BTF-LIGHTING RC03RFB

BTF-LIGHTING RC03RFB RF Remote Control User Manual

Model: RC03RFB | Brand: BTF-LIGHTING

1. Introduction

The BTF-LIGHTING RC03RFB is a 2.4GHz RF wireless remote control designed for managing RGB, RGBW, and RGBCCT LED strips. This remote offers 4-zone group control, allowing for independent management of multiple lighting areas. It is compatible with various BTF-LIGHTING controllers, providing flexible and convenient control over your LED lighting systems.



Image 1: BTF-LIGHTING RC03RFB RF Remote Control.

2. Safety Information

- Ensure the power supply to the LED controller is disconnected before any installation or linking procedures.
- This remote control operates on 3V DC (battery powered). Do not attempt to connect it directly to AC power.
- Keep the device away from water, moisture, and high temperatures.
- Do not attempt to disassemble or repair the remote control yourself. Refer to qualified personnel for service.
- Dispose of batteries according to local regulations.

3. Package Contents

The package for the RC03RFB remote control typically includes:

- 1x RC03RFB Remote Control
- 1x RF Remote Bracket

- 2x Screws for bracket installation
- 1x Double-sided Adhesive for bracket installation
- 1x User Manual (this document)

Note: This product does not contain 3A batteries, which are required for operation.

4. Product Overview

The RC03RFB remote features a user-friendly design with a touch color ring and various buttons for comprehensive control over your LED strips. Below is a diagram illustrating the remote's layout and button functions.



Image 2: RC03RFB Remote Control with labeled buttons and dimensions.

Button Functions:

- **Master ON:** Press to turn on all linked devices.
- **Master OFF:** Press to turn off all linked devices.
- **Color Ring:** Touch to change colors.
- **7 Colors Switching:** Short press to cycle through 7 pure colors (orange, yellow, green, cyan, blue, purple, red). Long press to gradually switch through these colors.
- **Brightness +** / **-:** Adjusts the brightness level.
- **Dynamic Modes (M):** Cycles through various dynamic lighting modes.
- **Color Temp/Saturation:** Adjusts color temperature or saturation depending on the LED strip type.
- **White Light (W):** Press to activate pure white light. For RGBCCT strips, this button also allows color temperature adjustment. For RGBW, it controls the white channel. For RGB, it does not function for color temperature adjustment.

- **Speed + / -:** Adjusts the speed of dynamic modes.
- **Zone ON/(un)link (1-4):** Press to turn on a specific zone or to initiate the linking/unlinking process.
- **Zone OFF/Night Light Mode (1-4):** Press to turn off a specific zone or activate night light mode for that zone.

5. Setup

5.1 Battery Installation

The RC03RFB remote requires 2x AAA batteries (not included). Open the battery compartment on the back of the remote and insert the batteries, ensuring correct polarity.

5.2 Linking Instructions

To link the RC03RFB remote control with your LED controller, follow these steps:

1. **Disconnect and Reconnect Power:** Disconnect the LED controller from its power supply for 10 seconds, then reconnect it.
2. **Initiate Linking:** Within 3 seconds of reconnecting power, short press the desired "Zone ON/(un)link" button (1, 2, 3, or 4) on the remote 3 times.
3. **Confirmation:** The LED strip will blink 3 times slowly, indicating successful linking.



Image 3: Visual guide for linking the RC03RFB remote to an LED controller.

Important: If linking fails (LED strip does not blink slowly), repeat the steps above. A light that has already been linked cannot be linked again to the same zone.

5.3 Mounting the Remote Bracket

You can mount the included remote bracket using the provided screws or double-sided adhesive. Choose a convenient location for easy access to your remote.

6. Operating Instructions

6.1 Basic Control

- **Power ON/OFF:** Use the "Master ON" and "Master OFF" buttons to control all linked devices. For individual zones, use the respective "Zone ON/(un)link" and "Zone OFF/Night Light Mode" buttons.
- **Color Selection:** Touch the "Color Ring" to select from 16 million colors. Alternatively, use the "7 Colors Switching" button for quick access to predefined pure colors.
- **Brightness Adjustment:** Use the "Brightness +" and "Brightness -" buttons to increase or decrease the light intensity.

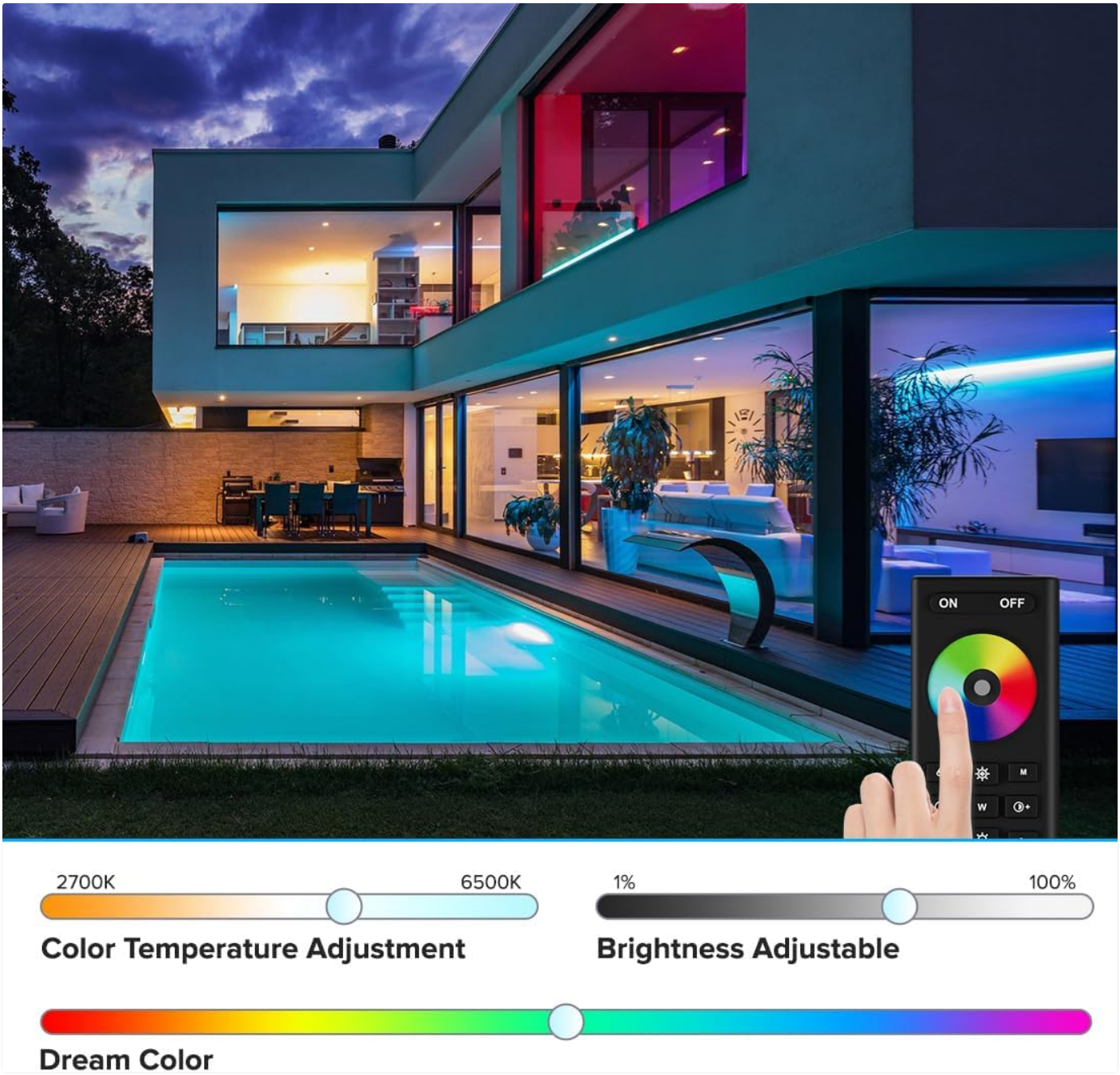


Image 4: Illustration of color temperature and brightness adjustment capabilities.

6.2 Advanced Control

- **Dynamic Modes:** Press the "M" button to cycle through various pre-programmed dynamic lighting effects. Use "Speed +" and "Speed -" to adjust the speed of these effects.
- **White Light Control:** Press the "W" button for pure white light. For RGBCCT LED strips, after pressing "W", you can use the "Color Temp/Saturation" buttons to adjust the white light's color temperature. For RGBW strips, the "W" button controls the dedicated white channel.
- **Color Temperature/Saturation:** For compatible LED strips (e.g., RGBCCT), use the "Color Temp/Saturation" buttons to fine-tune the color temperature or saturation of the selected color.

6.3 Group Control (4 Zones)

The RC03RFB remote supports 4-zone group control, allowing you to manage multiple LED controllers independently or simultaneously. Each remote can match and control one or more controllers. As long as the distance between controllers is within 98 feet (30 meters) in an open environment, you can control them in different areas.



Image 5: Diagram illustrating 2.4GHz wireless transmission for 4-zone control within a home environment.

To control a specific zone, first press the corresponding "Zone ON/(un)link" button (1-4) to select it. Then, use the other control buttons (color ring, brightness, modes) to adjust the lights in that zone. To control multiple zones simultaneously, ensure all desired zones are turned on, then use the master controls or select each zone individually.

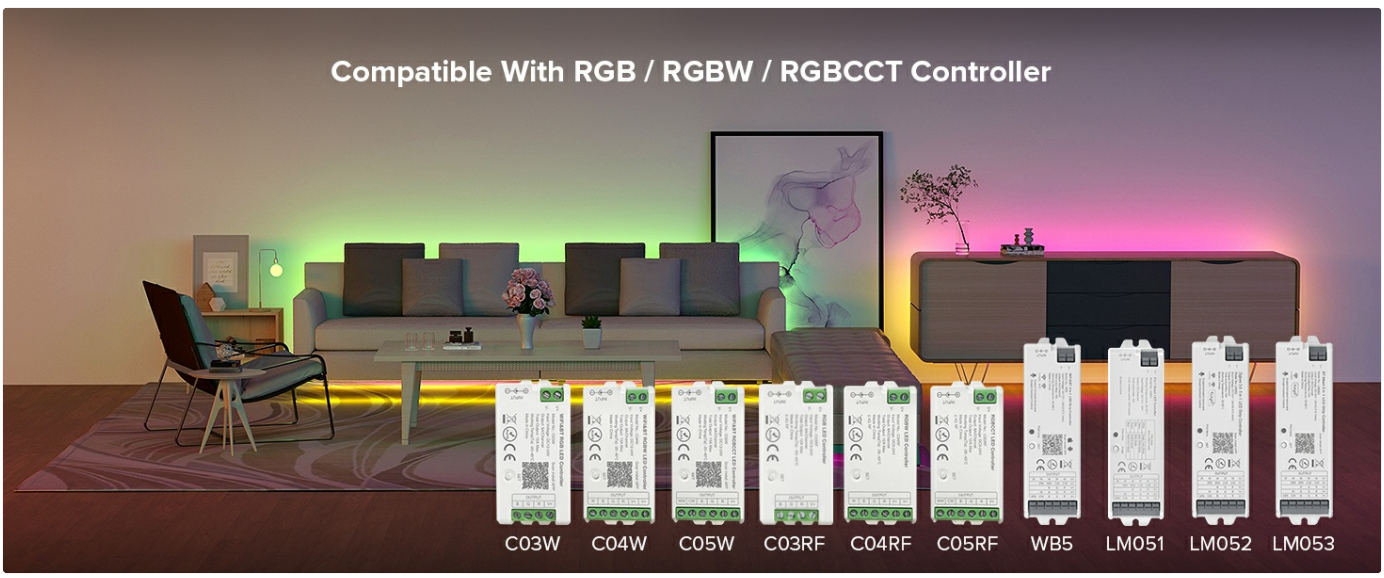


Image 6: Examples of group setting and control, showing how multiple controllers can be assigned to a single zone.

7. Maintenance

- **Cleaning:** Wipe the remote control with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** When the remote's response becomes sluggish or the pilot lamp dims, replace the AAA batteries. Ensure correct polarity during installation.
- **Storage:** Store the remote in a cool, dry place when not in use for extended periods. Remove batteries if storing for several months to prevent leakage.

8. Troubleshooting

Problem	Possible Cause	Solution
Remote not responding	Dead or incorrectly installed batteries.	Replace batteries, ensuring correct polarity.
LED strip not responding to remote	Remote not linked to controller, or incorrect zone selected.	Perform the linking procedure (Section 5.2). Ensure the correct zone button (1-4) is pressed before sending commands.
Intermittent control	Interference or remote too far from controller.	Reduce distance between remote and controller. Ensure no major obstructions.
Color/Brightness adjustment not working as expected	Incompatible LED strip type for certain functions (e.g., RGB strip for CCT adjustment).	Ensure your LED strip type (RGB, RGBW, RGBCCT) supports the desired function. Refer to your LED strip's specifications.

9. Specifications

Feature	Detail
Model Number	RC03RFB
Brand	BTF-LIGHTING
Wireless Technology	2.4GHz RF
Control Zones	4 Zones
Compatible LED Strips	RGB (4-wire), RGBW (5-wire), RGBCCT (6-wire)
Compatible Controllers	BTF-LIGHTING C03RF, C04RF, C05RF, C03W, C04W, C05W, WB5, LM052, LM053, LM051, DR03W, DR04W, etc.
Control Range	Up to 98 feet (30 meters) in open environment
Power Source	2x AAA Batteries (not included)
Operating Voltage	3 Volts (DC)

Feature	Detail
Dimensions	5.91 x 0.79 x 1.97 inches (150 x 20 x 50 mm)
Weight	2.89 ounces (approx. 82g)
Material	Plastic
Special Features	2.4GHz Wireless, Auto-transmitting function, Group Control, RGB/RGBW/RGBCCT compatibility

10. Warranty and Support

BTF-LIGHTING products are designed for reliability and performance. For warranty information, please refer to the specific terms provided at the point of purchase or contact BTF-LIGHTING customer support directly. If you encounter any issues or have questions regarding the RC03RFB remote control, please reach out to our customer service team for assistance.

For further support, visit the official BTF-LIGHTING store on Amazon: BTF-LIGHTING Store

Ask a question about this manual

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