BTF-LIGHTING WR02RF

BTF-LIGHTING WR02RF Wireless 2.4G RF 4 Zone Single Color Wall Mounted Smart Panel Remote Instruction Manual

Model: WR02RF

1. INTRODUCTION

Thank you for choosing the BTF-LIGHTING WR02RF Wireless 2.4G RF 4 Zone Single Color Wall Mounted Smart Panel Remote. This device is designed to provide convenient and flexible control over your single color LED strip lights. It features 2.4GHz RF wireless transmission, allowing for a control distance of up to 30 meters (98 feet), and supports up to 4 zones of control. The remote is powered by 2 AAA batteries (not included) and can be easily mounted on a wall using its magnetic holder. This manual will guide you through the setup, operation, and maintenance of your new smart panel remote.

2. PRODUCT OVERVIEW

The WR02RF smart panel remote offers intuitive touch control for brightness and color temperature adjustment. It is compatible with various BTF-LIGHTING single color controllers such as C01RF, C02RF, C01W, C02W, WB5, LM052, and LM053, which control FCOB, COB, 5630, 5050, 3014, 5730, 3528, and other monochrome 2-wire (V+ V-) PWM LED strips.

2.4GHz Wireless Transmission 4 Zone Control

Simultaneous control of multiple controllers

Figure 1: Overview of the WR02RF Smart Panel Remote, highlighting its touch interface for mode, speed, 60S delay off, CCT adjustment, brightness dimming, and 4-zone control buttons.
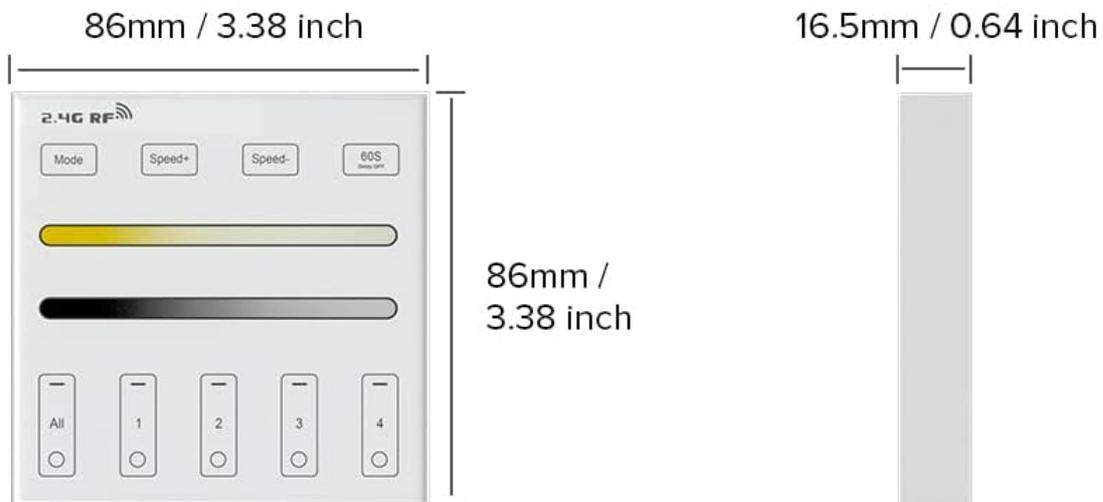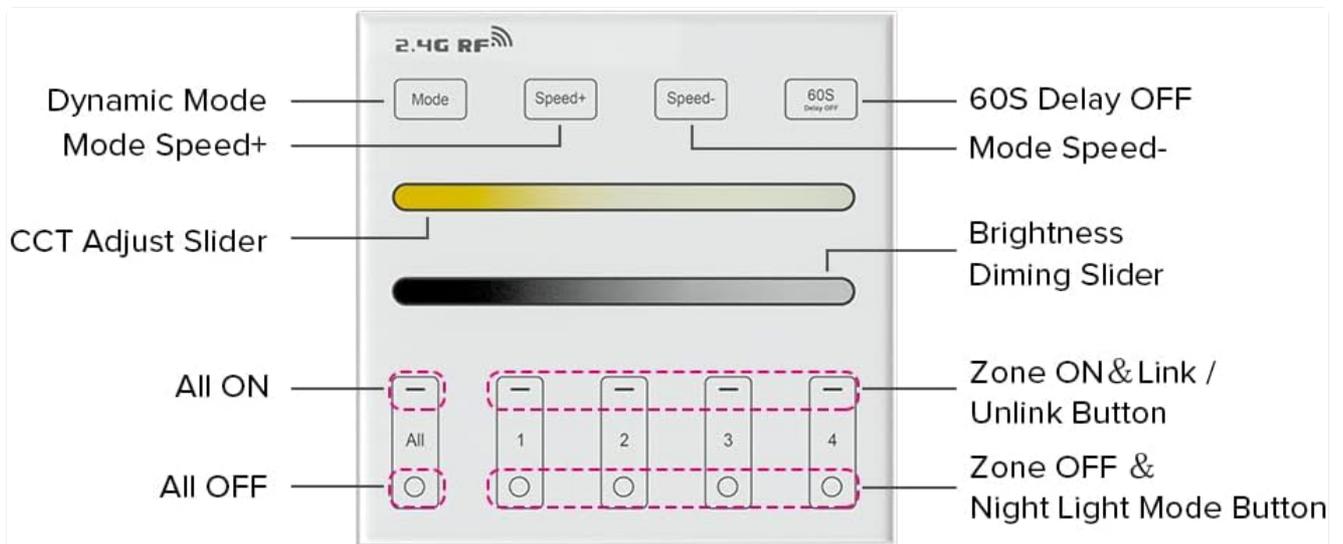
2.4G RF

Dynamic Mode — Mode   Speed+   Speed-   60S Delay OFF — 60S Delay OFF
Mode Speed+ ————————————————————————— Mode Speed-

CCT Adjust Slider ————————— Brightness Diming Slider

All ON ———— All   1   2   3   4 — Zone ON & Link / Unlink Button

All OFF ———— ○ ○ ○ ○ ○ — Zone OFF & Night Light Mode Button

86mm / 3.38 inch

16.5mm / 0.64 inch

86mm / 3.38 inch

Figure 2: Dimensions of the WR02RF Smart Panel Remote, showing its compact size of 86mm x 86mm x 16.5mm (3.38 x 3.38 x 0.64 inches).

3. SETUP

3.1 Battery Installation

1. Gently remove the back cover of the remote panel.

2. Insert two AAA batteries into the battery compartment, ensuring correct polarity (+/-). Batteries are not included.

3. Replace the back cover.

Figure 3: Illustration of battery installation (2xAAA) and the magnetic holder mechanism for wall mounting.

3.2 Mounting the Remote

The WR02RF remote features a magnetic holder for easy installation. You can either attach it to any metallic surface or use the provided magnetic base to mount it on a wall. No wiring is required for the remote itself, offering flexible placement.

3.3 Pairing with LED Controllers (Linking Instructions)

To control your LED strips, the remote panel must be linked to a compatible LED controller (e.g., C01RF, C02RF, C01W, C02W, WB5, LM052, LM053). Follow these steps:

1. Switch off the power to the LED light strip and its controller.
2. Switch the power back on after 10 seconds.
3. When the light is on, short-press any zone button ('1', '2', '3', or '4') on the WR02RF remote **three times** within 3 seconds.
4. The LED light strip will blink slowly 3 times, indicating successful linking.

Your browser does not support the video tag.

Video 1: This video demonstrates the process of pairing LED strips with the WR01RF/WR02RF LED panels, showing the steps for linking the remote to a controller.

3.4 Unpairing from LED Controllers (Unlinking Instructions)

To unlink the remote from a controller, follow these steps:

1. Switch off the power to the LED light strip and its controller.
2. Switch the power back on after 10 seconds.
3. When the light is on, short-press the same zone button ('1', '2', '3', or '4') on the WR02RF remote **five times** within 3 seconds.
4. The LED light strip will blink quickly 10 times, indicating successful unlinking.

3.5 App Setup (Tuya Smart Life)

For advanced control features, you can connect your compatible LED controller (not the remote panel itself) to the Tuya Smart Life app. This allows for Wi-Fi and Bluetooth control, voice control via Amazon Alexa or Google Assistant, and scheduling.

1. Download the Tuya Smart Life app from your smartphone's app store.
2. Register or log in to your account.
3. Ensure your LED controller is powered on and in pairing mode (refer to your specific controller's manual for pairing mode instructions, often indicated by a blinking light).
4. In the app, tap '+' to add a device. The app should automatically discover the controller.
5. Follow the on-screen prompts to connect the controller to your 2.4GHz Wi-Fi network and complete the pairing process.

4. OPERATION

4.1 Basic Controls (Remote Panel)

- **Zone ON/OFF:** Press the individual zone buttons (1-4) to turn specific zones on or off.
- **All ON/OFF:** Press the 'All' button to control all linked zones simultaneously.
- **Brightness Dimming:** Use the brightness slider to adjust the light intensity from 1% to 100%.
- **Color Temperature Adjustment:** Use the CCT adjust slider to change the color temperature (e.g., from warm white 2700K to cool white 6500K).
- **Mode:** Cycles through various dynamic lighting modes.
- **Speed+/-:** Adjusts the speed of dynamic lighting modes.
- **60S Delay OFF:** Activates a 60-second delay before turning off the lights.

Brightness adjustable
Color temperature adjustable

Brightness adjustable,Adjust the color temperature from 2700K~6500K

Dimming   Increase Brightness

Warm white   Cool white

2700K   6500K

Figure 4: Demonstrates the brightness and color temperature adjustment capabilities of the remote, showing transitions from dim to bright and warm white to cool white.

4.2 Advanced Controls (App & Voice)

Once your LED controller is connected to the Tuya Smart Life app, you can access additional features:

- **Remote Control:** Control your lights from anywhere using your smartphone.
- **Voice Control:** Integrate with Amazon Alexa or Google Assistant for hands-free control.
- **Scheduling:** Set timers and schedules for your lights to turn on/off or change modes automatically.
- **Dynamic Modes & Scenes:** Choose from a variety of preset scenes or create custom lighting effects.

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Video 2: This video showcases the WR02RF B1 Wireless 2.4G RF 4 Zones Single Color Wall Panel in action, demonstrating its various control functions.

4.3 Auto Transmitting & Synchronization

The system supports auto transmitting and auto synchronization for dynamic modes. This means that if multiple lamps are within 30 meters of each other, the remote control signal can be transmitted from one lamp to the next, extending the effective control distance. Lamps in the same dynamic mode will synchronize automatically.

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Video 3: This video explains the Auto Synchronization Function, illustrating how multiple lights can be controlled and synchronized from a single remote.

5. Maintenance

- **Cleaning:** Wipe the tempered glass panel with a soft, dry cloth. Avoid using abrasive cleaners or solvents that may damage the surface.
- **Battery Replacement:** Replace the AAA batteries when the remote's response becomes sluggish or stops working. Always use fresh batteries and dispose of old ones responsibly.
- **Storage:** If storing the remote for an extended period, remove the batteries to prevent leakage.

6. Troubleshooting

Problem	Possible Cause	Solution
Remote not responding	Dead batteries; Remote not linked; Out of range	Replace batteries; Perform linking procedure (Section 3.3); Move closer to the LED controller.
Lights not synchronizing	Lamps too far apart; Not in same dynamic mode	Ensure lamps are within 30m of each other; Select the same dynamic mode for all lamps.
App control not working	Controller not paired with app; Wi-Fi issue; Incorrect network (not 2.4GHz)	Ensure LED controller is paired with Tuya Smart Life app (Section 3.5); Check Wi-Fi connection; Verify router is on 2.4GHz band.
Lights flicker or behave erratically	Loose connections; Power supply issue; Interference	Check all wiring connections to the LED controller; Ensure power supply meets LED strip requirements; Reduce RF interference sources.

7. Specifications

- **Model Number:** WR02RF
- **Brand:** BTF-LIGHTING
- **Display Type:** Touchscreen
- **Operating Temperature:** 40 Degrees Celsius (Note: This is likely a maximum operating temperature, typical range is broader)
- **Product Dimensions:** 3.54 x 3.54 x 0.79 inches (9 x 9 x 2 cm)
- **Item Weight:** 1.4 ounces
- **Power Source:** 2xAAA Batteries (3V)
- **Batteries Included?:** No
- **Batteries Required?:** Yes
- **Switch Style:** Touch Switch
- **Switch Installation Type:** Wall Mount (Magnetic holder)
- **Specific Uses:** Indoor use only
- **Material:** Glass (Panel)
- **Special Features:** 2.4G RF Wireless, 4 Zone Control, Dimming (1-100%), CCT Adjustment, 60S Delay OFF, Magnetic Holder

8. WARRANTY AND SUPPORT

This product is manufactured by BTF-LIGHTING Technology Co., Limited. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official BTF-LIGHTING website. Keep your purchase receipt as proof of purchase for any warranty claims.