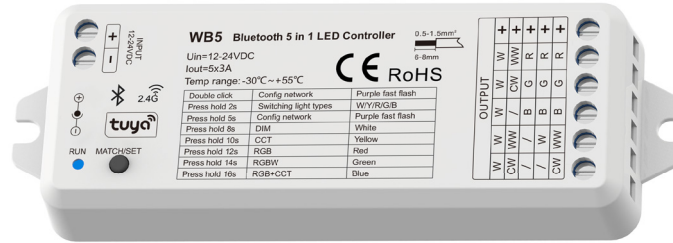


LCBT-WB5

12-24VDC Constant Voltage Bluetooth Controller



Features

- Compatible with single colour, RGB, RGBW, Dual Colour & RGB+CCT LED strips.
- DC power socket input and 5 channel Constant Voltage output.
- Cloud control via the Tuya APP with basic functions including on/off control, RGB colour wheel and colour temperature adjustment. Additional functions can also be set which include delayed on/off mode, timer run, scene edit, music play and brightness control.
- Voice control support with amazon ECHO and TmallGenie smart speaker.
- Matches with our RF 2.4G remote controls.
- Each WB5 controller will also work as a Bluetooth-RF converter by using the Tuya APP to control one or more RF controllers or RF dimming drivers synchronously.
- 3 second fade time can be set for on/off control.

Electrical Information

Input and output	
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	
Input signal	Tuya APP + RF 2.4GHz
Control distance	30m (unobstructed)
Dimming gray scale	4096 (2 ¹²) levels
Dimming range	0-100%
Dimming curve	Logarithmic
PWM frequency	1000Hz (default)

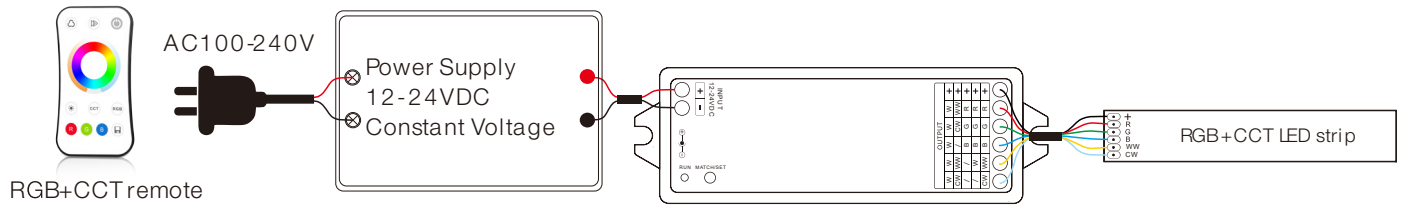
Safety and EMC	
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard (LVD)	EN 62368-1:2020+A11:2020
Radio equipment (RED)	ETSI EN 300 328 V2.2.2
Certification	CE,EMC,LVD,RED

Environment	
Operation	Ta: -30°C ~ +55°C
Case temperature	Tc: +85°C
IP rating	IP20

Warranty and Protection	
Warranty	5 years
Protection	Reverse polarity Over-heat

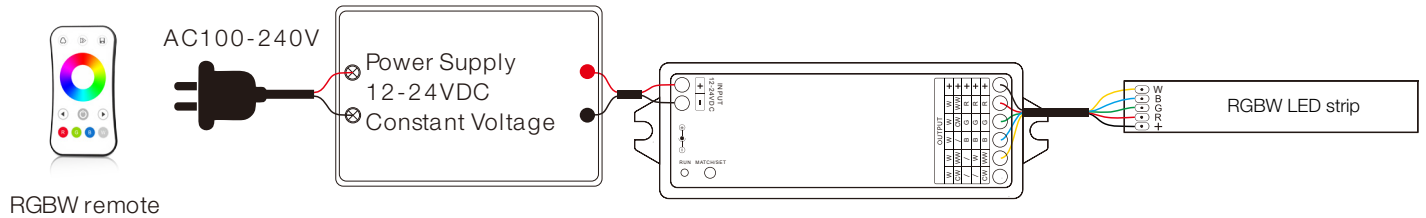
Wiring Diagrams

RGB+CCT



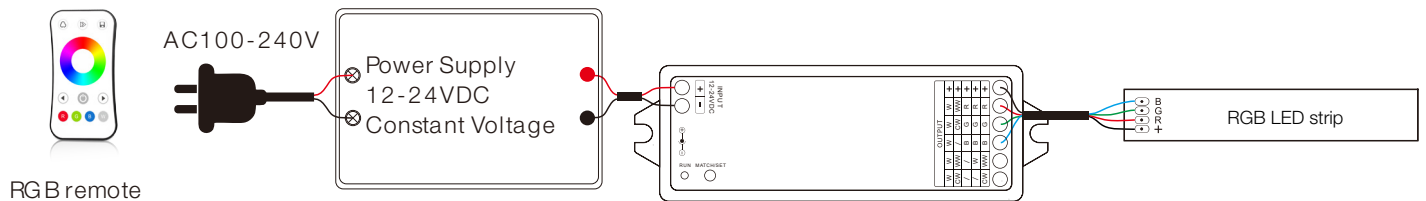
Press and hold match/set key for 16 secs, until the RUN LED indicator turns blue, then release, the controller will become RGB+CCT type, then do smart config by tuya APP, or short press match key to match with RGB+CCT RF remote.

RGBW



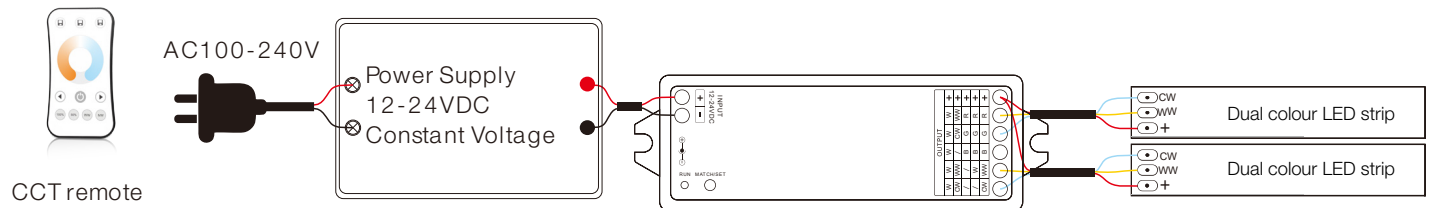
Press and hold match/set key for 14 secs, until the RUN LED indicator turns green, then release, the controller will become RGBW type, then do smart config by tuya APP, or short press match key to match with RGBW RF remote.

RGB



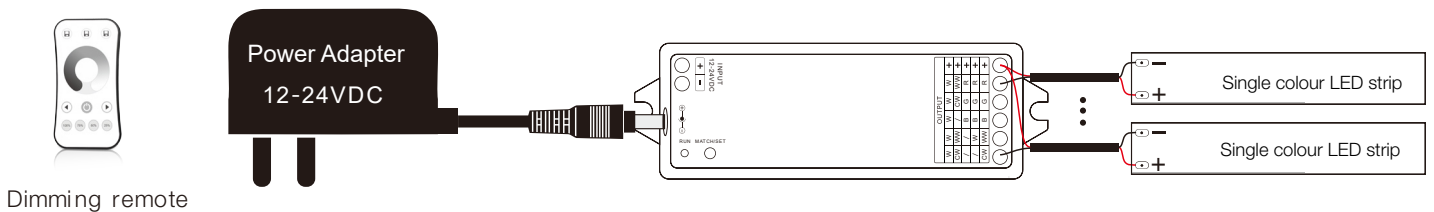
Press and hold match/set key for 12 secs, until the RUN LED indicator turns red, then release, the controller will become RGB type, then do smart config by tuya APP, or short press match key to match with RGB RF remote.

Dual Colour CCT



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

Single Colour



Press and hold match/set key for 8 secs, until the RUN LED indicator turns 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 2 secs, 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 3 secs and 0.5 secs.

Tuya App Connection

Press and hold the Match/Set key for 2 seconds:

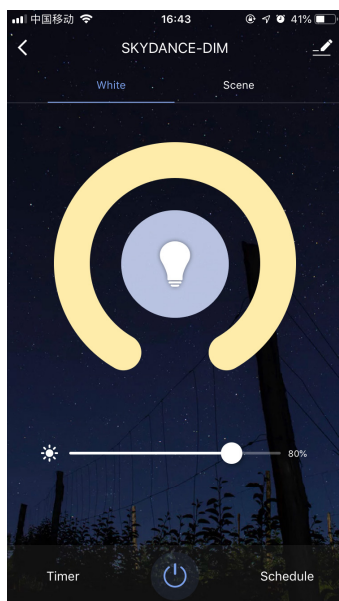
Switch through 5 kinds of light types in sequence, you will notice this operation does not automatically clear previous network connections.

Press and hold the Match/Set key for 5 seconds, or push the Match/Set key twice, or when you press and hold Match/Set key for 8-16 seconds to set 5 kinds light type:

Clear previous network connection, enter config mode, the purple LED indicator will fast flash, the output LED will flash 10 times.

Repeat power on and off 5 consecutive times, also clear previous network connection, enter config mode, the output LED will flash 10 times.

If Tuya APP network connection is successful, the RUN LED indicator will stop flashing purple, and turn to the corresponding light type colour (White: DIM, Yellow: CCT, Red: RGB, Green: RGBW, Blue: RGB+CCT) and in Tuya APP, you can find BT-RGB+CCT device (or other DIM, CCT, RGB or RGBW).



White interface

For Single Colour LED:

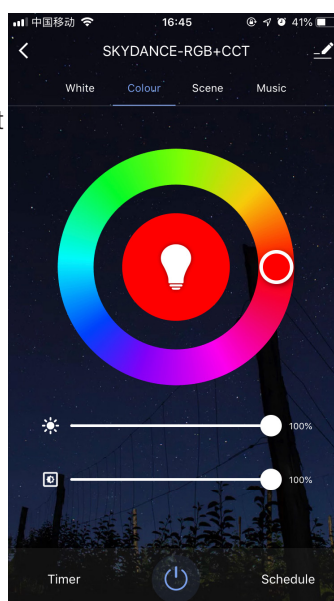
Touch the brightness slide to adjust brightness.

For RGB LED:

Touch the brightness slide, get RGB mixed white first, then adjust the white brightness.

For RGBW LED:

Touch the brightness slide, adjust the white channel brightness.



Colour interface

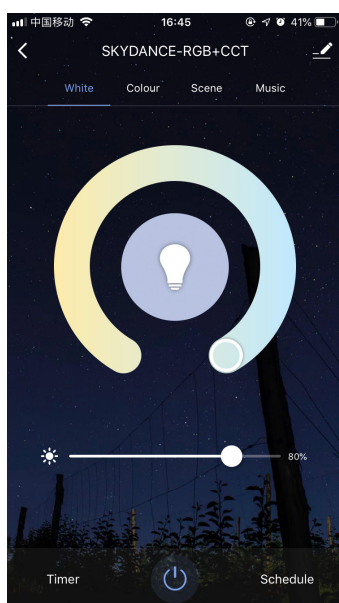
For RGB or RGBW LED:

Touch the colour wheel to adjust static RGB colour. Touch brightness slide to adjust colour brightness. Touch saturation slide to adjust colour saturation, namely gradient from the current color to white (RGB mixed).

For RGB+CCT LED:

Touch the colour wheel to adjust static RGB colour, WW/CW will turn off automatically.

Touch the brightness slide to adjust colour brightness. Touch the saturation slide to adjust colour saturation, namely gradient from the current colour to white (RGB mixed).



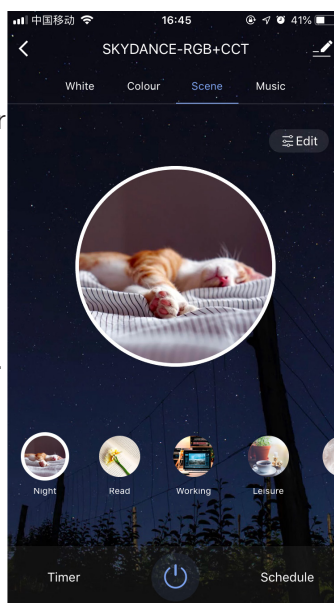
Colour temperature interface

For CCT (Dual White) LED:

Touch colour wheel to adjust colour temperature. Touch the brightness slide to adjust brightness.

For RGB+CCT type:

Touch colour wheel to adjust colour temperature, RGB will turn off automatically. Touch the brightness slide to adjust the white brightness.

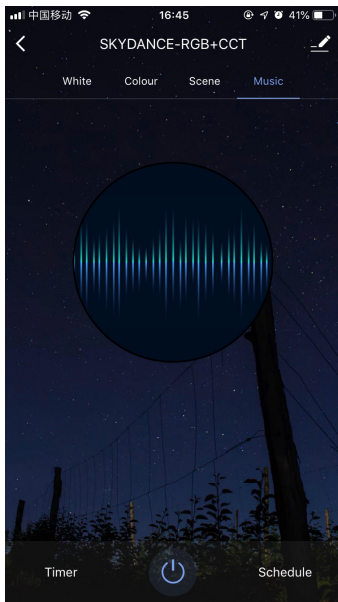


Scene interface

The 1-4 scene is static colour for all light type.

the inner colour 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 colour jump, 6 colour 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.

RGB Dynamic Mode List

#	Name	#	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 colour jump	8	Green fade in and out
4	6 colour smooth	9	Blue fade in and out
5	Yellow cyan purple smooth	10	White fade in and out

#	Name	#	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 colour jump	8	Green fade in and out
4	6 colour smooth	9	Blue fade in and out
5	Colour temperature smooth	10	White fade in and out

Matching WB5 to a Remote

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

Using the controller's Match Key

Match:

Short press the match key on the WB5, immediately press the on/off key (single zone remote) or zone key (multiple zone remote) on the remote. The LED indicator will fast flash a few times which means the match was successful.

Delete:

Press and hold the match key on the WB5 for 20 seconds, The LED indicator will fast flash a few times which means all matched remotes were deleted.

Using Power Restart

Match:

Switch off the power of WB5, 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:

Switch off the power of WB5, 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.

WB5 working as Bluetooth-RF converter to match with RF controller or dimming driver

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

Using 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.

Delete:

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

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:

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.