Single Color LED Controller

Model No.: V1



1 Channel/Step-less dimming/Wireless remote control/Auto-transmitting/Synchronize/Push Dim



FC C CE RoHS emc RED

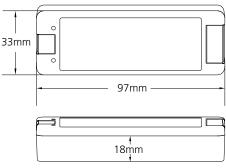
Features

- 4096 levels 0-100% dimming smoothly without any flash.
- Match with Skydance's 2.4G single zone or multiple zone dimming remote control.
- One RF controller accept up to 10 remote control.
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance.
- Synchronize on multiple number of controllers.
- Connect with external push switch to achieve on/off and 0-100% dimming function.

Technical Parameters

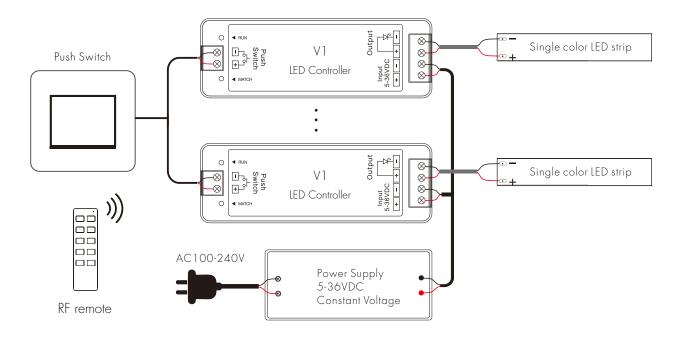
Input and Output		Safety and EMC	
Input voltage	5-36VDC	EMC standard (EMC)	EN301 489,EN 62479
Input current	8.5A	Safety standard(LVD)	EN60950
Output voltage	5-36VDC	Radio Equipment(RED)	EN300 328
Output current	1CH,8A	Certification	CE,EMC,LVD,RED
Output power	40W/96W/192W/288W (5V/12V/24V/36V)		
Output type	Constant voltage	Environment	
		Operation temperature	Ta: -30 ℃ ~ +55 ℃
Dimming data		Operation temperature Case temperature (Max.)	Ta: -30 ℃ ~ +55 ℃ Tc: +85 ℃
Dimming data Input signal	RF 2.4GHz + Push Dim		
Ũ	RF 2.4GHz + Push Dim 30m	Case temperature (Max.)	Tc:+85℃
Input signal		Case temperature (Max.)	Tc:+85℃
Input signal Control distance	30m	Case temperature (Max.)	Tc: +85 ℃ IP20
Input signal Control distance Dimming level	30m 4096 levels	Case temperature (Max.) IP rating	Tc: +85 ℃ IP20

LED indicator Push switch com Push switch in Installation rack Match key



Mechanical Structures and Installations

Wiring Diagram



Match Remote Control (two match ways)

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, immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote.

Delete:

Press and hold match key for 5s to delete all match, The light blinks 5 times means all matched remotes were deleted.

Use Power Restart

Match:

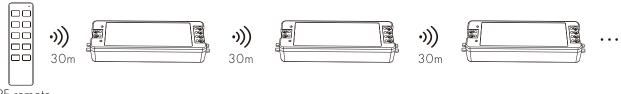
Switch off the power, then switch on power again, immediately short press on/off key (single zone remote) or zone key (multiple zone remote) 3 times on the remote. The light blinks 3 times means match is successful.

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 light blinks 5 times means all matched remotes were deleted.

Application notes

1. All the receivers in the same zone.



RF remote

Auto-transmitting: One receiver can transmit the signals from the remote to another receiver within 30m,

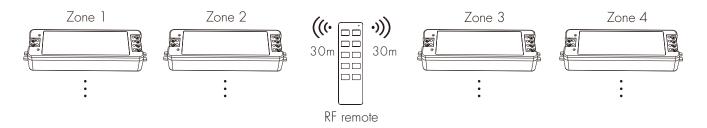
as long as there is a receiver within 30m, the remote control distance can be limitless.

Auto-synchronization: Multiple receivers within 30m distance can work synchronously when they are controlled by the same remote.

Receiver placement may offer up to 30m communication distance. Metals and other metal materials will reduce the range. Strong signal sources such as WiFi routers and microwave ovens will affect the range.

We recommend for indoor applications that receiver placements should be no further apart than 15m.

2. Each receiver(one or more) in a different zone, like zone 1, 2, 3 or 4.



Push Dim Function

The provided Push-Dim interface allows for a simple dimming method using commercially available non-latching (momentary) wall switchs.

• Short press:

Turn on or off light.

• Long press (1-6s):

Press and hold to step-less dimming, With every other long press, the light level goes to the opposite direction.

• Dimming memory:

Light returns to the previous dimming level when switched off and on again, even at power failure.

• Synchronization:

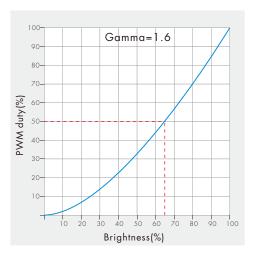
If more than one controller are connected to the same push switch, do a long press for more than 10s, then the system is synchronized and all lights in the group dim up to 100%.

This means there is no need for any additional synchrony wire in larger installations.

We recommend the number of controllers connected to a push switch does not exceed 25 pieces,

The maximum length of the wires from push to controller should be no more than 20 meters.

Dimming Curve



Malfunctions Analysis & Troubleshooting

Malfunctions	Causes	Troubleshooting	
No light	 No power. Wrong connection or insecure. 	1. Check the power. 2. Check the connection.	
Uneven intensity between front and rear,with voltage drop	 Output cable is too long. Wire diameter is too small. Overload beyond power supply capability. Overload beyond controller capability. 	 Reduce cable or loop supply. Change wider wire. Replace higher power supply. Add power repeater. 	
No response from the remote	 The battery has no power. Beyond controllable distance. The controller did not match the remote. 	 Replace battery. Reduce remote distance. Re-match the remote. 	

WiFi & RF 5 in 1 LED Controller

Model No.: WT5

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



FC C CE RoHS EMC LVD RED

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 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 WiFirRF converter, then use Tuya APP to control one or more RF LED controller or RF LED dimming driver synchronously.

Technical Parameters

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

EMC standard (EMC)	EN55015,EN61547
Safety standard(LVD)	EN61347,EN62493
Radio Equipment(RED)	EN300 440,EN50663,EN301 489
Certification(CE-RED)	Safety+EMC+RF

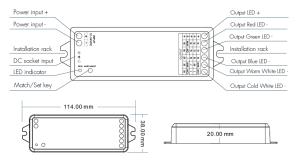
Environment	
Operation temperature	Ta: -30°C ~ +55°C
Case temperature (Max.)	Tc:+85°C
IP rating	IP20

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

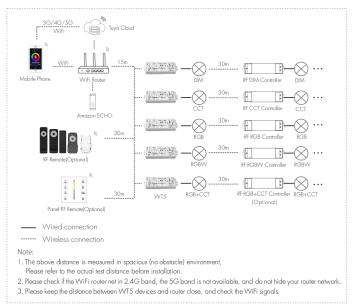
Dimming data	
Input signal	

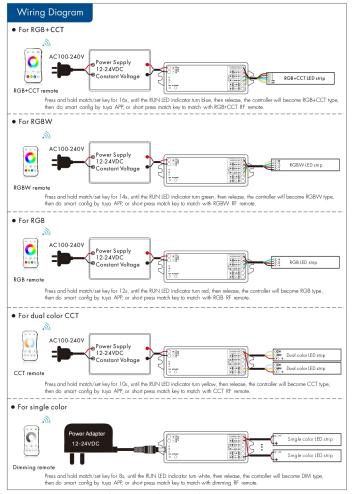
PP + RF 2.4GHz
arrierfree space)
(2^12) levels
%
hmic
: (default)

Mechanical Structures and Installations



System wiring





Note: User can connect constant voltage power supply or power adapter as power input.

Tuya APP network connection

Press and hold Match/Set key for 2s, or push twice Match/Set key fastly, or when press and hold Match/Set key for 8-1 6s to set 5 kinds light type: Clear previous network connection, enter Smart config mode, the purple LED indicator fast flash.

Press and hold Match/Set key for 5s:

Clear previous network connection, enter AP config mode, the purple LED indicator fast slow. If smart config failed, please try AP config.

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 SKYDANCE-RGB+CCT device (or other DIM, CCT, RGB or RGBW).

Tuya 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 silde 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 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.

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	ł	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 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 an power 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	-	Use Power Restart
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.		Match: Switch off the power of the controller, then switch on power 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 all matched remotes were deleted.		Delete: Switch off the power of the controller, then switch on power again, immediately short press on/off key 5 times on the Tuya APP. The light blinks 5 times means all matched remotes were deleted.

RGB dynamic mode list

For RGB/RGBW:

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	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