意大利KOSOOM 优莱米控制器C51RF（KPR-5）/（C31RF） 说明书　　订单号：KS2026-077
材质：480g双胶纸,双面彩色印刷　　尺寸：282X156mm

KOSOOM

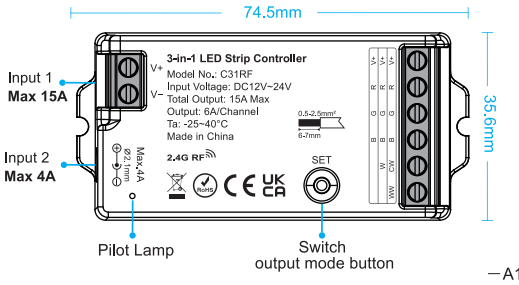
Manual Instruction
2.4G RF LED Strip Controller

Model No.: C31RF/C51RF

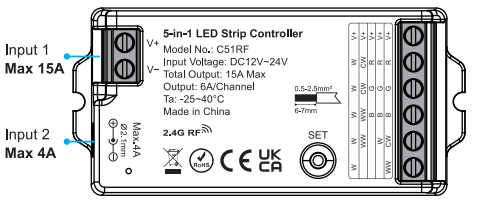
1. Features
This RF LED strip controller is our new high-end model and adopts the widely used 2.4GHz wireless technology. It works with our 2.4G remotes, smartphones, and 4G long-distance control (2.4GHz gateway required).
Featuring auto-transmission and auto-synchronization, it supports brightness adjustment. It offers low power consumption, long signal range and strong anti-interference. One remote can control multiple controllers at once.Perfect for hotel and home lighting control.

- 16 Millions of colors to choose
- 2.4G RF wireless transmission technology
- Color temperature 2700~6500K
- Smartphone APP control (2.4GHz gateway is needed)
- Dim brightness/ saturation
- Support third party voice control (2.4GHz gateway is needed)
- Auto-transmitting & Synchronization
- Remote control Control distance 30m
- Overheating protection
- Group control
- Do not disturb function
- PWM frequency adjustable

2. Parameters
Model No.: C31RF
Input Voltage: DC12V~24V(5.5*2.1mm)
Output: 6A/Channel (Total Output Max: 15A)
Working Temperature: -25~40°C
Size: 74.5*35.6*16.5mm
Output Mode: RGB / RGBW / RGBCCT
RF Control Distance: 30M



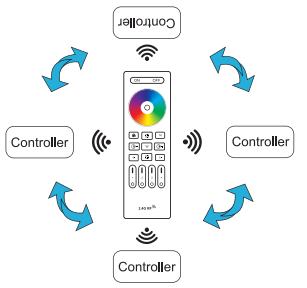
Model No.: C51RF
Input Voltage: DC12V~24V(5.5*2.1mm)
Output: 6A/Channel (Total Output Max: 15A)
Working Temperature: -25~40°C
Size: 74.5*35.6*16.5mm
Output Mode: Single Color / CCT / RGB / RGBW / RGBCCT
RF Control Distance: 30M



3. Switch output mode
Press the " SET " key briefly. The indicator lights in different colors will flash to represent different output modes, as detailed in the table below.

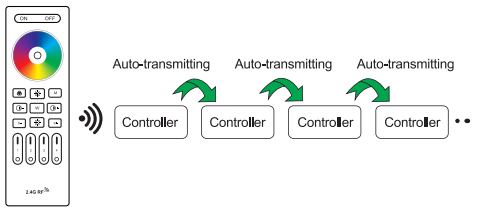
	White Light Flickering	Yellow Light Flickering	Red Light Flickering	Green Light Flickering	Blue Light Flickering
C31RF	\	\	RGB Mode	RGBW Mode	RGB+CCT Mode (Default Mode)
C51RF	Single Color Mode	Dual White Mode	RGB Mode	RGBW Mode	RGB+CCT Mode (Default Mode)

4. Auto-synchronization function
Different controllers can work synchronously when they are started at different times, controlled by the same remote, under same dynamic mode and with same speed.

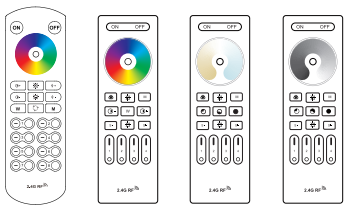


Remark:
1. Indicating Auto-transmitting.
2. Controller will be auto-synchronizing in the same. dynamic modes and within 30m controlling distance.

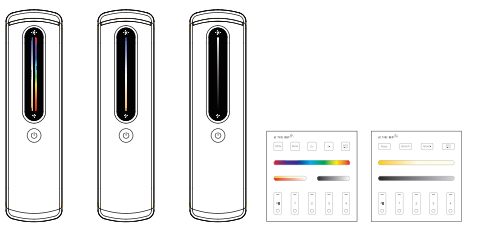
5.Auto-transmitting Diagram
One strip controller can transmit the signals from the remote control to another controller within 30m, as long as there is a strip controller within 30m,the remote control distance can be limitless.



6. Remote Controller
Compatible with these remote controls (Purchased separately). For more details, pls read the remote instruction.



RC04RF/ RC04RFB　RC03RF/ RC03RFB　RC02RF/ RC02RFB　RC01RF/ RC01RFB



RC09RF/ RC09RFB　RC08RF/ RC08RFB　RC07RF/ RC07RFB　WR01RF　WR02RF

Lighting can be working after linking with remote; for more details, pls read the remote instruction.

7. PWM Frequency Switching
Press and hold the SET button for more than 15 seconds:

Indicator light color	Pilot lamp	Pilot lamp
PWM frequency	When the green indicator flashes slowly, the controller switches to 2KHz high-frequency mode.	When the blue indicator flashes slowly, the controller switches to 1KHz low-frequency mode (default frequency).

Linking with remote control
First way:
Press and hold the "SET" button for more than 3 seconds until the light flickers once, indicating that the controller has entered linking mode. Next, quickly press the any zone "ON" button on the remote control 3 times. If the light flickers 3 times in response, this confirms that the linking process was successful.

Second way:
When the light is on, turn it off and wait 10 seconds, then turn it back on. Quickly press any zone "ON" button on the remote 3 times within 5 seconds. The light will flash 3 times, indicating a successful pairing.

Unlinking with remote control
First way:
Press and hold the "SET" button for over 3 seconds until the light flickers once. Then, press the linked zone "ON" button on the remote 5 times within 5 seconds. If the light flickers slowly 10 times, the unlinking is successful.

Second way:
When the light is on, turn it off and wait 10 seconds, then turn it back on. Quickly press linked zone "ON" button on the remote 5 times within 5 seconds. The light will flash 10 times, indicating a successful unlinking.

Do Not Disturb
What is Do Not Disturb: When switching off the power, then switching on, the lights keep off without disturbing the rest of users.

Application to use Do not disturbing function:
1.Widely use on the area where there is power failure frequently to save energy.
2.When users go outside for long time, set up Do not disturb to avoid there is short circuit during this time.

Set up Do Not Disturb:
When the lights ON and not under dynamic mode, long press linked remote S+ button for 10 seconds, when the white lights blink once, set up the Do not disturb successfully.

Note:
1.Do not Disturb will be available when the light is under OFF mode by remote or APP.
2.When users set up Do not Disturb, the lights need to be switched OFF-ON twice within 5 seconds or use linked remote and APP to turn on the lights normally.

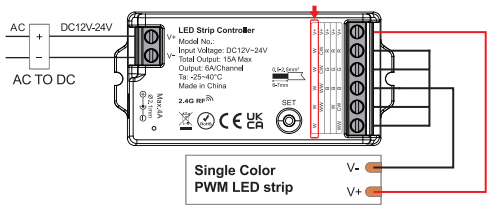
Delete Do Not Disturb:
When the lights ON and not under dynamic mode, long press linked remote S- button for 10 seconds, when the white lights blink 3 times, delete the Do not disturb successfully.

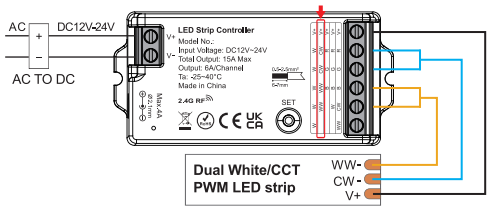
Note:
1.This controller is set by default to enable the " Do Not Disturb " function.
2.After delete the Do Not Disturb, the lights will be ON when you switch OFF, then switch ON the power.
3.Please use our RC01RF or RC02RF remote or wall remote to set up or delete Do Not Disturb.

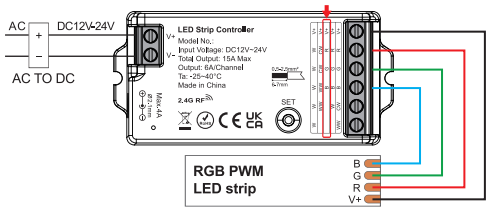
8. remote dynamic mode

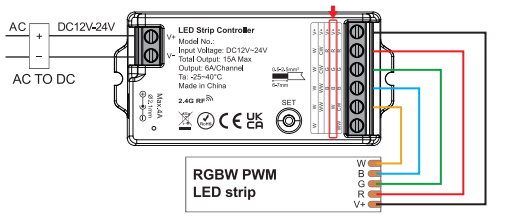
Dynamic mode controlled by remote control		
Dynamic mode No.	mode	Compatible Models
1	Seven color jumps: red,orange, yellow,green,cyan,blue,purple	RGBCCT LED Controllers
2	Seven color gradients: Red,Orange, Yellow,Green,Cyan,Blue,Purple.	
3	Six color breathing changes: Red, Yellow,Green,Cyan,Blue,Purple.	
4	Colorful 360-degree cyclic gradient.	RGBW LED Controllers
5	Colorful random jump change	
6	Red to yellow gradient	
7	Cyan to Blue gradient	RGB LED Controllers
8	red to purple gradient	
9	green to cyan gradient	
*The Single color and CCT LED controller does not support the dynamic mode of the remote control.		

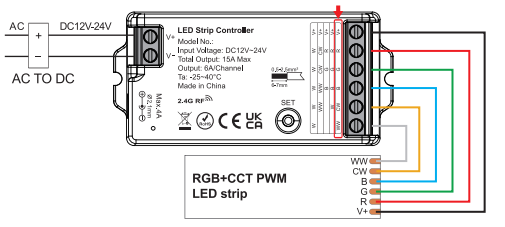
9. Controller connect to LED strip diagram
The controller should be installed as close to the power supply as possible. In particular, when the current exceeds 10A, the wiring length between the power supply and the controller must not exceed 1 meter.

9.1. Connect to Single Color LED strip diagram


9.2. Connect to CCT LED strip diagram


9.3. Connect to RGB LED strip diagram


9.4. Connect to RGBW LED strip diagram


9.5. Connect to RGB+CCT LED strip diagram


Attention
1. Please check whether the input voltage of the constant voltage power supply is in accordance with the controller, and please check the connection of both the cathode and anode.
2. The working Voltage is DC12~24V,the controller will be broken if the voltage is higher than 24V.
3. Non-professional user cannot dismantle the controller directly, otherwise, it may cause fire and electric shock.
4. The working temperature is -25~40°C; Do not use the device to direct sunlight, moist and other high temperature area.
5. Please do not use controller around the mental area and high magnetic field, otherwise,it will badly affect the control distance.
6.When the device load to 12A,wire diameter must be over 1.5mm².
7.The light automatically turns off during operation and then automatically turns back on after a while. This indicates that the overheating protection has been triggered. Please reduce the load power.

Controller can not use in humid area

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