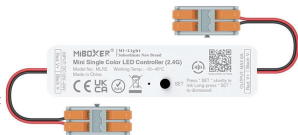# Mini Single Color LED Controller (2.4GHz)

Model No.: MLR2

Features

- 4096 levels smooth dimming, Min brightness 0.1%, dimming range 0.1%-100%
- One controller can be paired with 12 remote (Control distance 30m)
- Auto-forwarding: Automatically forward the remote control signal to another master box, making the remote control distance infinite
- Support do not disturb mode setting, Suitable for areas with frequent power outages to save electricity
- Supports "Tuya Smart" app control (2.4GHz gateway is needed)
- Support Alexa, Google Assistant, Yandex Alice (2.4GHz gateway is needed)

Parameters

Name:	Mini Single Color LED Controller (2.4GHz)	Dimming level:	4096 levels
Model No.:	MLR2	Dimming Range:	0.1%-100%
Input Voltage:	DC12-24V	Dimming Curve:	Logarithmic
Output Current:	Max 6A	EMC Standard (EMC):	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-3 V2.1.1
Output Power:	72-144W		
Output Type:	Constant Voltage	Safety Standard (LVD):	EN 61347-1:2015+A1: 2021 EN 61347-2-11: 2001+A1:2019
Control Signal:	2.4GHz RF		
Control Distance:	30m	Radio Equipment (RED):	ETSI EN 300 440 V2.2.1
IP Rate:	IP20	Certification:	CE, EMC, LVD, RED
Working Temp.:	-10~40℃	Warranty:	5 Years

Indicator light   SET Button

19mm

31mm   76mm   11mm
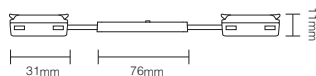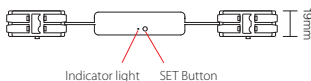
Connection Diagram

Input: DC12-24V
Red: V+
Black: V-

Output: DC12-24V
Red: V+   Black: V-

Wire size: 0.5-4.0mm²
Stripping Length: 10-12mm

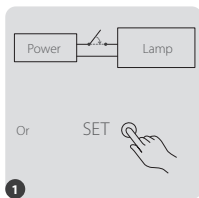# Application Diagram

APP

4G
5G
WiFi

Tuya Cloud

Alexa / Google

Router

Gateway
(WL-Box2)

Input: DC12-24V
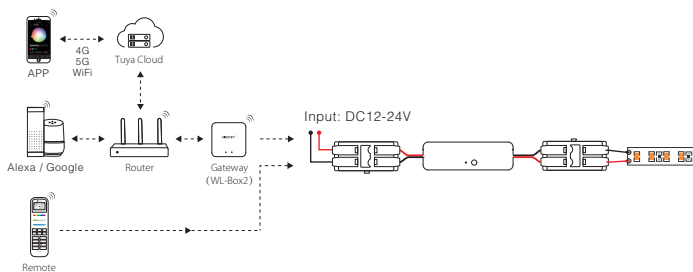
Remote

Compatible with remote control (need to be purchased separately)

C1

FUT006

FUT007

B1 / B1-B / T1

B2 / T2

K1 / K1-B

K2 / K2-B

K3

FUT087
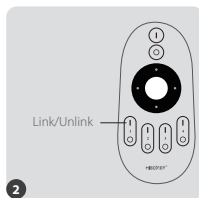FUT087-B

S1-B / S1-W
S1-G

WL-Box2
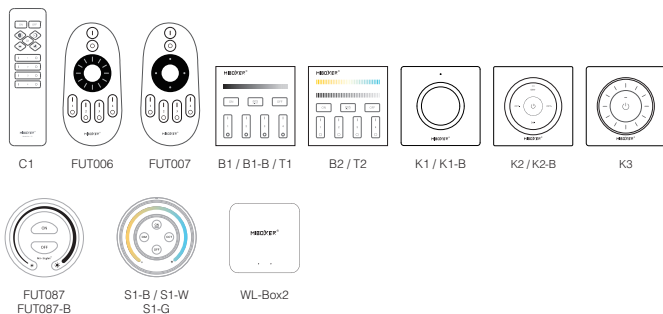
Remote Control Instructions

1). Linking Code Instructions

1 Power off, then power on again after 10 seconds or the "SET" button once or turn on the light through the PUSH switch.

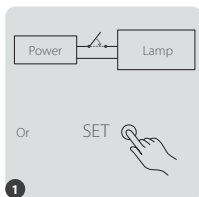**2** Short press the "I" button 3 times within 3 seconds.

3 The light flashes slowly 3 times, indicating successful Linking.
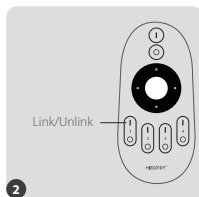
⚠️ If the light does not flash slowly, the code binding failed, please perform the above steps again. (Note: Already coded lamps cannot be coded again).

2). Unlinking Code Instructions

Method 1:

1 Power off, then power on again after 10 seconds or the "SET" button once or turn on the light through the PUSH switch.

2 Short press the "I" button 5 times within 3 seconds.

3 The lamp flashes 10 times quickly, indicating successful unlinking

⚠️ If the light does not flash quickly, unlinking failed, please perform the above steps again. (Note: For lamps that are not coded, no unlinking is required).

Method 2:
Press and hold the "SET" button for 5 seconds, the light flashes 10 times, and the code is cleared successfully.

3). Auto-forwarding & Auto-synchronization

Remote control signal auto-forwarding

The remote control signal received by the host will be forwarded to another host within 30m, making the control distance infinite.

Dynamic mode auto-synchronization

In the same dynamic mode, the lamps will be automatically synchronized so that the dynamic effects are always consistent.

Auto-forwarding & Auto-synchronization

Controller

Distance 30m

Controller

· · ·
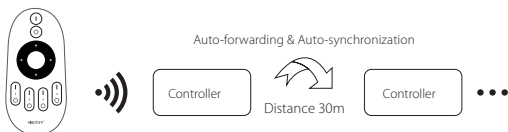
4). Turn Do Not Disturb mode on and off (ON by default)

Turn on "Do Not Disturb" (applicable to areas with frequent power outages to save energy)

Turn on Do Not Disturb mode:

Short press the "OFF" button 3 times within 3 seconds, and then short press the "ON" button 3 times. The light flashes 4 times to indicate success.

Note: When the lamp is powered on again after a power outage, its status (lights on or off) will remain the same as before the power outage.

Turn off Do Not Disturb mode:

Short press the "ON" button 3 times within 3 seconds, and then short press the "OFF" button 3 times. The light flashes 4 times slowly to indicate successful shutdown.

Note: When the lamp is powered on again after a power outage, its status will be on by default.

Notice

1. When installing the device, please turn off the power to ensure safety.

2. Please check if the input voltage is consistent with the device.

3. Non-professional users cannot disassemble the device directly, otherwise the device may be damaged.

4. Do not use the device near large metal areas or areas with strong electromagnetic waves, otherwise the remote control distance will be seriously affected.

Made in China