



# iled CUIL.SC11 Dual Color LED Controller Kit Instruction Manual

[Home](#) » [iled](#) » [iled CUIL.SC11 Dual Color LED Controller Kit Instruction Manual](#) 

## Contents

- [1 iled CUIL.SC11 Dual Color LED Controller Kit](#)
- [2 Product Information:](#)
- [3 Product Usage Instructions:](#)
- [4 Features](#)
- [5 Technical Parameters](#)
- [6 Mechanical Structures and Installations](#)
- [7 Wiring Diagram](#)
- [8 Key Function](#)
- [9 Match Remote Control \(two match ways\)](#)
  - [9.1 Light on/off fade time](#)
  - [9.2 Application notes](#)
  - [9.3 Dual color control](#)
- [10 Malfunctions Analysis & Troubleshooting](#)
- [11 Documents / Resources](#)
- [12 Related Posts](#)



**iled CUIL.SC11 Dual Color LED Controller Kit**



## Product Information:

The product is a LED light with a color temperature of cool white, neutral white, and warm white. The dimensions of the light are 58.5mm x 58.5mm. The power distribution for each color temperature is as follows:

- Cool white – CH1=0W,CH2=120W
- Neutral white – CH1=60W,CH2=60W
- Warm white – CH1=120W,CH2=0W

The product may experience the following malfunctions:

- No light
- Uneven intensity between front and rear, with voltage drop
- No response from the remote

The causes for these malfunctions may be:

1. No power
2. Wrong connection or insecure
3. Output cable is too long
4. Wire diameter is too small
5. Overload beyond power supply capability
6. Overload beyond controller capability
7. The battery has no power
8. Beyond controllable distance
9. The controller did not match the remote

## Product Usage Instructions:

To use the LED light, follow these steps:

1. Ensure that there is power supply to the light.
2. Make sure that the connection is secure and correct.
3. If there is uneven intensity between front and rear, with voltage drop, reduce the cable or loop supply, change to wider wire, replace with a higher power supply, or add a power repeater.
4. If there is no response from the remote, replace the battery, reduce the remote distance, or re-match the remote to the controller.

## Features

- Ultra sensitive color adjustment touch slide
- Smooth dimming and switch without any flickering
- Auto-transmitting function: Controller automatically transmit signal to another controller with 30m control distance
- Synchronize on multiple number of controllers
- Light on/off fade time 3s selectable

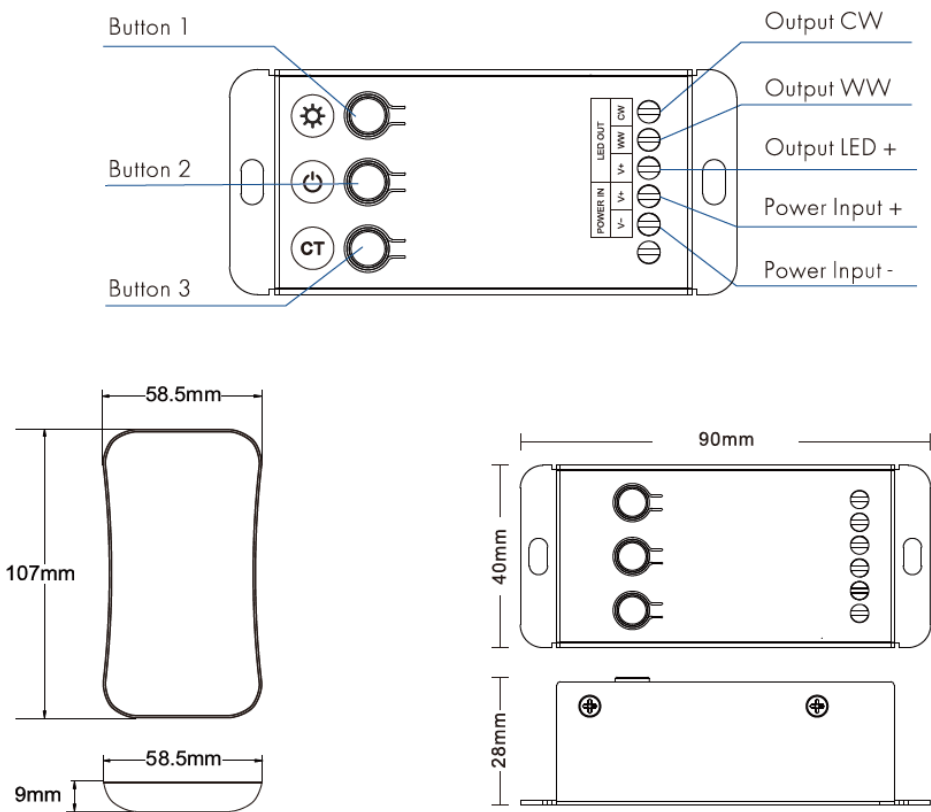
## Technical Parameters

Input and Output	
Input voltage	I 2-24VDC
Input current	20.5A
Output voltage	2' I12-24IVDC
Output current	2x 10A@500Hz/2KHz 2xBA@BKHz 2x6A@I6KHz
Outputp:ier	24(r480W@500Hz/2KHz 192 384W@8KHz I20-240W@ I 6KHz

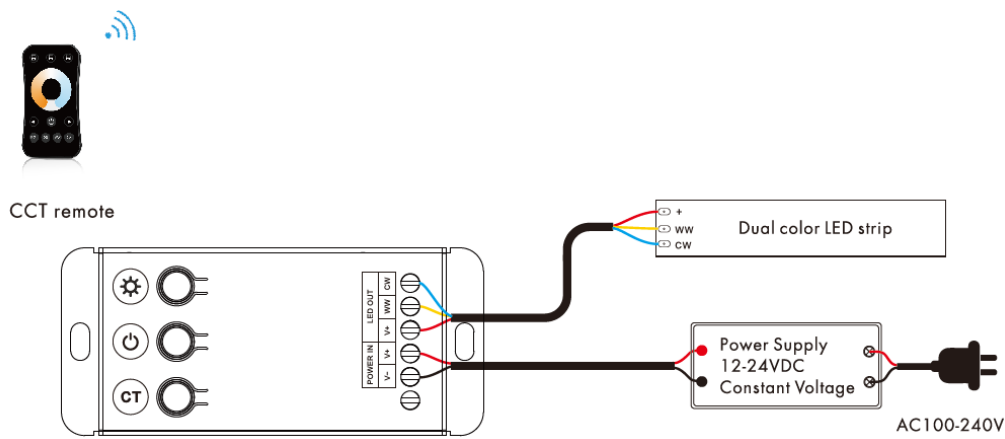
Input signal	3-button + RF 2.4GHz
Control distance	30mI(Borrier-free 5fXJCe)
Dimming gray scale	40Q6 I2' 12) Ie,eb
Dimming range	0-100%
Dimming curve	linear
PWM frequency	500Hz/2KHz/BKHz/ 16KHz

LED Remote's Input and Output	
Output signal	Rf12 4GHz)
Working voltage	3VDCICR2032I
Working current	<5mA
Standby current	
Standby time	1 year
Remote distance	30m
Environment	
Operation temperature	
Case temperature (Tc)	+85°(

Mechanical Structures and Installations

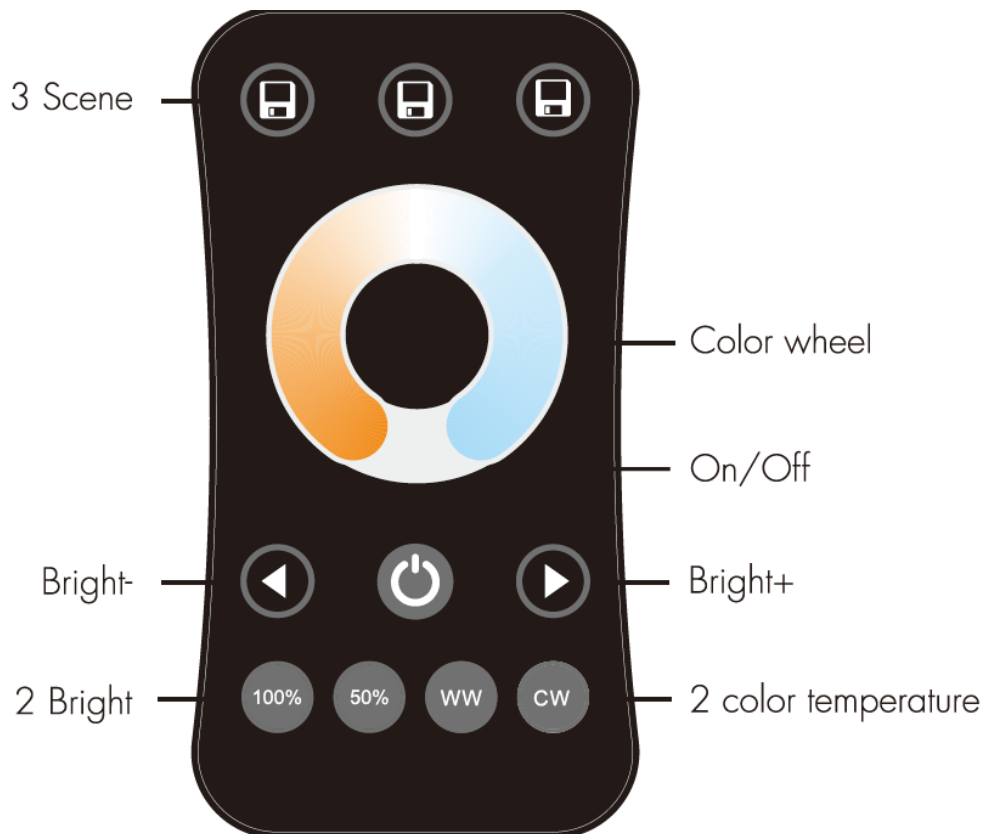


Wiring Diagram



## Key Function

- On/Off: Turn on/off light.
- Color wheel: Touch to change color temperature.
- Bright+/-: Adjust brightness, short press 10 levels, long press 1-6s for continuous 256 levels adjustment.
- 100%,50%: Get 100% or 50% brightness directly.
- WW: Get warm white directly.
- NW: Get cold white directly.
- 3 Scene: Short press recall the scene, long press 2s save current color into the scene.



## 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 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, repeat again.

Immediately short press on/off key 3 times on the remote.

The light blinks 3 times means match is successful.

#### Delete:

Switch off the power, then switch on power, repeat again.

Immediately short press on/off key 5 times on the remote.

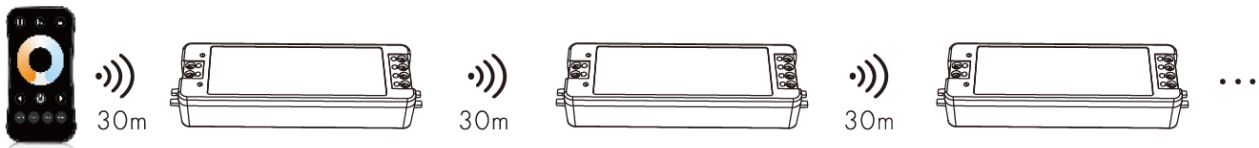
The light blinks 5 times means all matched remotes were deleted.

### Light on/off fade time

Long press match key 5s, then short press match key 3 times, the light on/off time will be set to 3s, the indicator light blink 3 times. long press match key 10s, restore factory default parameter, the light on /off time also restore to 0.5s.

### Application notes

All the receivers are matched with one 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 extended.

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

### Dual color control

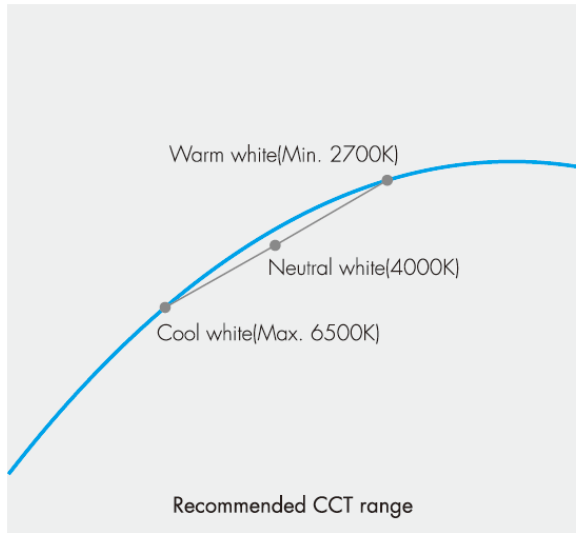
CH1=Warm white LED

CH2=Cool white LED

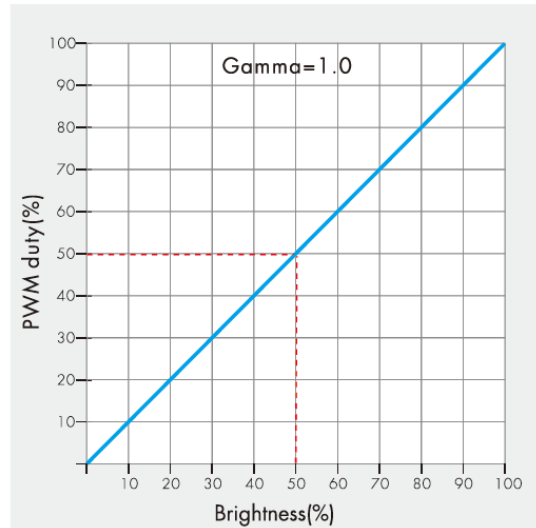
**Each channel can supply up to 120W|@24V and white balance can be controlled as such:**

Color temperature	Cool white	Neutral white	Warm white
Power distribution	CH1=0W,CH2=120W	CH1=60W,CH2=60W	CH1=120W,CH2=0W

Linear dual color tuning



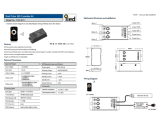
Dimming curve



## Malfunctions Analysis & Troubleshooting

Malfunctions	Causes	Troubleshooting
No light	<ol style="list-style-type: none"> <li>1. No power.</li> <li>2. Wrong connection or insecure.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the power.</li> <li>2. Check the connection.</li> </ol>
Uneven intensity between front and rear, with voltage drop	<ol style="list-style-type: none"> <li>1. Output cable is too long.</li> <li>2. Wire diameter is too small.</li> <li>3. Overload beyond power supply capability.</li> <li>4. Overload beyond controller capability.</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce cable or loop supply.</li> <li>2. Change wider wire.</li> <li>3. Replace higher power supply.</li> <li>4. Add power repeater.</li> </ol>
No response from the remote	<ol style="list-style-type: none"> <li>1. The battery has no power.</li> <li>2. Beyond controllable distance.</li> <li>3. The controller did not match the remote.</li> </ol>	<ol style="list-style-type: none"> <li>1. 1. Replace battery.</li> <li>2. 2. Reduce remote distance.</li> <li>3. 3. Re-match the remote.</li> </ol>

## Documents / Resources

	<a href="#">iled CUIL.SC11 Dual Color LED Controller Kit</a> [pdf] Instruction Manual CUIL.SC11 Dual Color LED Controller Kit, CUIL.SC11, Dual Color LED Controller Kit, Color LED Controller Kit, LED Controller Kit, Controller Kit, Kit
---	---