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EMITEVER EMITEVER-RF-Dimmer

EMITEVER 14-Key RF Wireless Remote Dimmer User Manual

Model: EMITEVER-RF-Dimmer

1. Introduction

Thank you for choosing the EMITEVER 14-Key RF Wireless Remote Dimmer. This device is designed to provide seamless brightness control and timer functions for single color LED strip lights operating within a DC 5-24V range. Please read this manual carefully before installation and use to ensure proper operation and longevity of your product.



Image 1: EMITEVER RF Wireless Remote Dimmer and Controller

This image displays the compact white RF controller unit with three buttons and the 14-key white remote control, illustrating the main components of the dimmer system.

2. Safety Information

- Ensure the input voltage (DC 5-24V) matches your LED strip and power supply specifications.

- Do not exceed the maximum current rating of 6A.
- Disconnect power before making any connections to prevent electrical shock.
- This product is designed for indoor use only unless otherwise specified for the connected LED strips.
- Keep the device away from water, moisture, and high temperatures.

3. Package Contents

- 1 x RF Wireless Remote Control
- 1 x RF Controller Receiver

4. Specifications

Parameter	Value
Input Voltage	DC 5-24V
Output Voltage	DC 5-24V
Max Current	6A
RF Frequency	433.92Mhz
Net Weight	45g
Controller Size (LWH)	2.52 x 1.22 x 0.59 inches
Remote Size (LWH)	3.39 x 1.56 x 0.3 inches
Compatible Bulb Type	LED (Single Color, Common Anode Constant Voltage)
Connectivity Technology	Radio Frequency
Button Quantity	14 (on remote)

5. Setup and Installation

Follow these steps to correctly connect your EMITEVER RF Wireless Remote Dimmer:

1. Ensure all power is disconnected from your LED lighting system.
2. Connect the output of your DC 5-24V power adapter (driver) to the **INPUT** side of the RF controller.
3. Connect the **OUTPUT** side of the RF controller to your single color LED strip light. Ensure polarity is correct (+ to + and - to -).
4. Plug your power adapter into an AC power outlet.

Image 2: Connection Method

This diagram illustrates the wiring sequence: AC Power connects to a Class 2 Low Voltage Plug-In Adapter (Driver), which then connects to the INPUT of the controller. The OUTPUT of the controller connects to the LED strip.

6. Operating Instructions

The EMITEVER RF Wireless Remote Dimmer can be operated using either the 14-key remote control or the buttons on the controller unit.

6.1 Remote Control Functions

Before first use, remember to pull out the plastic insulation tab from the battery compartment of the remote control.

- **ON/OFF:** Press the **ON** button to turn lights on, and **OFF** button to turn lights off.
- **Brightness + / -:** Press **Brightness +** to increase brightness, and **Brightness -** to decrease brightness.
- **Preset Brightness:** Select **25%**, **50%**, **75%**, or **100%** for quick brightness adjustments.
- **Timer Functions:** Press **10min**, **30min**, **1h**, **2h**, or **4h** to set the LED strip to automatically turn off after the selected duration.
- **Cancel Timer:** Press the **C** button to cancel any active timer setting.

6.2 Controller Unit Functions

- **ON/FF (On/Off):** Short press the top button to toggle power.
- **Brightness Presets:** Short press the middle button to cycle through 25%, 50%, 75%, and 100% brightness levels.
- **Brightness +/-:** Long press the bottom button to smoothly adjust brightness up or down.

Image 3: Instructions for Use

This image details the functions of each button on both the 14-key remote control and the 3-button controller unit, including power, brightness adjustment, preset levels, and timer settings.

6.3 Stepless Dimming

For fine-tuned brightness control, long-press the brightness adjustment buttons on either the remote or the controller. This allows for smooth, stepless dimming from 0% to 100% and vice versa.

Image 4: Stepless Dimming

This visual demonstrates the smooth transition of light intensity from dim to bright, controlled by long-pressing the brightness buttons on both the remote and the controller.

6.4 Timer Functions

The remote control offers five convenient timer settings to automatically turn off your LED lights:

- 10 minutes
- 30 minutes
- 1 hour
- 2 hours
- 4 hours

The controller will retain your timing settings even after being turned off and on again, providing consistent convenience.

Image 5: 5 Timer Functions

This image highlights the five available timer settings (10min, 30min, 1h, 2h, 4h) on the remote control, allowing users to schedule automatic light shut-off.

7. Features

- **RF Dimming:** Enjoy 0-100% smooth and flicker-free dimming, offering precise control over light strip brightness. Compatible with all common anode constant voltage LED products.
- **Timer Function:** Features five convenient time modes (10min/30min/1h/2h/4h). The controller remembers your last timing setting for ease of use.
- **Unrestricted Use:** The RF controller allows you to adjust LED products from a distance and in any direction, without needing direct line-of-sight.
- **Unique Design:** Utilizes advanced PWM technology for compact size, convenient wiring, simple operation, and comfortable button feel.
- **Widely Compatible:** Works with EMITEVER SMD/COB light strips and other DC 5-24V LED products, supporting a maximum current of 6A.

8. Maintenance

- **Cleaning:** Gently wipe the controller and remote with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Remote Battery:** If the remote control's range decreases or it becomes unresponsive, replace the battery (typically a CR2025 or CR2032 coin cell, check remote for specific type).
- **Storage:** Store the device in a cool, dry place when not in use for extended periods.

9. Troubleshooting

- **LED Strip Not Turning On:**
  - Check all connections (power supply to controller, controller to LED strip) for secure fit and correct polarity.
  - Verify the power supply is working and providing the correct voltage (DC 5-24V).
  - Ensure the remote control has a working battery and the plastic tab has been removed.
- **Dimming Not Working or Inconsistent:**
  - Confirm your LED strip is a single color, common anode, constant voltage type.
  - Check the remote control battery.
  - Ensure the total wattage of your LED strip does not exceed the controller's maximum current (6A).
- **Remote Not Responding:**
  - Replace the remote control battery.
  - Ensure there are no strong RF interferences nearby.

10. Warranty and Support

This EMITEVER product comes with a**1-year warranty** from the date of purchase. If you encounter any issues or have questions regarding your product, please contact EMITEVER customer service through the retailer where you purchased the item or visit the official EMITEVER website for support.

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