GALYGG 24Key Controller + 12V 3A adapder

GALYGG 24 Key LED Strip Controller User Manual

Model: 24Key Controller + 12V 3A adapder

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your GALYGG 24 Key LED Strip Controller. This product is designed to control 2835, 3528, and 5050 RGB LED strip lights, offering a variety of colors and lighting modes for enhanced ambiance.

2. Safety Information

- This product is designed for indoor use only.
- Keep the controller and power supply away from water and moisture to prevent electrical hazards.
- Ensure the power supply voltage matches the product's requirements (DC 12V, 3A).
- Do not attempt to disassemble or modify the product, as this will void the warranty and may cause damage or injury.
- Always disconnect power before making any connections or performing maintenance.

3. Package Contents

Upon opening the package, you should find the following components:

- 1 x 24 Key IR Remote Controller
- 1 x Rectifier Control Box
- 1 x 12V 3A Power Supply Connector
- 1 x 4 Pin Male to Male Connector (can be pulled out if not needed)

Image: The complete package includes the 24-key IR remote, the rectifier control box, and the 12V 3A power supply adapter.

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Video: An unboxing demonstration of the GALYGG IR Remote Controller and its included components.

4. Setup

1. **Prepare the Remote Control:** Before first use, locate the plastic tab at the bottom of the 24-key IR remote controller. Gently pull this tab out to activate the battery. If the remote does not respond, check that the battery is correctly inserted.

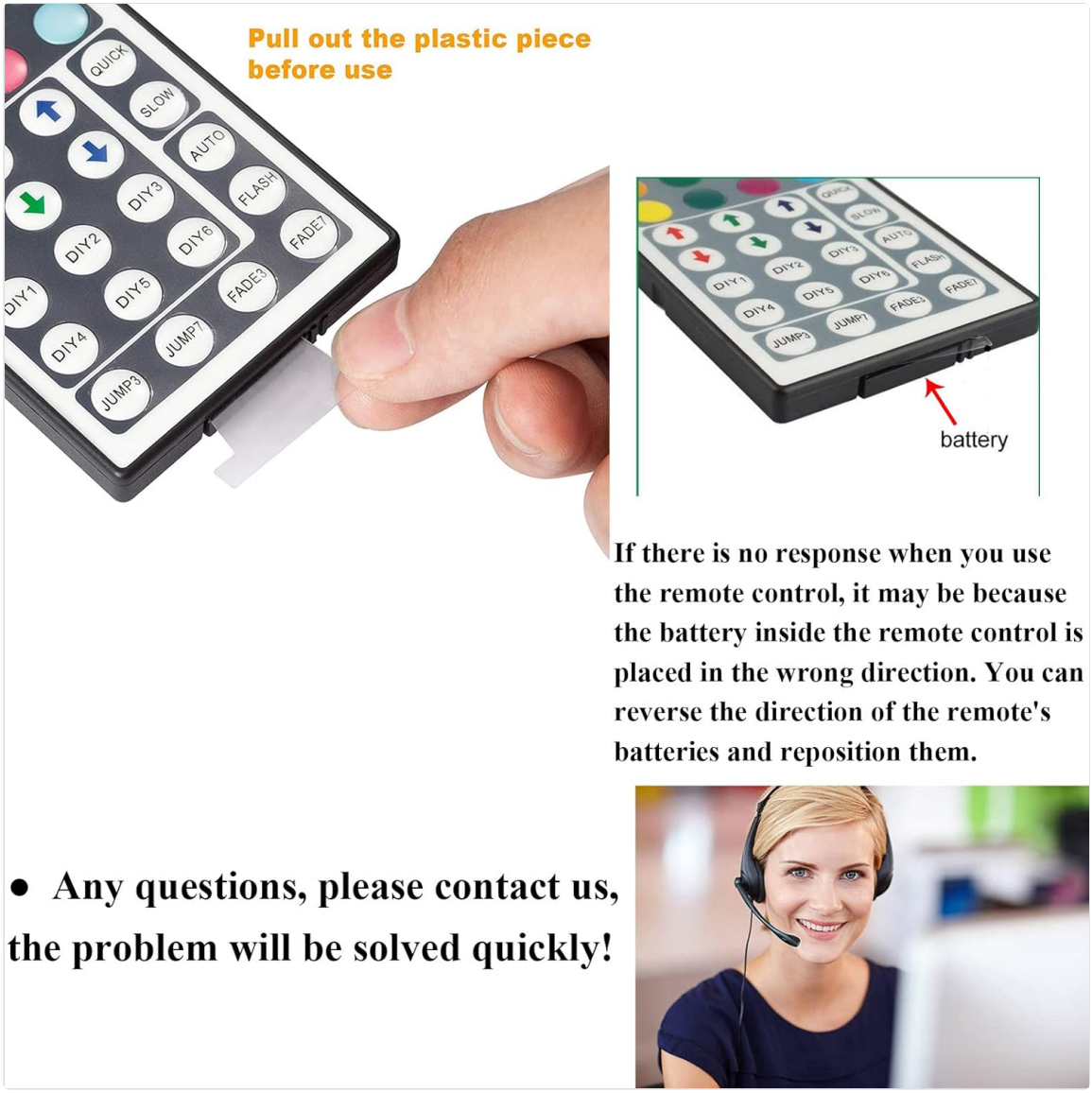

Image: Instructions showing how to remove the plastic battery tab from the remote control and how to check battery orientation if the remote is unresponsive.

2. **Connect the LED Strip to the Control Box:** Connect the 4-pin connector of your RGB LED strip light to the output port of the rectifier control box. Ensure that the arrow marks on both the control box connector and the LED strip connector are aligned. Misalignment will prevent the lights from functioning correctly.
3. **Connect the Power Supply:** Plug the DC 12V 3A power supply connector into the rectifier control box. Then, plug the power supply into a standard electrical outlet.

Fault Phenomenon	Cause Analysis	Solution
Light is not on	1. Switching power supply has no electricity 2. Power supply positive and negative poles are reversed 3. Wrong or not connected	1. Check the switching power supply 2. Corrected after inspection 3. Check the car wiring and connect it
The color is wrong	RGB line connection error	Recheck and connect the RGB lines
Some mode does not change	Speed is not adjusted	Press the speed button to speed up
Uneven LED brightness before and after	1. The output line is too long to have a voltage drop 2. The wire diameter is too thin to have a pressure drop 3. Power load overload	1. Shorten the circuit or ring power supply 2. Calculate the current, change the thick wire 3. Power supply with high power 4. Increase the power expander
Tips: The effective power of the switching power supply is only 80% of the power supply mark, so the user should select the power supply power more than the LED light load power, at least 20% more.		

Image: A diagram illustrating the correct connection method for the LED strip to the controller, emphasizing the alignment of arrow marks on the connectors.

Image: Detailed view of the 4-pin connector, highlighting the importance of aligning the arrows for proper connection between the LED strip and the control box.

4. **Position the IR Receiver:** The remote control operates via infrared (IR) signals. Ensure the remote is aimed directly at the IR receiver on the control box and that there are no obstacles blocking the signal path. The effective range is typically less than 8 meters.

Image: A visual guide to the remote control, showing the 4-pin plug, battery compartment, and the recommended distance for pointing the remote at the IR receiver.

5. Operating Instructions

The 24-key IR remote control allows you to manage various functions of your LED strip lights:

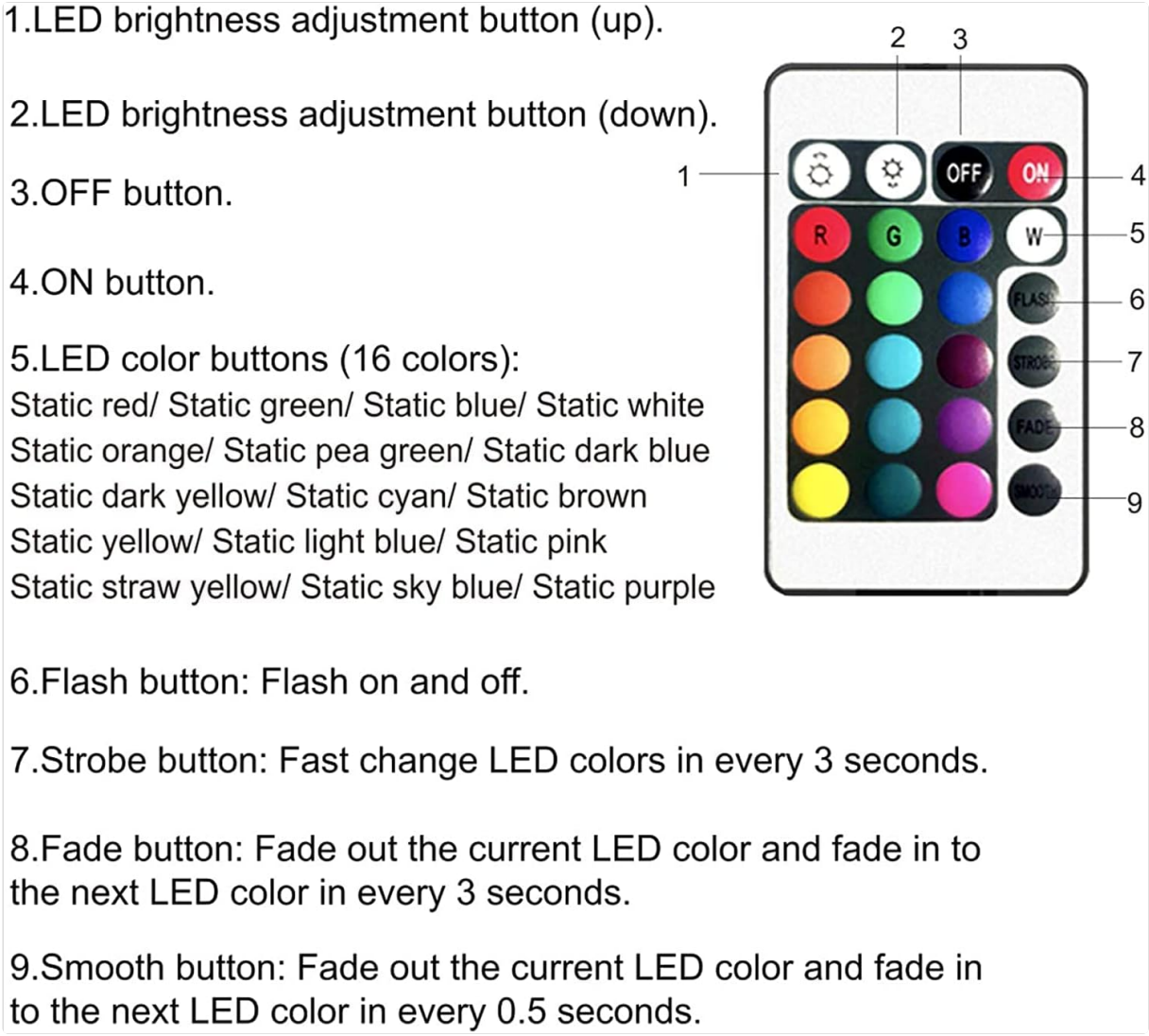

Image: A detailed diagram of the 24-key IR remote control, labeling each button and its corresponding function for easy reference.

- **ON/OFF Buttons:** Press the "ON" button to turn the lights on, and "OFF" to turn them off.
- **Brightness Adjustment:** Use the brightness adjustment buttons (sun icon with + or -) to increase or decrease the light intensity.
- **Static Color Buttons:** Select from 16 static colors including red, green, blue, white, orange, pea green, dark blue, dark yellow, cyan, brown, yellow, light blue, pink, straw yellow, sky blue, and purple.
- **Light Patterns:**
  - **FLASH:** Toggles flash mode on and off.
  - **STROBE:** Rapidly changes LED colors every 3 seconds.
  - **FADE:** Fades out the current LED color and fades into the next color every 3 seconds.
  - **SMOOTH:** Fades out the current LED color and fades into the next color every 0.5 seconds.

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Video: A demonstration of the LED strip lights changing colors and modes using the GALYGG RGB Control Box.

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Video: A close-up view of the GALYGG IR Remote Controller in use, demonstrating its various functions and responsiveness.

Image: An example of the LED strip lights installed in a living room, showcasing the vibrant color options and their effect on the room's ambiance.

6. Maintenance

- Keep the controller and LED strips clean by wiping them with a dry, soft cloth.
- Avoid using harsh chemicals or abrasive cleaners.
- Store the product in a cool, dry place when not in use for extended periods.
- Ensure proper ventilation around the power supply and control box to prevent overheating.

7. Troubleshooting

If you encounter any issues with your GALYGG LED Strip Controller, refer to the table below for common problems and their solutions:

Faults & Solutions

Fault Phenomenon	Cause Analysis	Solution
Light is not on	1. Switching power supply has no electricity 2. Power supply positive and negative poles are reversed 3. Wrong or not connected	1. Check the switching power supply 2. Corrected after inspection 3. Check the car wiring and connect it
The color is wrong	RGB line connection error	Recheck and connect the RGB lines
Some mode does not change	Speed is not adjusted	Press the speed button to speed up
Uneven LED brightness before and after	1. The output line is too long to have a voltage drop 2. The wire diameter is too thin to have a pressure drop 3. Power load overload	1. Shorten the circuit or ring power supply 2. Calculate the current, change the thick wire 3. Power supply with high power 4. Increase the power expander

Tips: The effective power of the switching power supply is only 80% of the power supply mark, so the user should select the power supply power more than the LED light load power, at least 20% more.

Image: A visual representation of the troubleshooting table, providing common issues and their respective solutions for the LED strip controller.

8. Specifications

Feature	Detail
Input Voltage	100-240 V 50/60 Hz
Output Voltage	12 V, 3A
Controller Type	IR Remote Control
Connectivity Technology	Infrared
Number of Colors	16 static colors
Light Patterns	Flash, Strobe, Fade-change, Smooth change
Indoor/Outdoor Usage	Indoor

Feature	Detail
Material	Plastic
Item Weight	0.14 Kilograms (5 ounces)
Product Dimensions (L x W x H)	5.51 x 4.09 x 2.4 inches
Batteries Required	1 CR2 battery (included)

9. Warranty

The manufacturer's warranty for this product is not applicable. Please refer to your retailer's return policy for any issues.

10. Support

For any questions or concerns regarding your GALYGG 24 Key LED Strip Controller, please contact our customer support. We are committed to resolving any issues quickly and efficiently.

Image: A customer support representative ready to assist with product inquiries.