

MiBOXER MF5-12A-24A-ZL

MiBOXER 12W RGB+CCT Magnetic Floodlight User Manual

Model: MF5-12A-24A-ZL

INTRODUCTION

Thank you for choosing the MiBOXER 12W RGB+CCT Magnetic Floodlight. This high-performance smart lighting solution is designed for versatile applications, offering millions of colors and adjustable white temperatures. It features dual connectivity with Zigbee 3.0 and 2.4GHz RF for seamless integration into various smart lighting systems. This manual provides essential information for the safe and efficient use of your floodlight.

SAFETY INFORMATION

- Ensure the power supply is disconnected before installation or maintenance.
- This product is designed for indoor use unless otherwise specified.
- Do not expose the device to excessive moisture or extreme temperatures.
- Only use the specified voltage (12 Volts) for this floodlight.
- Keep out of reach of children.
- Consult a qualified electrician if you are unsure about any installation steps.

PACKAGE CONTENTS

Verify that all components are present in the package:

- 1x MiBOXER 12W RGB+CCT Magnetic Floodlight (Model: MF5-12A-24A-ZL)

Note: Magnetic track and control devices (Zigbee gateway, 2.4GHz remote) are sold separately.

PRODUCT FEATURES

- **Magnetic Track System:** Effortless snap-in installation on compatible magnetic rails.
- **Dual Connectivity:** Supports Zigbee 3.0 standard protocol for smart home integration and 2.4GHz RF for MiBOXER remote control.
- **RGB+CCT Full-Color Customization:** Access to 16 million colors and adjustable color temperature (2700K-6500K).
- **Dimmable Brightness:** Smooth brightness control from 1% to 100%.
- **High-Powered Illumination:** Provides bright and uniform floodlighting at 12W.
- **Multi-Zone Synchronization:** Control multiple floodlights individually or in groups.
- **Signal Transmitting:** One lighting fixture can relay signals from the remote control to other fixtures within 30m, extending control range.

SETUP

1. Magnetic Track Installation

The floodlight is designed for use with a compatible magnetic track system (sold separately).

1. Ensure the magnetic track is properly installed and powered off.
2. Align the magnetic contacts on the floodlight with the track.
3. Gently snap the floodlight into place on the track. The strong magnets will secure it.
4. The floodlight can be moved randomly along the rail to adjust its position.



Image: The MiBOXER magnetic floodlight securely attaches to a magnetic track and can be repositioned freely along its length.

2. Pairing with Zigbee 3.0 Gateway (e.g., Tuya, SmartThings)

To enable smart control features, pair your floodlight with a compatible Zigbee 3.0 gateway (purchased separately).

1. Power on the floodlight.
2. Open your Zigbee 3.0 compatible app (e.g., Tuya Smart, SmartThings).
3. Initiate the device discovery or pairing mode within the app.
4. The floodlight should appear in the app for pairing. Follow the on-screen instructions to complete the

process.

5. Once paired, you can control the floodlight via the app.



Image: The Tuya Smart app allows control of the floodlight when connected to a Zigbee 3.0 gateway.

3. Pairing with MiBOXER 2.4GHz Remote

The floodlight can also be controlled by a MiBOXER/MiLight 2.4GHz remote control (sold separately).

1. Ensure the floodlight is powered on.
2. Refer to your MiBOXER 2.4GHz remote control's manual for specific pairing instructions. Typically, this involves pressing a link button on the remote within a few seconds of powering on the light.
3. Once paired, the remote can control the floodlight within a 25m range.

OPERATING INSTRUCTIONS

1. Color and Brightness Adjustment

- **RGB Color Selection:** Use the color wheel on your smart app or compatible remote to select from 16 million colors.
- **Color Temperature Adjustment:** Adjust the white light from warm white (2700K) to cool white (6500K) via the app or remote.
- **Brightness Control:** Smoothly dim or brighten the light from 1% to 100% using the app or remote.
- **Saturation Adjustment:** Fine-tune the intensity of colors to meet diverse lighting needs.

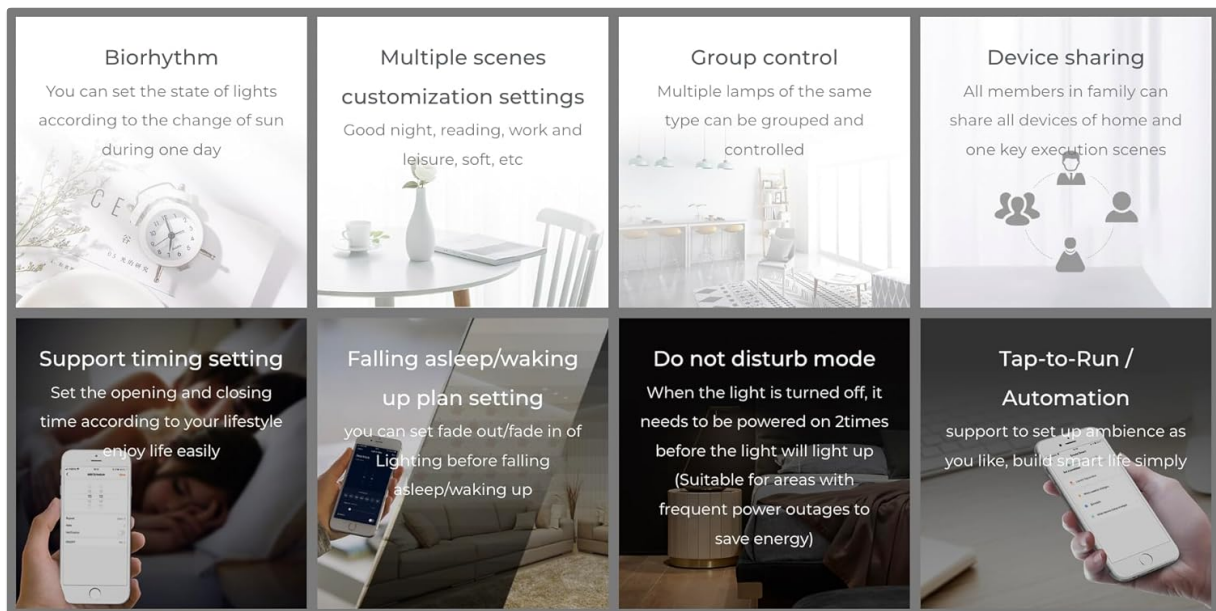


Image: The 2.4GHz RF remote control allows for comprehensive adjustment of color, saturation, color temperature, and brightness.

2. Smart App Control Features (via Zigbee 3.0 Gateway)

When connected to a Zigbee 3.0 gateway and controlled via a smart app (e.g., Tuya Smart), you can access advanced functions:

- **Scene Customization:** Create and save personalized lighting scenes for different moods or activities (e.g., "Good night," "Reading," "Work").
- **Music Rhythm:** Synchronize lighting effects with music.
- **Do Not Disturb Mode:** Prevents the light from turning on automatically after a power outage if it was off before. To activate, turn the light off and on twice quickly.
- **Timing Setting:** Schedule the light to turn on/off or change settings at specific times.
- **Device Sharing:** Share control of the floodlight with other family members.
- **Tap-to-Run & Automation:** Create automated routines based on conditions like time, weather, or other smart devices.
- **Biorhythm:** Adjust lighting automatically according to the natural change of sunlight throughout the day.

[Tuya Smart] APP control

Need to match Zigbee 3.0 gateway to experience more functions (Zigbee 3.0 gateway needs to be purchased separately)

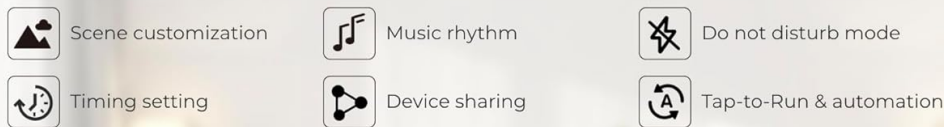


Image: Overview of smart app control features available with a Zigbee 3.0 gateway, enhancing user experience with automation and customization.

3. Signal Transmitting and Modes Synchronization

- **Signal Transmitting:** One lighting fixture can relay signals from the remote control to other lighting fixtures within 30 meters. This extends the effective control distance, making it potentially limitless if fixtures are placed within 30m of each other.
- **Modes Synchronization:** Multiple lighting fixtures can operate synchronously, even if started at different times, when controlled by the same remote and within a 30-meter distance under the same dynamic mode.

Signal transmitting

One lighting fixtures can transmit the signals from the remote control to another lighting fixtures within 30m, as long as there is a lighting fixtures within 30m, the remote control distance can be limitless.

Modes synchronization

Different lighting fixtures can work synchronously when they are started at different times, controlled by the same remote, under same dynamic mode and within 30m distance.

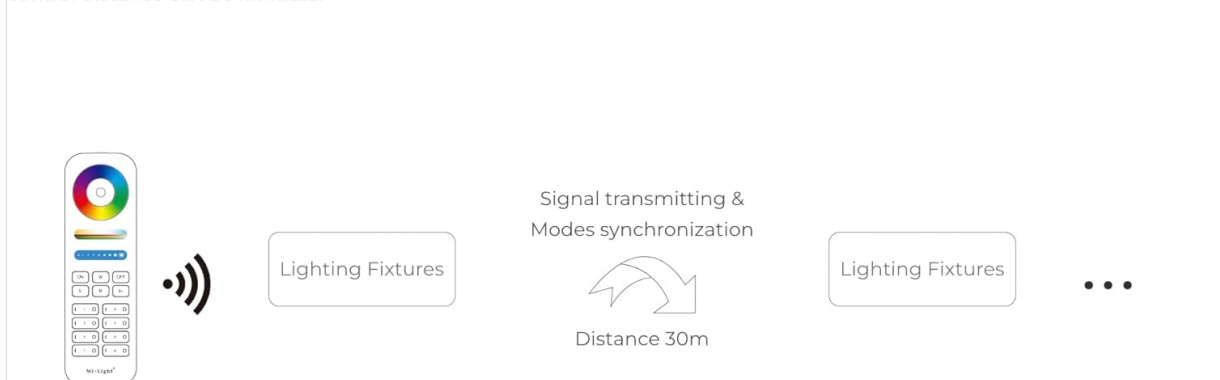


Image: Diagram explaining how the floodlights can transmit control signals to each other, extending the control range and enabling synchronized operation.

MAINTENANCE

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth to wipe the surface of the floodlight. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check the floodlight and its connection to the magnetic track for any signs of damage or loose connections.

- **Storage:** If storing the floodlight for an extended period, keep it in a cool, dry place away from direct sunlight.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	No power to the track; loose connection; faulty floodlight.	Check power supply to the track. Ensure the floodlight is securely seated on the magnetic track. Test with another floodlight if available.
Cannot control with Zigbee app.	Not paired with gateway; gateway offline; incorrect app settings.	Ensure the floodlight is paired with your Zigbee 3.0 gateway. Check if the gateway is online and functioning. Verify app settings.
Cannot control with 2.4GHz remote.	Not paired with remote; remote battery low; out of range.	Pair the floodlight with the remote as per instructions. Replace remote batteries. Ensure you are within the 25m control range.
Light flickers or behaves erratically.	Unstable power supply; loose connection; interference.	Check power connections. Ensure the floodlight is firmly attached to the track. Reduce potential wireless interference.

SPECIFICATIONS

Brand	MiBOXER
Model Name	MF5-12A-24A-ZL
Power	12W
Light Color	RGB+CCT (2700K-6500K)
Voltage	12 Volts
Material	Plastic
Product Dimensions	11.9"L x 0.9"W x 1.7"H
Light Source Type	LED
Zigbee Control Distance	50m (open area)
2.4G RF Remote Control Distance	25m
Compatibility	Zigbee 3.0 hubs (e.g., Tuya, SmartThings, Philips Hue - limited features), Mi-Light / MiBoxer 2.4GHz remotes



Image: Energy efficiency label for the MiBOXER MF5-12A-ZL floodlight. For more details, scan the QR code or visit eprel.ec.europa.eu/qr/1204456.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact MiBOXER customer service through their official website or your retailer.