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KIMISS KIMISS3a45nre629

KIMISS RF LED RGB Dimmer Controller User Manual

Model: KIMISS3a45nre629

1. Introduction

This manual provides comprehensive instructions for the KIMISS RF LED RGB Dimmer Controller, Model KIMISS3a45nre629. It covers the product's features, specifications, installation, operation, and maintenance to ensure safe and efficient use with your 12V-24V RGB LED strip lighting.
The controller utilizes 2.4G RF wireless transmission technology, offering a wide control range and intuitive touch-panel operation for color and brightness adjustments.

2. Safety Information

- **Power Supply:** Ensure the input voltage is within the specified DC12V-24V range. Connecting to an incorrect voltage may damage the device and connected LED strips.
- **Polarity:** Always observe correct polarity when connecting the power supply and LED strips. Incorrect connections can cause damage.
- **Installation Environment:** Do not install the device in areas with high humidity, extreme temperatures, or direct exposure to water.
- **Overload Protection:** Do not exceed the maximum output current of 6A per channel or the total output power (12V: 216W, 24V: 432W). Overloading can lead to overheating and device failure.
- **Battery Safety:** Use only specified AAA dry batteries for the remote control. Do not mix old and new batteries or different types of batteries. Dispose of used batteries responsibly.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.

3. Package Contents

Verify that all items are present in the package:

- 1 x RF Touch Remote Control
- 1 x LED RGB Controller Unit
- 1 x User Manual (this document)
- 1 x Double-sided Adhesive Sticker



Image 3.1: Package contents including the controller unit, remote control, and adhesive sticker.

4. Specifications

Feature	Specification
Model Number	KIMISS3a45nre629
Item Type	RF LED Dimmer Controller
Material	ABS
Working Temperature	-20°C to 60°C
Input Voltage	DC12V-24V
Output Channels	3 Channels (RGB)
Connection Type	Common Anode
Remote Battery Type	2 x AAA dry batteries (not included)
Standby Power Consumption	< 1W
Output Current	< 6A per channel
Output Power (12V)	< 216W

Feature	Specification
Output Power (24V)	< 432W
Control Range	20-30 meters (RF wireless)
Transmission Technology	2.4G RF Wireless
Product Dimensions (approx.)	13 x 13 x 3 cm (package/overall)

5. Setup and Installation

Follow these steps to set up your KIMISS RF LED RGB Dimmer Controller:

1. **Prepare Components:** Ensure you have the controller unit, remote control, LED RGB strip lights, and a compatible DC12V-24V power supply (not included).
2. **Install Remote Batteries:** Open the battery compartment on the back of the RF Touch Remote Control and insert 2 x AAA dry batteries, observing the correct polarity. Close the compartment securely.
3. **Connect LED Strips:** Connect your RGB LED strip lights to the output terminals of the controller unit. Ensure the R, G, B, and V+ (common anode) connections match the corresponding terminals on the LED strip.



Image 5.1: The controller unit (left) with input/output terminals and the remote control (right).

4. **Connect Power Supply:** Connect your DC12V-24V power supply to the input terminals of the controller unit. Pay close attention to the positive (+) and negative (-) terminals.
5. **Secure Controller:** Use the provided double-sided adhesive sticker to mount the controller unit in a suitable, dry location, if desired. Ensure it is not obstructed to maintain optimal RF signal reception.
6. **Power On:** Once all connections are secure, plug in your power supply to an electrical outlet. The LED strips should light up, or be ready for control.
7. **Pairing (if necessary):** The controller and remote are usually pre-paired. If the remote does not respond, refer to the specific pairing instructions in the included user manual for your model. Typically, this involves powering on the controller and pressing a specific button on the remote within a few seconds.

6. Operating Instructions

The RF Touch Remote Control allows for intuitive control of your LED RGB strip lighting. Familiarize yourself with the remote's layout:





Image 6.1: Detailed view of the RF Touch Remote Control.

- **Power Button (◯):** Press to turn the LED lights On or Off.
- **Color Ring:** Touch the color ring to select a static color for your LED strips. Slide your finger around the ring to cycle through millions of color options.
- **Brightness Adjustment (B+, B-):** Use the 'B+' button to increase brightness and the 'B-' button to decrease brightness.
- **Mode Selection (M+, M-):** Press the 'M+' or 'M-' buttons to cycle through various dynamic lighting modes (e.g., fading, jumping, flashing).
- **Speed Adjustment (S+, S-):** When a dynamic mode is active, use the 'S+' button to increase the speed of the effect and the 'S-' button to decrease it.

The 2.4G RF wireless technology allows you to control your lights from a distance of 20-30 meters, even through walls, providing flexible placement options for the controller unit.



Image 6.2: Examples of how the LED RGB Dimmer Controller can be used to enhance various indoor environments.

7. Maintenance

- **Cleaning:** Gently wipe the controller unit and remote control with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace the AAA batteries in the remote control when its range decreases or it becomes unresponsive. Ensure correct polarity.
- **Storage:** If storing the device for an extended period, remove the batteries from the remote control to prevent leakage. Store in a cool, dry place.

8. Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
LEDs do not light up.	No power to controller; incorrect power connection; faulty LED strip; remote batteries dead; remote not paired.	Check power supply connection and ensure it's plugged in. Verify input/output wiring polarity. Test LED strip with another power source. Replace remote batteries. Refer to pairing instructions in the included manual.
Remote control is unresponsive.	Dead batteries; remote not paired; out of range; interference.	Replace remote batteries. Re-pair the remote with the controller. Move closer to the controller. Reduce potential sources of 2.4G interference.
Incorrect colors displayed.	Incorrect RGB wiring.	Verify that the R, G, B, and V+ wires from the LED strip are connected to the correct terminals on the controller.
Lights flicker or dim unexpectedly.	Insufficient power supply; loose connections; overloaded controller.	Ensure power supply wattage is sufficient for the total length of LED strips. Check all wiring connections for tightness. Verify total wattage of LED strips does not exceed controller's maximum output.

9. Warranty and Support

KIMISS products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your purchase or contact your retailer. Keep your proof of purchase for warranty claims.

For technical support or further assistance, please contact KIMISS customer service through the retailer's platform or the official KIMISS website. When contacting support, please provide your product model number (KIMISS3a45nre629) and a detailed description of the issue.

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