

Mi·Light® User Instruction

4 IN 1 Smart LED Controller Model No.: LS1

01/ Product photo



02/ Introduction

4 in 1(Single Color&CCT&RGB&RGBW) smart strip controller is our newly developed high-end LED controller controlled by wireless remote controller, also with smart phone control and 4G long distance control(need WIFI box). The controller has auto-transmitting and auto-synchronizing function and with brightness(LED1), CCT(LED2), RGB(LED3) and RGBW(LED4) output mode. This controller adopt the widely used 2.4GHz wireless technology with the features of low power consumption, long signal transmitting and strong anti-interference,etc. One compatible remote control many controllers at the same time. Widely used on the controlling of hotel lighting and home lighting.

03/ Technical Data



Model No.: LS1
Working Temperature: -20 -60°C
Input Voltage: DC12V-24V
Output: 6A/Channel
Total Output Max: 15A
Control Distance: 30m
Connection: Common anode
Size: 138*35*23mm
Weight: 62g

04/ Link&Unlink

Link:
Turn off the power, then turn on again. Press "ON" 3 times within 3 seconds, The LED light blinks 3 times slowly when it is done.
Unlink:
Turn off the power, then turn on again, Press "ON" button 5 times within 3 seconds. The LED light blinks 10 times swiftly when it is done.

05/ Functions

1. Display function Instruction

This controller adopt 4 bits digital tube to show the output mode, ID number and Group number.

(1) Display LED1-4 (Output Mode)

LED1: Indicate 1 channel output, compatible to single color LED strip, brightness dimming.

LED2: Indicate 2 channels output, compatible to CCT LED strip, brightness dimming and CCT adjustable.

LED3: Indicate 3 channels output, compatible to RGB LED strip, color changing and brightness dimming.

LED4: Indicate 4 channels output, compatible to RGBW LED strip, color changing and brightness dimming.

(2)Display 0000: Indicate the current controller ID number.

(3)Display CH00: Indicate the current Group Number.

2. Function of keys

K1 Key Button:

Short press K1 once, digital tube show current status and it will last 5 seconds, then short press K1 once again, switch to next status and it will last 5 seconds. Long press K1 once, come into the edit mode of current status, then long press K1 once again, cancel the edit mode. under the edit mode, short press K1, switch to next edit mode.

IE: Digital tube show 1234.

When come to edit mode, 1 blinking means 1 can be edited, press K2 to modify the data. Short press K1 to next edit number, 2 will blink to edit as same as previous process .When any digital tube blinking means this number can be edited, press K2 to modify the data.

K2 Key Button

Under the number edit mode, this number will blink, short press K2 to modify the data. K2 is available only under the number edit mode.

Remark: K1 and K2 can adjust the output mode, any group number and ID number. Remote controller just can edit the group number.

3. Button Instruction of Remote Controller

ON:

Short press to turn on.

OFF:

Short press to turn off. Long press to night light mode..

SHIFT:

Switch the Group & ID number, long press number button to change Group and ID number.

EDIT:

When showing the remote group number, press EDIT button, switch to remote ID number. When remote and controller showing the same ID number, press EDIT button to group edit status and choose group number according to the numbers.

S:

Long press "S" button, "save" blinks to save the lighting status to that number. Short press "S" button, "select" blinks to select the lighting status of the number.

M:

Short press "M", "Mode" blinks, then press Number(1-9) to choose the dynamic mode(M1-M9).

Brightness Slider:

Adjust the brightness (1%-100%).

CCT Slider:

Come to Static white light mode. Adjust color temperature from 2700K-6500K under the mode of LED2 & LED3.

Color Ring:

Change colors under LED3 & LED4 mode It is not available under LED1&LED2 mode.

Saturation Slider:

Adjust brightness under LED1 & LED2 Mode. Adjust the saturation under LED3&LED4 Mode.

UP/DOWN:

Change mode +/-

L/R :

Adjust dynamic mode speed.

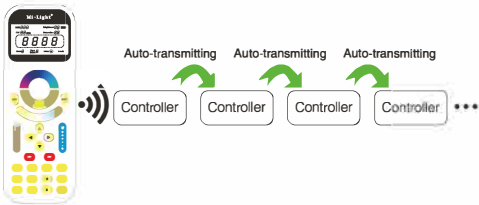
Remark:

When showing the group Number, remote controller can control the corresponding linked controllers in the same group.

When showing the ID Number, remote controller can control the corresponding linked controllers with same ID.

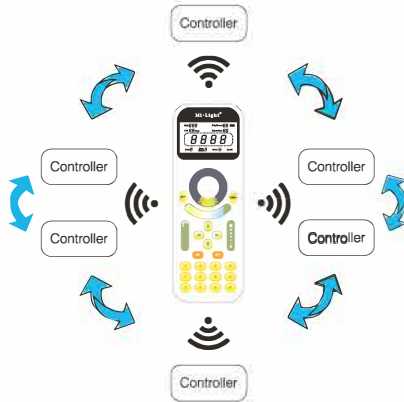
When showing CH00, remote can control all linked controllers.

4. Controller Auto-transmitting & Auto-synchronization function



Auto-transmitting Diagram

Auto- transmitting: 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.



Auto-synchronization Diagram

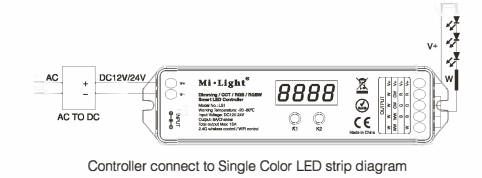
Auto-synchronization: Different controllers can work synchronously when they are started at different times, controlled by the same remote, under same dynamic mode and with same speed.

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

5. Dynamic Mode Sheet (LED1 / LED2 / LED3 / LED4)

Number	Dynamic mode		Brightness	Speed
	LED1&LED2	LED3&LED4		
1	White gradual change	colors gradual change	Adjustable	Adjustable
2	White jump to change	White gradual change		
3	White flicking change	RGB colorgradual change		
4	White Gradual + Jump to change	7 colors jump to change		
5	NC	Random jump to change		
6	NC	RED Gradual + Jump to change		
7	NC	Green Gradual + Jump to change		
8	NC	Blue Gradual + Jump to change		
9	NC	White Gradual + Jump to change		

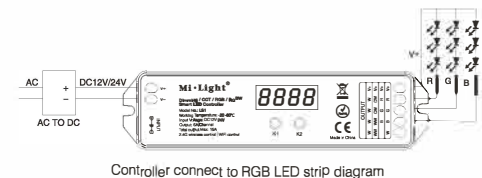
06/ Controller connect to LED strip diagram



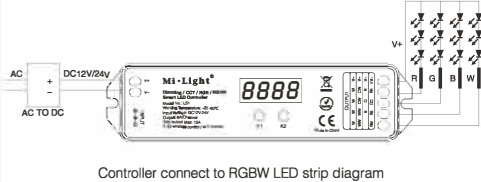
Controller connect to Single Color LED strip diagram



Controller connect to CCT LED strip diagram



Controller connect to RGB LED strip diagram



Controller connect to RGBW LED strip diagram

07/ Attention

- 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, otherwise the controller will be broken.
- Please don't connect wires with power on.
- Please turn on again only when it is in right connection and no short circuit.
- Please do not use the controller in the place with widely range metal area or strong electromagnetic wave nearby, otherwise, the remote distance will be seriously affected.