

2 in 1 LED Controller

Model No.: SW2

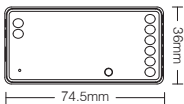
Features

- Zigbee 3.0 standard protocol
- Brightness and color temperature adjustable
- Support PUSH dimming
- Built-in 18 dynamic mode with jumping, gradually changing(only for 2.4G remote control)
- Auto-forwarding: Automatically forward the remote control signal to another controller, making the remote control distance infinite
- Automatic synchronization: The same dynamic mode is automatically synchronized, so that the mode is always consistent
- Have DND function, usually used in power failure area and save power
- Support TUYA SMART app control (Zigbee 3.0 gateway is needed)
- Support third party voice control like Alexa, Google assistant, Yandex Alice, Tmall Genie, Baidu and Xiaomi (Zigbee 3.0 gateway is needed)

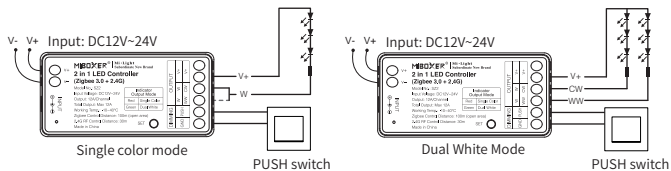


Parameters

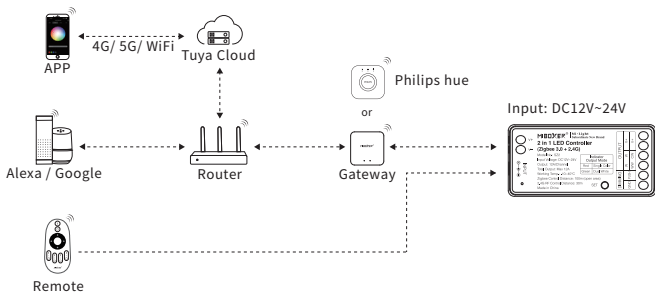
Name: 2 in 1 LED Controller	Working Temperature: -10~40 C
Model No.: SZ2	EMC Standard (EMC): ETSI EN 301 489-1 V2.2.3(2019-11) ETSI EN 301 489-3 V2.3.2 (2023-01)
Input Voltage: DC12~24V	
Output Current: 12A/ Single channel	Safety Standard (LVD): EN 61347-1: 2015+A1:2021 EN 61347-2-11: 2001+A1:2019
Total Output: Max 12A	
Protocol: Zigbee 3.0/ 2.4GHz RF	Radio Equipment (RED): ETSI EN 300 328 V2.2.2 (2019-07)
Control Distance: Zigbee: 100M, 2.4G: 30M	Certification: CE, EMC, LVD, RED
IP Rating: IP20	



Connection Diagram



Application Diagram



Set up output mode

Set up correct output mode based on the feature of lights

Setting method: Press "SET" button continuously to switch output mode (attention: it will log out without operation within 3 seconds)

Output mode sheet (confirm output mode based on color of indicator)

Indicator color	Red Light	Green Light
Output	Single Color Mode	Dual White Mode

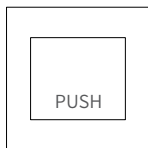
PUSH Dimming

Short press PUSH switch:

Turn ON/OFF light

Long press PUSH switch:

- Stepless dimming brightness.
- Long press and release your finger, then repeat long pressing to increase or decrease brightness.



Compatible with these 2.4G RF remote controls (Purchased separately)



FUT006



FUT007



B1 / B1-B / T1



B2 / T2



K1 / K1-B



FUT087
FUT087-B



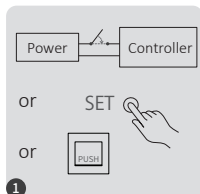
S1-B / S1-W
S1-G



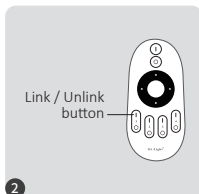
WL-Box1

2.4G RF Remote control instruction

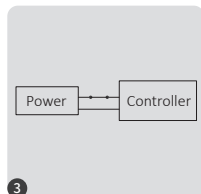
Linking Code Instructions



Power off 10 seconds and power on again or short press "SET" one time or turn on light via PUSH switch



Short press " | " button 3 times within 3 seconds.

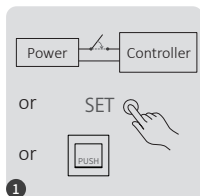


Lights blink 3 times slowly means linking is done successfully.

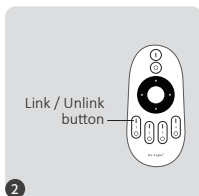


Linking failed if light is not blinking slowly, Please follow above steps again. (Note: Light that have linked can't link again)

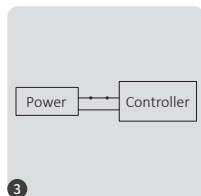
Unlinking Code Instructions



Power off 10 seconds and power on again or short press "SET" one time or turn on light via PUSH switch



Short press " | " button 5 times within 3 seconds.



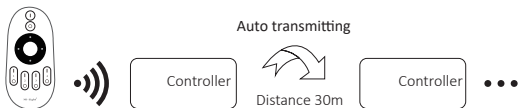
Lights blink 10 times quickly means unlinking is done successfully.



Unlinking failed if light is not blinking quickly, Please follow above steps again. (Note: Light haven't linked that don't need to unlink)

Auto transmitting (2.4G RF remote signal)

The controller can transmit remote signal to another controller automatically while the distance between lights are 30m, the remote control distance is unlimited. (Attention: all controllers must be linked with same remote)



PWM high frequency / low frequency switching (only for remote control)

Switch to high frequency :

Press "OFF" button 1 time within three seconds and press "ON" button 5 times, Activated successfully once led light flashes 2 times quickly.

Switch to low frequency :

Press "ON" button 1 time within three seconds and press "OFF" button 5 times, Activated successfully once led light flashes 2 times slowly.

"Do Not Disturb" mode is activated and shut down (default activated)

Turn on "Do Not Disturb" mode (wide using in the area which have power failure frequently to save energy)

2.4G RF Remote turn on and turn off instruction

Turn on "Do Not Disturb" mode:

Press "OFF" button three times within three seconds and press "ON" button three times, Activated successfully once led light flashes four times quickly.

Attention: Do not disturb mode is activated

1. When the light is OFF status (For example: Use app or remote to turn off light)

The light is OFF status once you turn off power and turn on again.

(User must turn off and turn on power twice times to activate light or use APP / remote to activate light)

2. When the light is ON status

The light is ON status once you turn off and turn on power one time.

Turn off "Do Not Disturb" mode:

Press "ON" button three times within three seconds and press "OFF" button three times, closed successfully once led light flashes four times slowly.

Attention: The light will be always "ON" status if you turn on and turn off power once user closed "Do Not Disturb" mode.

App turn on and off "Do Not Disturb" mode instruction ([check details in page 6](#))

Smartphone APP control instruction

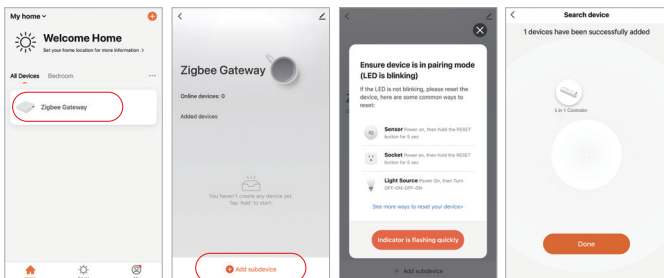
Added Zigbee 3.0 gateway into “Tuya Smart” App (please review instruction of Zigbee 3.0 gateway)

- 1). Connect with power supply.
- 2). Pairing network (**attention: factory default is pairing network**).

Way one: Turn off and turn on light 6 times or over 6 times continuously, the light is in breathing status.

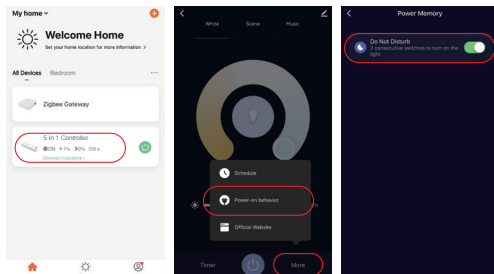
Way two: Long press " SET " key until indicator light flashing.

- 3). Open “Tuya Smart” APP to click Zigbee gateway, then click “Add sub device”.
- 4). Click “Indicator is flashing quickly”.
- 5). Support APP dimming or group control and etc once added successfully.



App turn on and off “Do Not Disturb” mode (default activated)

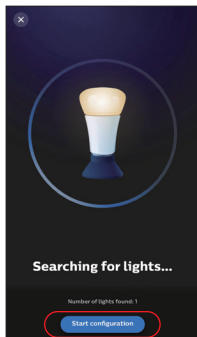
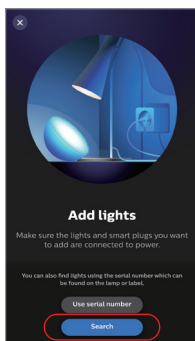
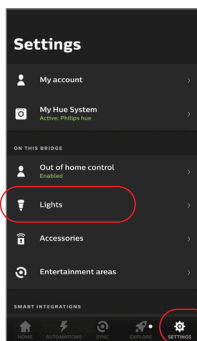
Click the light which need to be set up or group control --- click “More” --- click “Power-on behavior” --- turn on or off



Philips Hue control instruction

Added "Philips Hue" into APP

- 1). Connect with power supply
- 2). Pairing network (**attention: factory default is pairing network**)
Way one: Turn off and turn on light 6 times or over 6 times continuously, the light is in breathing status.
Way two: Long press " SET " key until indicator light flashing.
- 3). Open "Philips Hue" App to click "SETTINGS" and click "Lights"
- 4). Click "+" on the top of right corner
- 5). Click "Search"
- 6). Click "Start configuration", Follow the app instruction to complete configuration



Alexa voice control instruction

1). Alexa control (Audio support Zigbee 3.0 protocol)

You can connect directly if your Amazon ECHO already is built-in zigbee 3.0 protocol, following model with zigbee 3.0 protocol:

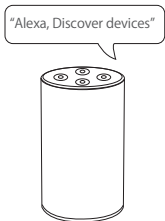
Amazon ECHO Plus (2nd Gen), ECHO (4th Gen), ECHO Studio, ECHO Show (2. Gen)

- 1). Connect with power supply
- 2). Pairing network (**attention: factory default is pairing network**)

Way one: Turn off and turn on light 6 times or over 6 times continuously, the light is in breathing status.

Way two: Long press " SET " key until indicator light flashing.

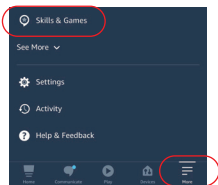
- 3). Say to Amazon ECHO "Alexa, Discover devices"
Wait for a while to discover device, Voice control is activated



2). Alexa control (Audio don't support Zigbee 3.0 protocol)

Please add device into Miboxer Zigbee 3.0 gateway if your Alexa don't support zigbee 3.0 protocol , then start following steps

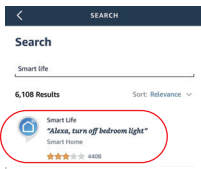
- 1). Open Alexa App
- 2). Click "More" on the bottom of right corner
- 3). Click "Skills & Games"



- 4). Click "Q" on the top of right corner
- 5). Type into "Smart life" and search



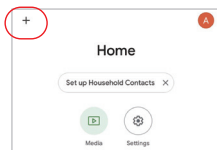
- 6). Click "Smart Life" skill, follow instruction to finish configuration and start voice control



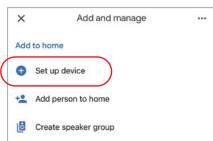
Google Home voice control instruction

Please add device into MiBoxer Zigbee 3.0 gateway ([check details in page 6](#)) and start following steps

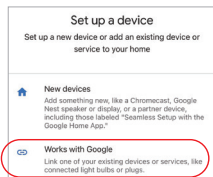
- 1). Open Google Home App
- 2). Click “+” on the top of left corner



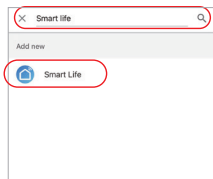
- 3). Click “Set up device”



- 4). Click “Works with Google”



- 5). Click “Q” on the top of right corner
- 6). Type into “Smart life” and search
- 7). Click “Smart Life” skill, follow instruction to finish configuration and start voice control



Attention

1. Please turn off power supply before installation.
2. Please ensure input voltage to be same as requirements from device.
3. Don't disassemble device if you are not expert, otherwise it will damage it.
4. Please do not use the light in the place with widely range metal area or strong electromagnetic wave nearby, otherwise, the remote distance will be seriously affected.



Made in China