

ChangM TD4C001

ChangM Smart Recessed Lighting 4 Inch RGBCW LED Downlight User Manual

Model: TD4C001

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ChangM Smart Recessed Lighting. This 4-inch RGBCW LED downlight features color-changing capabilities, dimming, and smart control via Bluetooth and Alexa. Please read this manual thoroughly before installation and use to ensure proper function and safety.

SAFETY INFORMATION

- Always turn off power at the circuit breaker before beginning installation or performing any maintenance.
- Consult a qualified electrician if you are unsure about any part of the installation process.
- Do not use with standard dimmer switches. This product is designed for app or voice-controlled dimming only.
- Ensure all electrical connections are secure and comply with local electrical codes.
- This product is for indoor use only.

PACKAGE CONTENTS

Verify that all components are present in the package:

- 1x Smart Recessed Lighting 4 Inch RGBCW Color Changing LED Downlight
- 1x Junction Box
- 1x User Manual

SPECIFICATIONS

Brand	ChangM
Model Name	TD4C001
Light Type	LED

Wattage	12 Watts
Brightness	1080 Lumens (RGB), 1100 Lumens (White)
Color Temperature	2700K-6000K (Adjustable White)
Light Color	Multicolor (RGBCW)
Voltage	100-120 Volts
Product Dimensions	4.7"W x 1.57"H
Ceiling Cutout	3.5-4.5 inches
Control Method	App (BRmesh), Voice (Alexa)
Connectivity	Bluetooth 5.0 Mesh Technology
Average Life	25,000 Hours
Material	Aluminum, Plastic

Setup and Installation

Follow these steps for safe and proper installation of your recessed lighting:

- Prepare the Ceiling:** Using the provided cutting template, cut a hole in the ceiling with a diameter between 3.5 to 4.5 inches. Ensure the installation depth is at least 1.57 inches.
- Connect Wiring:** Open the junction box. Connect the household electrical wires to the wires inside the junction box according to standard electrical practices (e.g., black to black, white to white, ground to ground). Secure connections with wire nuts.
- Connect Downlight to Junction Box:** Plug the connector cable from the downlight into the corresponding connector on the junction box.
- Insert into Ceiling:** Push the spring clips on the sides of the downlight upwards. Carefully insert the downlight into the prepared ceiling hole. The spring clips will secure the light in place.

Timer & Schedule Setting

Switch Your Lights On/Off Automatically to fit Your Life.



Figure 1: Installation Steps. This image illustrates the four key steps for installing the ChangM Smart Recessed Light, from preparing the ceiling to securing the fixture.

OPERATING INSTRUCTIONS

1. APP Control (BRmesh App)

The BRmesh app allows comprehensive control over your smart recessed lights without requiring an internet connection or registration.

1. **Download App:** Search for and download the "BRmesh" app from your mobile device's app store.
2. **Enable Bluetooth:** Turn on Bluetooth on your mobile phone.
3. **Connect Lights:** Open the BRmesh app. On the home page, click to add a device. The app will automatically detect and connect to your ChangM smart downlights.
4. **Control Features:** Once connected, you can control individual lights or groups, change colors, adjust brightness, set scenes, and more.

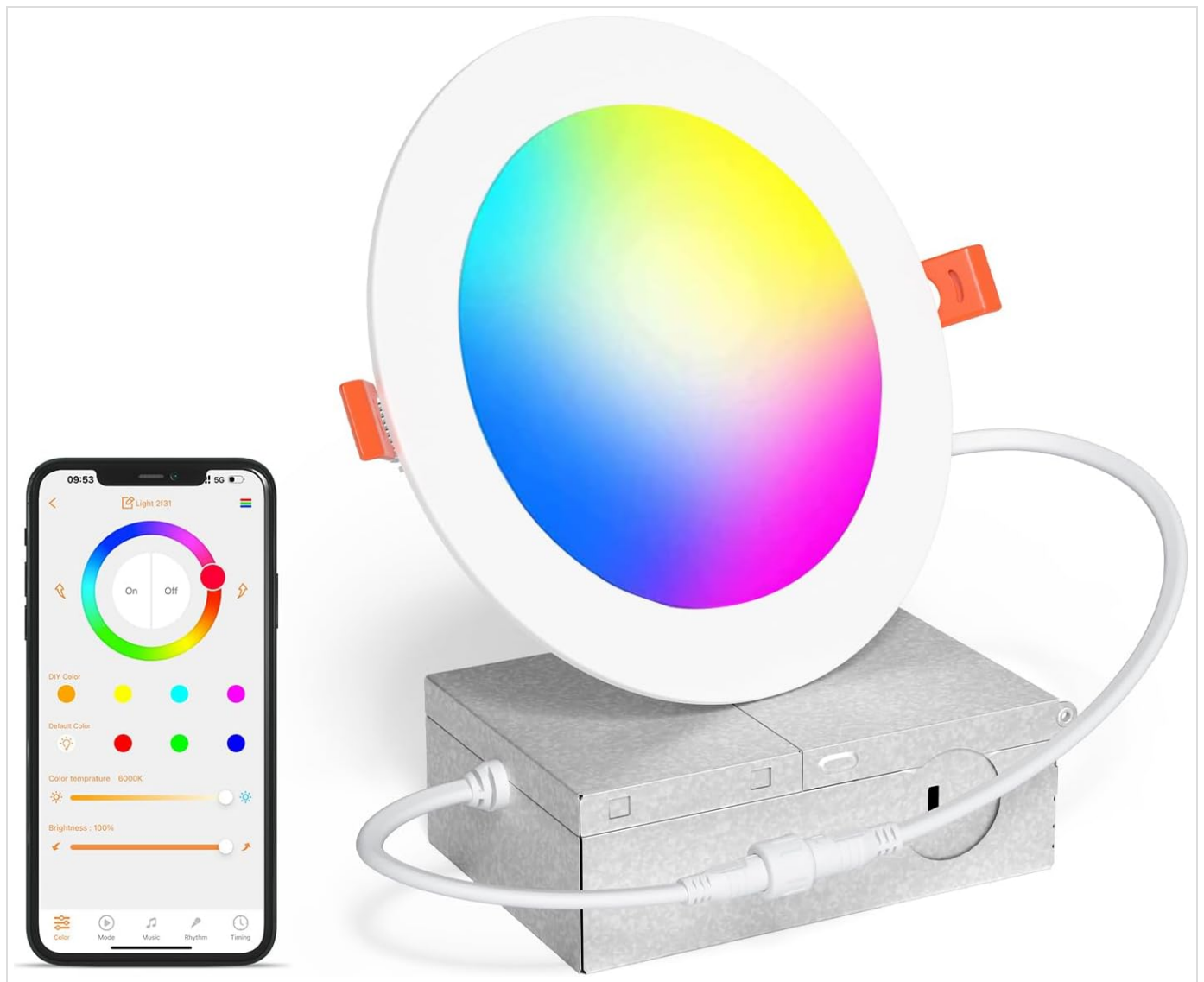


Figure 2: BRmesh App Interface. This image shows the smart recessed light and the BRmesh app, highlighting the color selection and control options available.

2. Smart Voice Control (Alexa)

Your ChangM smart lights are compatible with Alexa for convenient voice control.

1. **Enable Skill:** Ensure your Alexa device is set up and the relevant skill for smart lighting is enabled (if required by Alexa).
2. **Discover Devices:** Say "Alexa, find devices" to your Alexa-enabled speaker. The lights will be discovered and added to your Alexa app.
3. **Voice Commands:** You can now use voice commands to control your lights. Examples include:
 - "Alexa, turn on/off the [light name]."
 - "Alexa, set [light name] to blue."
 - "Alexa, dim [light name] to 50%."
 - "Alexa, set the scene to [scene name]."

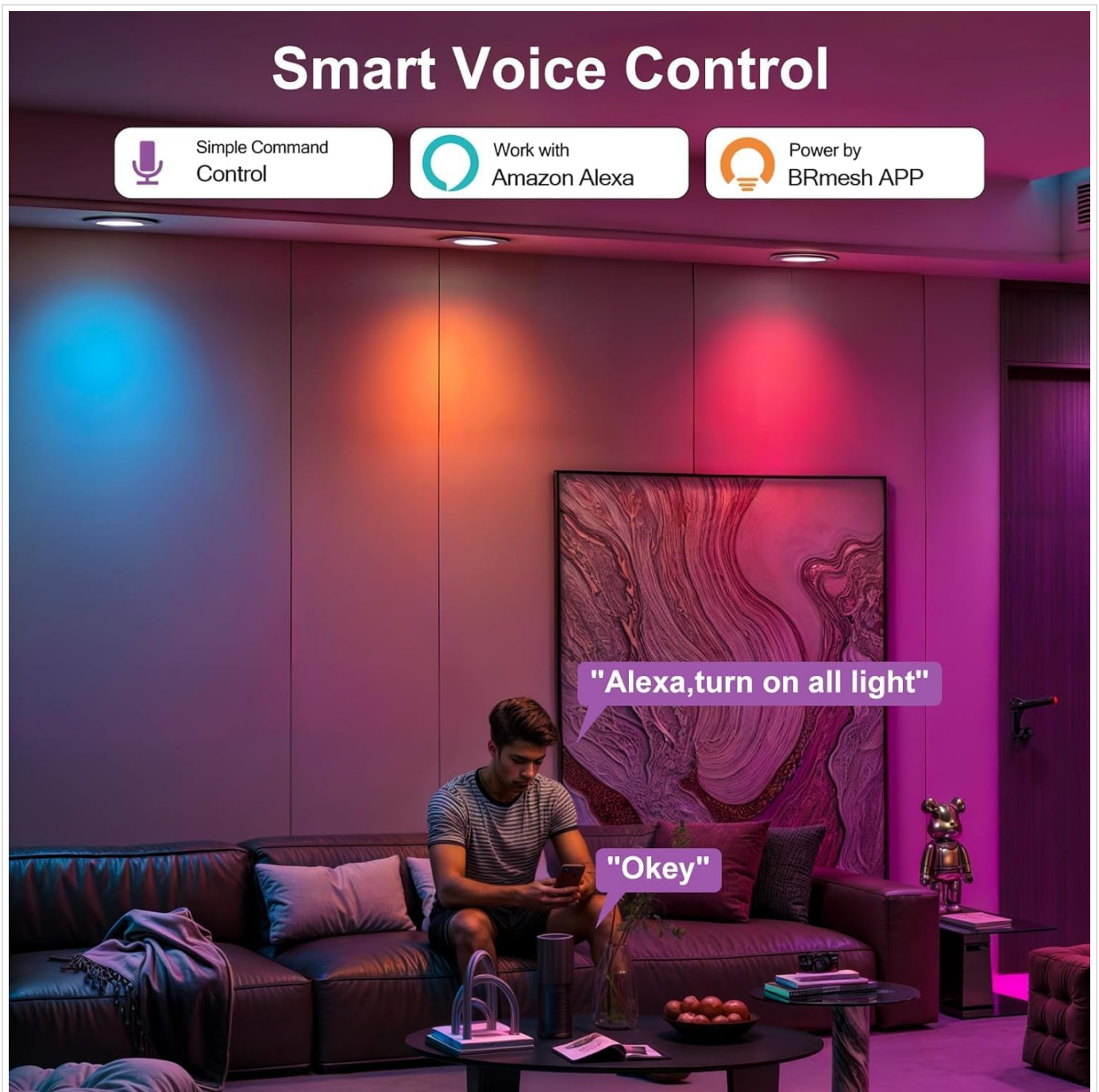


Figure 3: Voice Control with Alexa. This image demonstrates a user interacting with an Alexa device to change the lighting in a living room, showcasing the ease of voice control.

3. Bluetooth Mesh Technology

The lights utilize Bluetooth 5.0 Mesh technology for stable and efficient control of multiple downlights.

- **Stable Connection:** Bluetooth Mesh provides a stable connection that does not rely on Wi-Fi bandwidth, reducing disconnections.
- **Extended Range:** Devices can relay signals to each other, extending the control range beyond typical Bluetooth limits.
- **Multi-Lamp Control:** Control up to 125 recessed lights with a single application.

New Technology

Equipped with Bluetooth 5.0 chip, enabling mesh function.



Figure 4: Bluetooth Mesh vs. WiFi. This diagram illustrates the advantages of Bluetooth Mesh technology for connecting multiple lights over traditional WiFi connections, emphasizing stability and scalability.

4. Color Changing and Dimming

The RGBCW feature allows for a wide range of lighting options.

- **RGB Colors:** Access 16 million colors to create various moods and ambiances.
- **Tunable White:** Adjust white light color temperature from 2700K (warm white) to 6000K (cool white) for daily lighting needs.
- **Smooth Dimming:** Utilize the app or voice control for 1%-100% brightness adjustment without flicker. **Note:** Do not use with physical dimmer switches.

RGB+Warm to Cool white

Change the light Color via Alexa or BRmesh APP you want



Figure 5: RGBCW Color Options. This image demonstrates the extensive color and white light temperature options available with the ChangM smart recessed lights.



Figure 6: Smart Dimming. This image highlights the 1%-100% dimming capability controlled via app or voice, and explicitly warns against using physical dimmer switches.

5. DIY Scenes and Synchronization

Create and save custom lighting scenes for different activities or moods.

- **Custom Scenes:** Set specific colors, brightness levels, and modes for each light to match scenes like "Home Theater," "Bathroom," "Yoga," or "Game Room."
- **One-Key Activation:** Activate your saved scenes with a single tap in the app.
- **Dynamic Modes:** Choose from 23 different dynamic modes. When multiple lights are activated, their rhythm of color changes can be synchronized.

DIY Scenes | WORKS WITH BRmesh

Start it with one click when needed

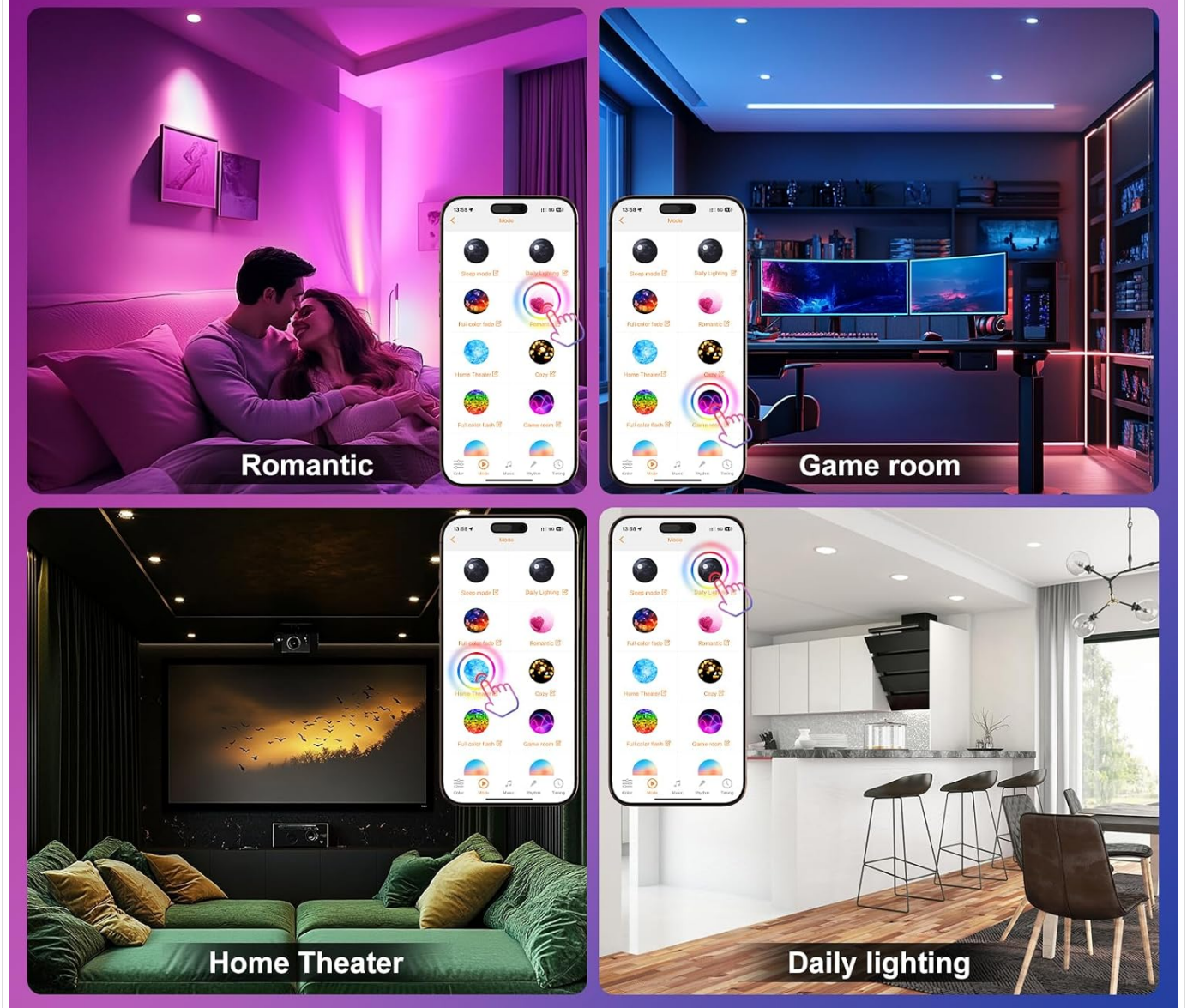


Figure 7: DIY Scenes. This image illustrates various customizable lighting scenes that can be created and activated through the BRmesh app for different environments.

6. Group Control

Manage multiple lights simultaneously by organizing them into groups.

1. **Create a Group:** In the BRmesh app, navigate to the group control section and click to create a new group.
2. **Name the Group:** Assign a descriptive name to your new group (e.g., "Bedroom," "Living Room").
3. **Add Downlights:** Select the individual downlights you wish to include in this group.
4. **Control Group:** Return to the main control interface. You can now control all lights within the group simultaneously.

Group control

Can be controlled at will according to the scene.



1. Click "+" to create a group.



2. Create a new group name through **Establish a new group**.



3. Add downlights to the group.



4. Return to the main control interface. Through **Multi Ctrl1**, one or more downlights in the group can be controlled at will.



5. If there is no need for separate control. It can be opened with one key through the main interface **"Group Ctrl1"**.

Figure 8: Group Control Setup. This image visually explains how to organize and control multiple recessed lights by creating and managing groups within the BRmesh app.

7. Timer and Schedule Setting

Automate your lighting to fit your daily routine.

- **Set Schedules:** Use the BRmesh app to set specific times for your lights to turn on or off automatically.
- **Daily Routines:** Program lights to wake you up in the morning or turn off when you typically go to sleep.



Figure 9: Timer and Schedule Settings. This image illustrates how to set automated schedules for your lights using the BRmesh app, enhancing convenience and energy efficiency.

MAINTENANCE

To ensure the longevity and optimal performance of your ChangM Smart Recessed Lighting, follow these simple maintenance guidelines:

- **Cleaning:** Ensure the power is off before cleaning. Use a soft, dry cloth to wipe the surface of the light. Do not use abrasive cleaners or solvents, as they may damage the finish.
- **Inspection:** Periodically check for any loose connections or visible damage. If any issues are found, consult a qualified electrician.
- **No User-Serviceable Parts:** The LED module is integrated and not designed for user replacement. Do not attempt to disassemble the light fixture.

TROUBLESHOOTING

If you encounter issues with your smart recessed lighting, refer to the following common solutions:

Problem	Possible Cause	Solution
Light does not turn on.	No power, loose connection, or light failure.	Check circuit breaker. Ensure all wiring connections are secure. If problem persists, contact support.
Cannot connect to BRmesh app.	Bluetooth off, light not in pairing mode, or app issue.	Ensure Bluetooth is enabled on your phone. Restart the app and try again. Power cycle the light (turn off/on at switch).
Alexa cannot discover lights.	Alexa skill not enabled, lights not connected to app, or network issue.	Ensure lights are connected to the BRmesh app first. Say "Alexa, find devices." Check your Alexa app for any skill requirements.
Lights flicker or behave erratically.	Incompatible dimmer switch, unstable power, or software glitch.	Ensure no physical dimmer switch is used. Power cycle the light. Update BRmesh app if available.

WARRANTY AND SUPPORT

For warranty information or technical support, please contact the manufacturer, ChangM, directly. Refer to the product packaging or the official ChangM website for contact details.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question