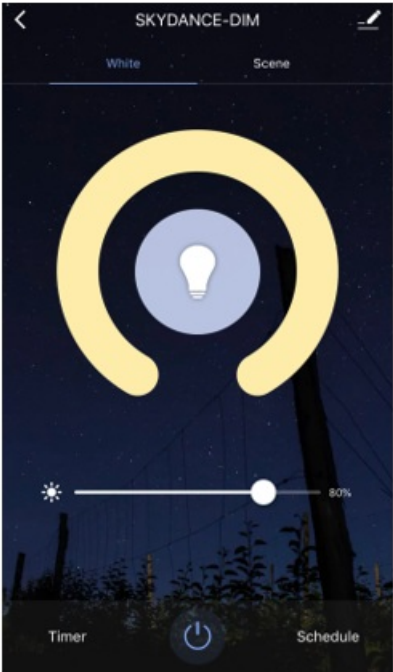

1. After changing the light type by DIP switch, please redo the tuya APP config operation.
2. For RGB+CCT or CCT light type, continuous power on and off will change 3 levels of color temperature (WW, NW, and CW) in sequence.

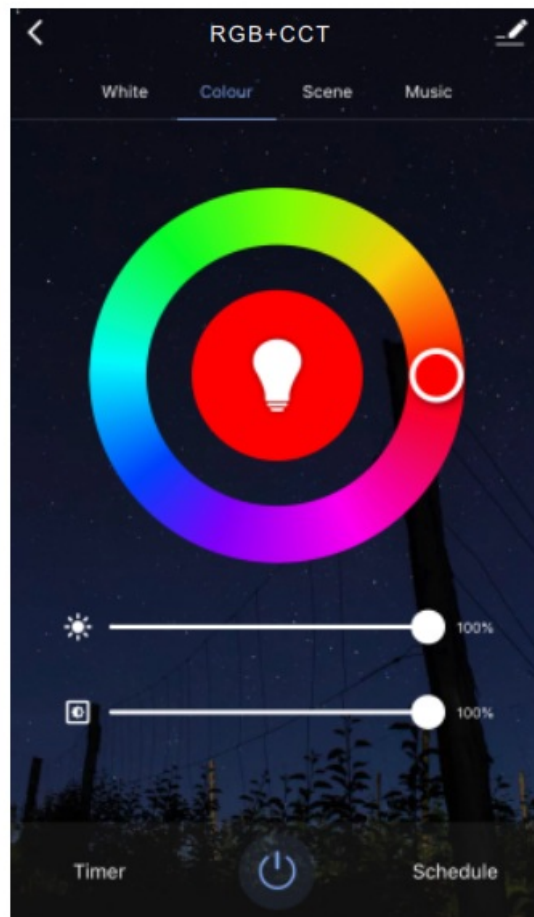
- Switch off the power, then switch on the power, and repeat again. Immediately short press match key 3 times, the light on/off time will change between 3s and 0.5s.

### Tuya APP network connection

Press and hold the Match key for 2s, or push twice the Match key fastly: Clear the previous network connection, enter Smart config mode, the purple LED indicator flash fastly, the output LED will flash 10 times. Press and hold the Match key for 5s: Clear the previous network connection, enter AP config mode, and the purple LED indicator flashes slowly.

If the 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, and the output LED will flash 10 times. If the Tuya APP network connection succeeds, the RUN LED indicator will stop flash purple, and turn to correspond light type color (White: DIM, Yellow: CCT, Red: RGB, Green: RGBW, Blue: RGB+CCT). and in Tuya APP, you can find RGB+CCT devices (or other DIM, CCT, RGB or RGBW).

	
<p><b>White interface</b></p> <p>For DIM type: Touch brightness slide to adjust brightness.</p> <p>For RGB type: Touch the brightness slide, get RGB mixed white firstly, then to adjust the white brightness.</p> <p>For RGBW type: Touch the brightness slide, and adjust the white channel brightness</p> <p>.</p>	<p><b>Color temperature interface</b></p> <p>For CCT type: Touch the color temperature slider to adjust color temperature.</p> <p>Touch brightness slide to adjust brightness.</p> <p>For RGB+CCT type: Touch the color temperature slider, RGB will turn off automatically.</p>



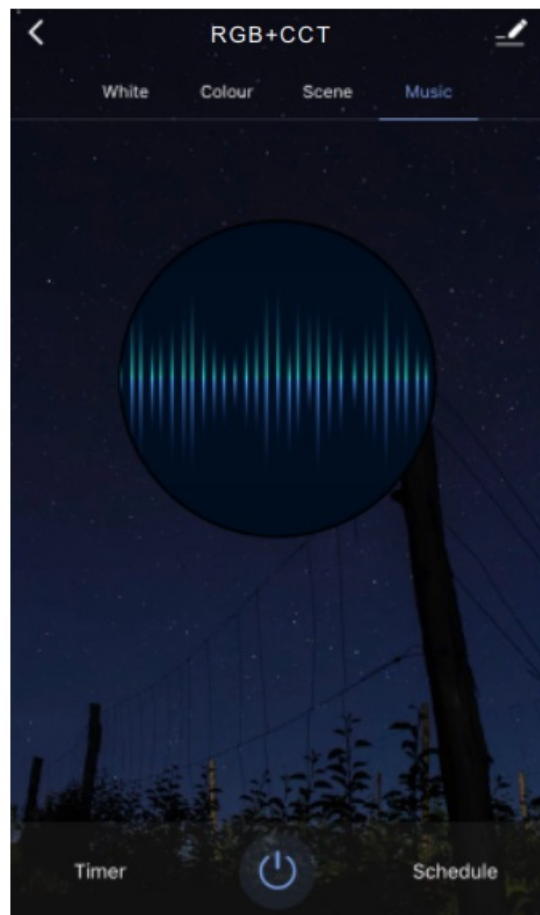
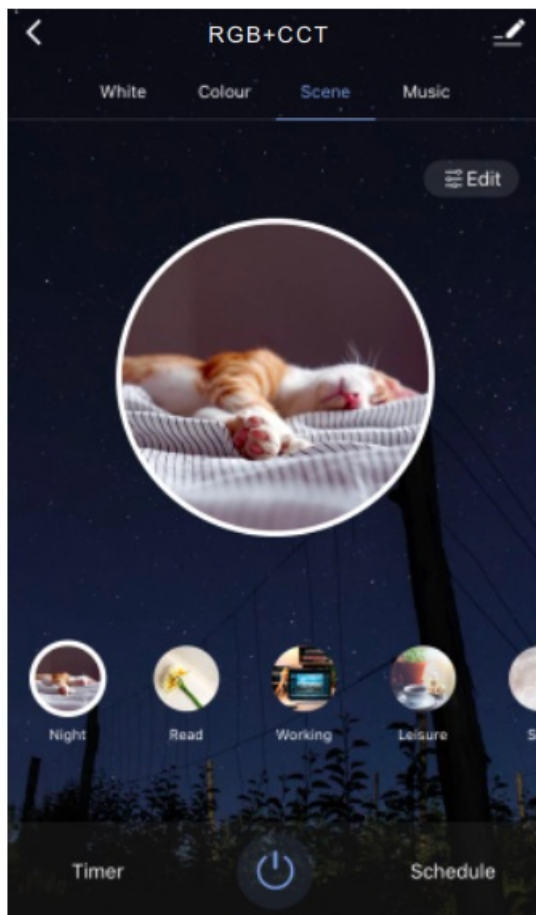
### **Colour interface**

#### **For RGB or RGBW type:**

Touch the color wheel to adjust the 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 the 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).



## Scene interface

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

## Music, Timer, Schedule

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

## V5-L(WT) match remote control (Optional)

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

### Use the V5-L(WT)'s Match key

Match:

Short press the match key of V5-L(WT), and immediately press on/off key (single zone remote) or zone key (multiple zones remote) on the remote. The LED indicator fast flash a few times means the match is successful.

Delete:

Press and hold the match key of V5-L(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  
An immediately short (te) 3 times on the remote

Delete:

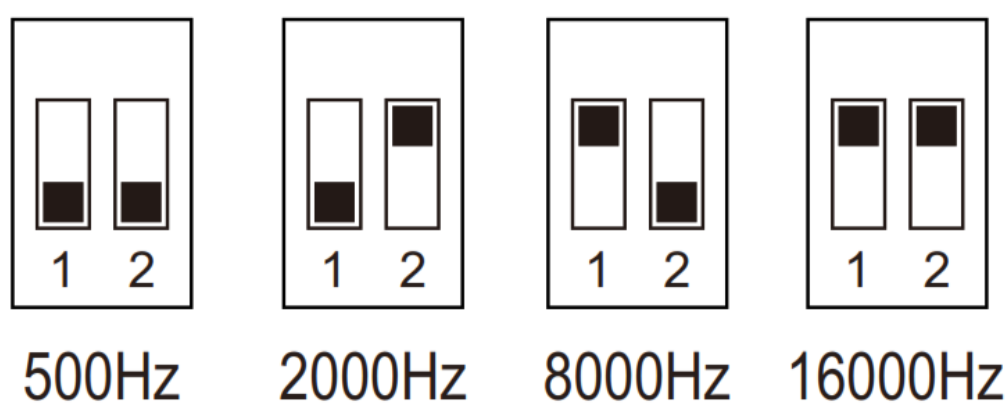
Switch off the power  
An immediately short (te) 5 times on the remote

**V5-L(WT) works as a WiFi-RF converter to match RF LED controller or dimming driver**

The end users can choose the suitable match/delete ways. Two options are offered for selection:

<p><b>Use the V5-L(WT)'s Match key</b></p> <p>Match: Short press the match key of V5-L(WT), and immediately press on/off key (single zone remote) or zone key (multiple zones remote) on the remote. The LED indicator fast flash a few times means the match is successful.</p> <p>Delete: Press and hold the match key of V5-L(WT) for 10s, The LED indicator fast flash a few times means all matched remotes were deleted.</p>	<p><b>Use Power Restart</b></p> <p>Match: Switch off the power An immediately short te) 3 times on the re</p> <p>Delete: Switch off the power An immediately short te) 5 times on the re</p>
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**PWM frequency setting**



When power is off, select the DIP switch firstly, then press holds the MATCH key, and power up the controller at the same time, the RUN LED indicator will flash white color two times means the PWM frequency setting is successful. We can select four PWM frequencies: 500Hz, 2000Hz, 8000Hz, or 16000Hz. Higher PWM frequency will cause lower output current, and higher power noise, but more suitable for the camera(No flickers for video).

**Push Dim**



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

10 flash/s means 6 seconds of color rotation

5 flash/s means 30 seconds of color rotation

2 flash/s means 1-minute color rotation

1 flash/s means 6 minutes of color rotation

## Dynamic mode list


For RGB/RGBW:

No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red face in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue face 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 face in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue face in and out
5	Yellow cyan purple smooth	10	White fade in and out

## Documents / Resources

	<a href="#">LEDLyskilder V5-L WiFi and RF 5 in1 LED Controller</a> [pdf] Instruction Manual V5-L WiFi and RF 5 in1 LED Controller, V5-L, WiFi and RF 5 in1 LED Controller
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