Vrabocry 4pin 12v rgb

Vrabocry DC12V RGB Controller with RF17 Remote User Manual

Model: 4pin 12v rgb

1. Introduction

This manual provides detailed instructions for the Vrabocry DC12V RGB Controller with RF17 Button Remote. This device is designed to control ARGB 5050 LED strip lighting, primarily for PC computer case illumination, offering various lighting modes and color options. The compact design and wireless RF remote ensure ease of use and installation.

Image 1.1: The Vrabocry DC12V RGB Controller and its RF17 wireless remote control.

2. Package Contents

Please verify that all items are present in your package:

- 1 x 17-key 4-pin RF Remote Control
- 1 x DC12V RGB Controller (4-pin interface)

Note: The RF remote control requires a CR2025 battery, which is not included in the package. Please purchase separately if needed.

Image 2.1: The RGB LED controller, RF wireless remote, and included instruction sheet.

3. Specifications

Feature	Detail
Input Voltage	DC 12V
Output Current	Peak 3x4A
Contact Paths	Common Anode
Working Temperature	-20°C to 60°C (-4°F to 140°F)
Controller Type	RF Remote Control
Connectivity	Radio Frequency (RF)

Feature	Detail
Remote Distance	8-25 meters (can pass through barriers)
Interface	4-Pin (compatible with computer motherboard plug: +12V, DA, GND)
Power Input Terminal	4-pin universal (SATA power adapter included)
Material	Polycarbonate
Water Resistance Level	Not Water Resistant
Item Weight	1.12 ounces (approx. 31.75 grams)
Package Dimensions	5.32 x 3.74 x 0.52 inches

4. Setup and Installation

Follow these steps to properly install your RGB LED strip and controller:

1. **Prepare the Surface:** Before attaching the LED strip light, ensure the surface inside your computer case is clean and free of dust. Use a clean cloth to wipe down the area where the strip will be placed.
2. **Prepare the LED Strip:** If your LED strip uses 3M adhesive tape, gently heat the tape before sticking it. This can improve adhesion and make the bond more stable.
3. **Secure the LED Strip:** Carefully press the LED strip onto the cleaned surface. For additional stability, you may use extra adhesive or small magnets if your case supports them.
4. **Connect the LED Strip to Controller:** Connect the 4-pin connector of your LED strip to the corresponding 4-pin output on the RGB controller. Ensure the pins are aligned correctly.
5. **Connect Controller to Power:** Connect the controller's input cable to a DC 12V power source. The controller comes with a SATA power adapter for easy connection to your PC's power supply unit (PSU). Ensure the connection is secure and provides stable 12V power.

Image 4.1: Visual guide for installing the LED strip light and connecting the controller to a PC power supply.

5. Operating Instructions

The RF17 remote control allows for intuitive operation of your RGB LED lighting. Ensure a CR2025 battery is installed in the remote before use.

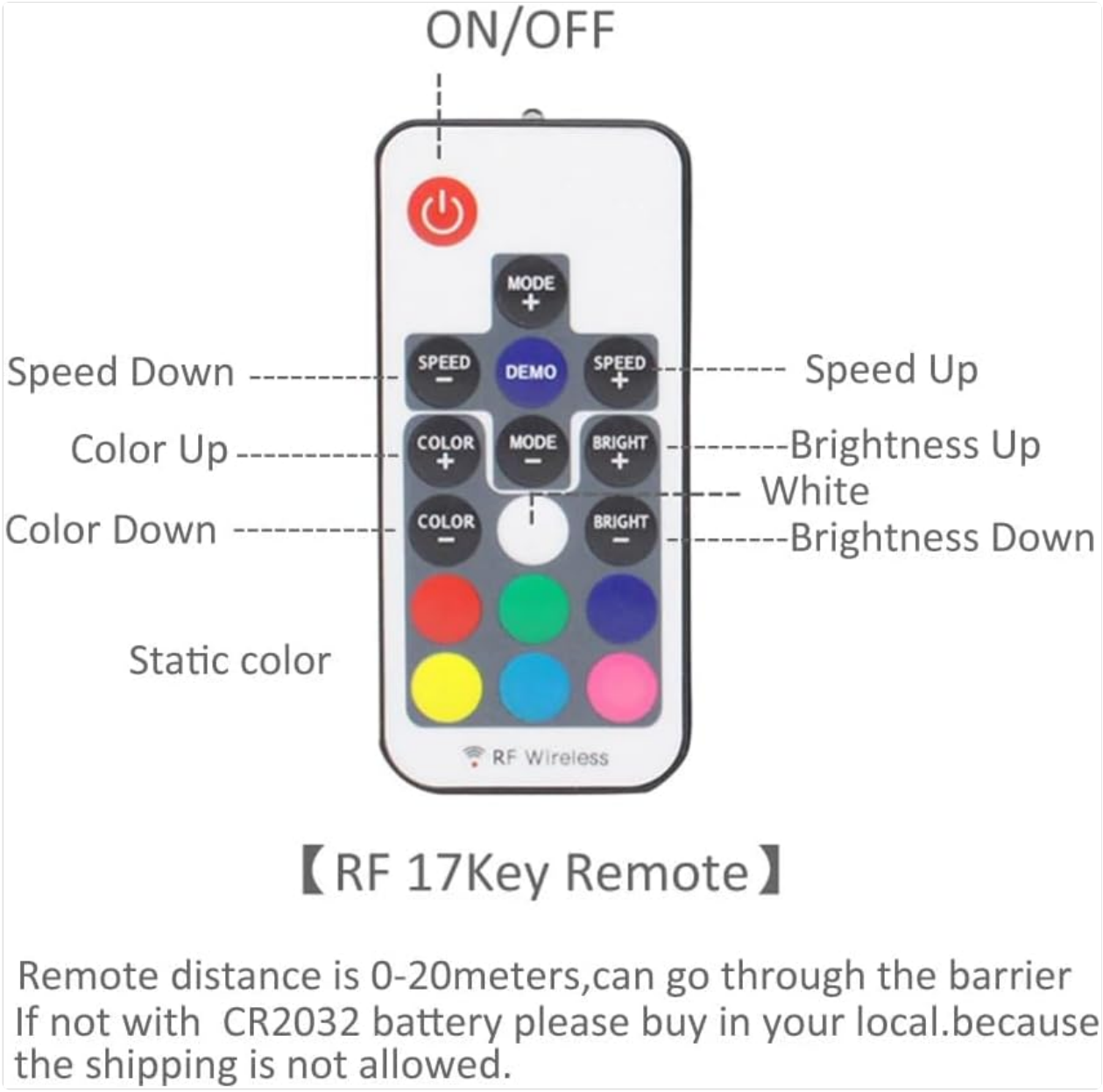

Image 5.1: Diagram illustrating the functions of each button on the RF 17-key remote control.

Remote Control Functions:

- **ON/OFF ( ):** Press to turn the LED lights on or off.
- **MODE +** / **MODE -:** Cycle through various dynamic lighting modes (e.g., flashing, fading, jumping).
- **SPEED +** / **SPEED -:** Adjust the speed of the current dynamic lighting mode.
- **COLOR +** / **COLOR -:** Adjust the color in static color modes or cycle through color variations in certain dynamic modes.
- **BRIGHT +** / **BRIGHT -:** Increase or decrease the brightness of the LED lights.
- **DEMO:** Activates a demonstration mode that cycles through a variety of pre-programmed effects.
- **White:** Sets the LED lights to a static white color.
- **Static Color Buttons (Red, Green, Blue, Yellow, Cyan, Purple, Orange, Pink):**Directly select a static color.

The RF remote control operates effectively within a distance of 0-20 meters and can transmit signals through minor obstructions.

6. Troubleshooting

If you encounter issues with your RGB controller, please refer to the following common problems and solutions:

- **LEDs Not Lighting Up:**
  - Ensure the controller is properly connected to a DC 12V power source (e.g., via the SATA power adapter).
  - Check that the 4-pin connector from the LED strip is securely and correctly inserted into the controller's output port. Verify pin alignment.
  - Confirm the power supply unit (PSU) in your PC is functioning correctly and providing power to the SATA connector.
- **Remote Control Not Responding:**
  - Verify that a fresh CR2025 battery is installed in the remote control with the correct polarity.
  - Ensure there are no significant obstructions between the remote and the controller that could block the RF signal.
  - If the remote was previously paired or needs re-pairing, refer to the small instruction sheet that came with the product for specific pairing steps (if applicable).
- **Incorrect Colors or Flashing:**
  - Double-check the 4-pin connection between the LED strip and the controller. An incorrect connection can lead to color issues.
  - Ensure your LED strip is a standard 5050 RGB type compatible with a common anode controller.
- **Limited Remote Range:**
  - Replace the remote battery with a new one.
  - Minimize physical obstructions between the remote and the controller.

7. Maintenance

To ensure the longevity and optimal performance of your RGB controller and LED strip, follow these maintenance guidelines:

- **Cleaning:** Periodically clean the controller and LED strip with a soft, dry cloth to remove dust and debris. Do not use liquid cleaners or abrasive materials.
- **Environment:** Operate the device within the specified working temperature range (-20°C to 60°C). Avoid exposing the controller to extreme heat, cold, or high humidity.
- **Water Exposure:** This product is not water-resistant. Keep it away from liquids and moisture to prevent damage.
- **Connections:** Occasionally check all connections (power, LED strip) to ensure they remain secure and free from corrosion.

8. Warranty and Support

For specific warranty information regarding your Vrabocry DC12V RGB Controller, please refer to the product packaging or contact the seller directly. If you experience any issues that cannot be resolved using the troubleshooting guide, or require further assistance, please reach out to Vrabocry customer support through the retailer's platform where the product was purchased.

Please retain your proof of purchase for any warranty claims.