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MiBOXER
MR2 Mini Single Color LED Controller 2.4GHz

MIBOXER MR2 Mini Single Color LED Controller 2.4GHz Instruction Manual

Contents

MiBOXER

MIBOXER MR2 Mini Single Color LED Controller 2.4GHz

Product Information

Specifications:

- **Name:** Mini 2 in 1 LED Controller (2.4GHz)
- **Model No.:** MR2
- **Input Voltage:** DC12-24V
- **Output Current:** Max 6A
- **Output Power:** 72-144W
- **Output Type:** Constant Voltage
- **Control Signal:** 2.4GHz RF
- **Control Distance:** 30m
- **IP Rate:** IP20

Product Usage Instructions

1. **Linking Code Instructions:**

   Power off the controller and then power on after 10 seconds or press the SET button once. Short press the I button 3 times within 3 seconds. The light will flash slowly 3 times indicating successful linking.

2. **Unlinking Code Instructions:**

   Power off the controller and then power on after 10 seconds or press the SET button once. Short press the I button 5 times within 3 seconds. The lamp will flash quickly 10 times indicating successful unblinking.

3. **Auto-forwarding:**

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

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

   To 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 will flash 4 times to indicate success.

FAQ:

- **Q: Does the controller support Tuya Smart app control?**

  A: Yes, the controller supports Tuya Smart app control, but a 2.4GHz gateway is needed for this functionality.
- **Q: What is the warranty period for this product?**

  A: The product comes with a 5-year warranty.

Features

- Plug in and play and make installation easier
- 4096 levels smooth dimming, Min brightness 0.1%
- Dimming Range 0.1-100%
- One controller can be paired with 12 remotes (Control distance 30m)
- Auto-forwarding: Automatically forward the remote control signal to another controller, 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)
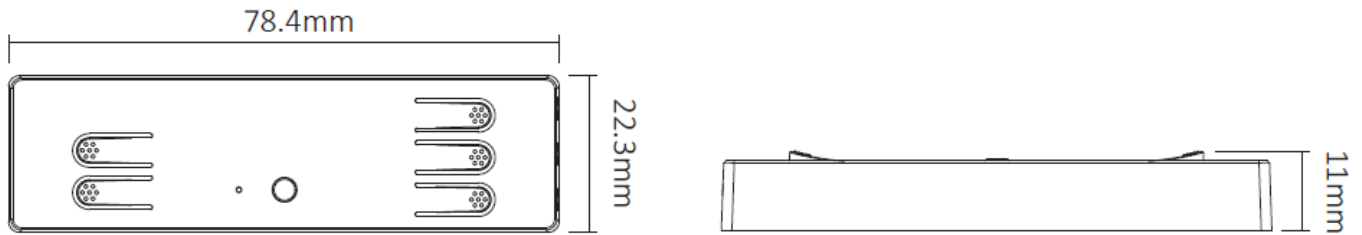- Support Alexa, Google Assistant, Yandex Alice (2.4GHz gateway is needed)

Parameters

- **Name:** Mini 2 in 1 LED Controller (2.4GHz)
- **Model No.:** MR2
- **Input Voltage:** DC12-24V
- **Output Current:** Max 6A
- **Output Power:** 72-144W
- **Output Type:** Constant Voltage
- **Control Signal:** 2.4GHz RF
- **Control Distance:** 30m
- **IP Rate:** IP20
- **Working Temp.:** -10~40°C
- **Dimming level:** 4096 levels
- **Dimming Range:** 0.1%-100%
- **Dimming Curve:** Logarithmic
- **EMC Standard (EMC):**
    - ETSI EN 301 489-1 V2.2.3
    - ETSI EN 301 489-3 V2.1.1
- **Safety Standard (LVD):**
    - **EN 61347-1:** 2015+A1: 2021
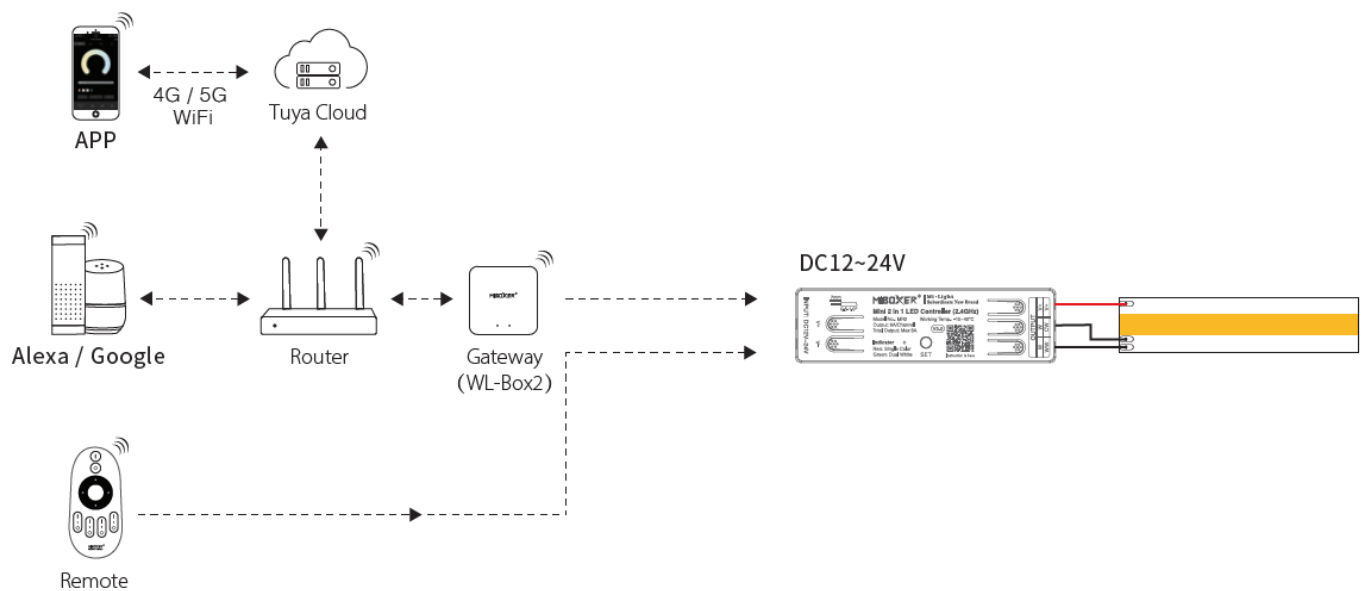
- ○ **EN 61347-2-11:** 2001+A1:2019
- **Radio Equipment (RED):** ETSI EN 300 440 V2.2.1
- **Certification:** CE, EMC, LVD, RED
- **Warranty:** 5 Years
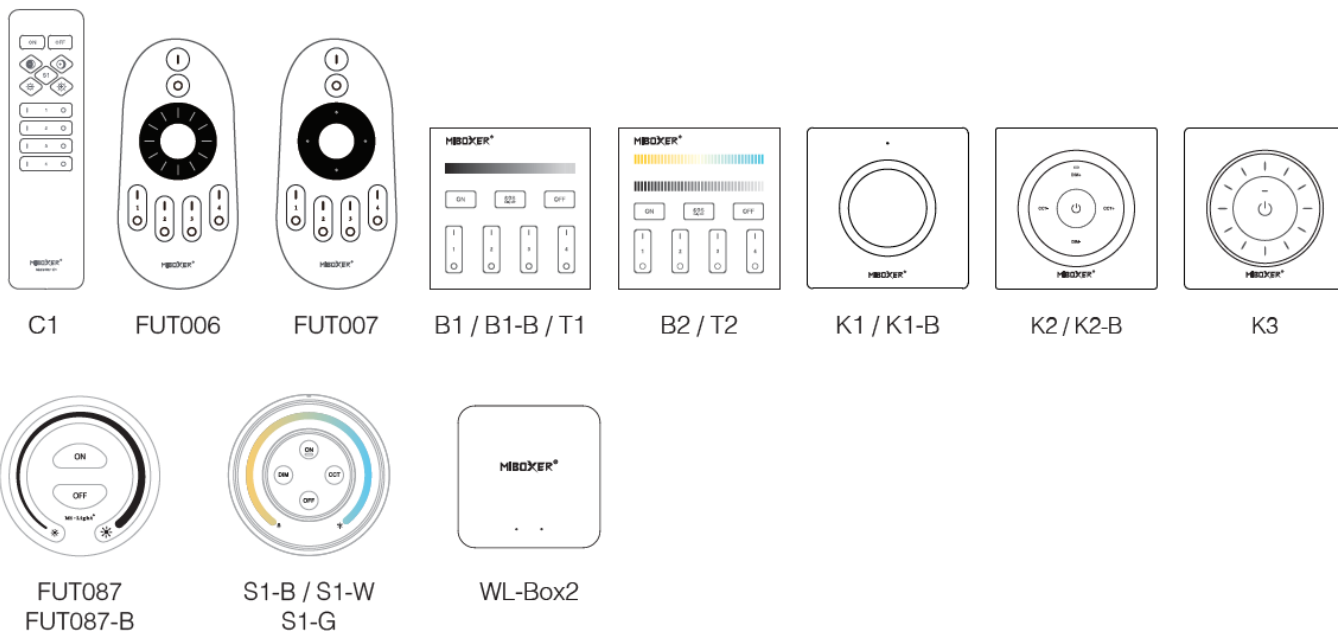

Connection Diagram

Input: DC12V~24V — Single Color Mode

Input: DC12V~24V — Dual White Mode
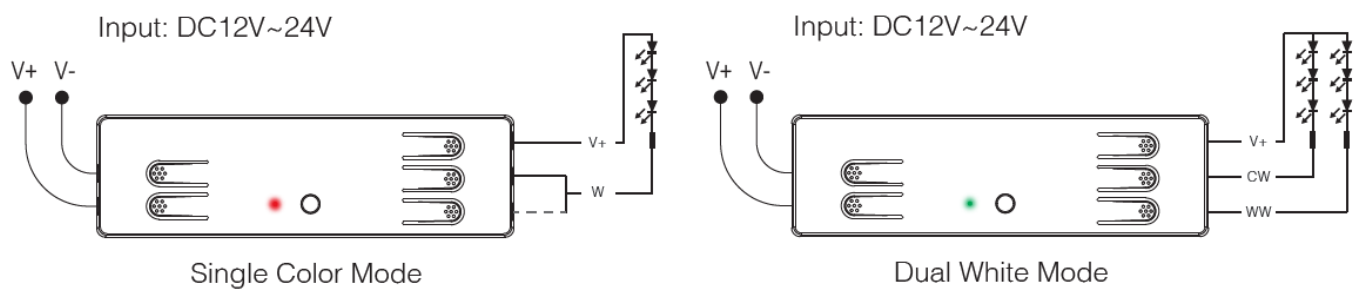
Application Diagram

Compatible with remote control

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 |

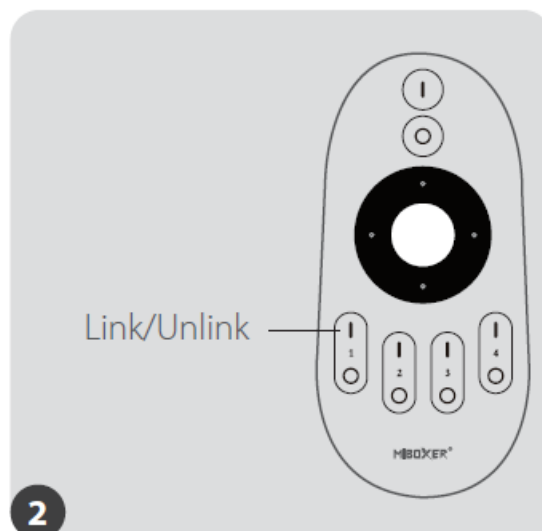| FUT087
FUT087-B | S1-B / S1-W
S1-G | WL-Box2 |

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.

    ```
    Power    Controller

    Or       SET
    ```
    1

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

    Link/Unlink

    2
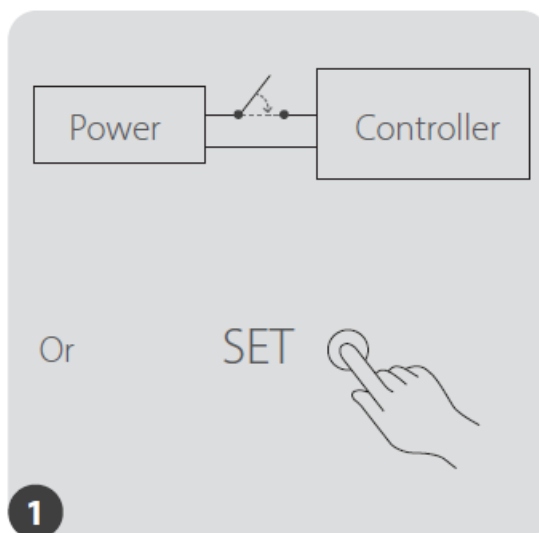
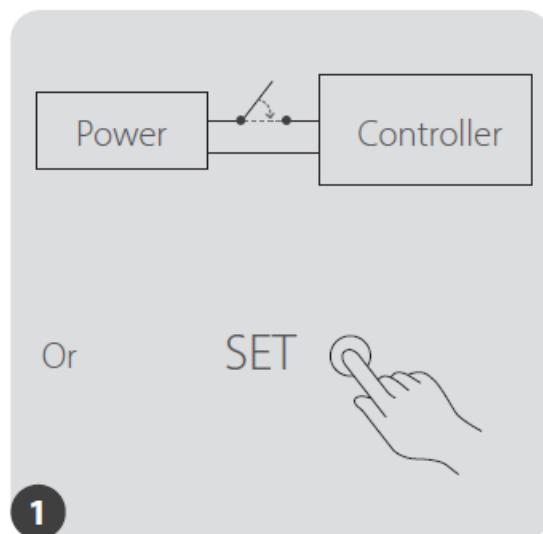3. The light flashes slowly 3 times, indicating successful Linking.

If the light does not flash slowly, the code binding fails, please perform the above steps again. (Note: Already coded lamps cannot be coded again).
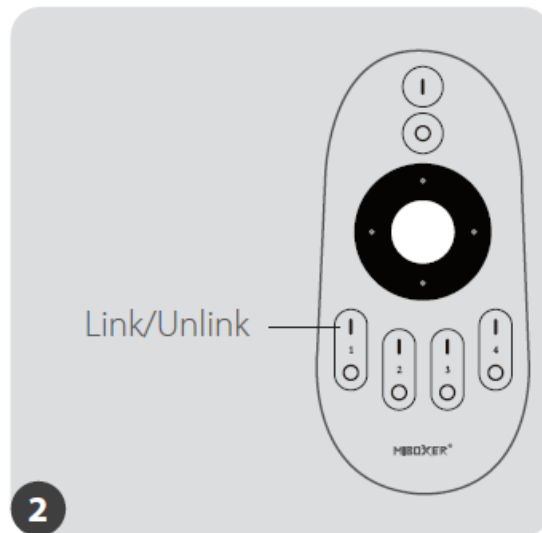
2. **Unlinking Code Instructions**
    1. **Method 1:**
        1. Power off, then power on again after 10 seconds or the "SET" button once, or turn on the light through the PUSH switch.

        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, and unlinking fails, please perform the above steps again.(Note: For lamps that are not coded, no unlinking is required).
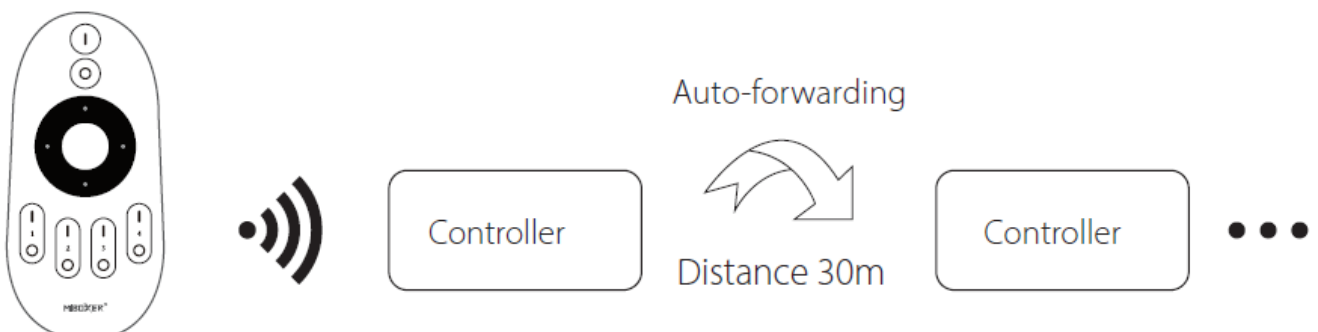
2. **Method 2:**

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

3. **Auto-forwarding**

Remote control signal auto-forwarding

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

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.

5. **PWM high-frequency/low-frequency switching**
    - **Switch to high frequency:**

      Press the "OFF" button 1 time within three seconds and press the "ON" button 5 times, Activated successfully once led light flashes 2 times quickly.
    - **Switch to low frequency:**

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

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.

Documents / Resources

MIBOXER MR2 Mini Single Color LED Controller 2.4GHz [pdf] Instruction Manual
MR2 Mini Single Color LED Controller 2.4GHz, MR2, Mini Single Color LED Controller 2.4GHz, Single Color LED Controller 2.4GHz, Color LED Controller 2.4GHz, LED Controller 2.4GHz, Controller 2.4GHz

References

- **User Manual**