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KERTME 5050-RGB-10M

KERTME 5050-60 Type AC 110-120V RGB LED Strip Lights User Manual

Brand: KERTME | **Model:** 5050-RGB-10M

1. Introduction

This manual provides detailed instructions for the safe and effective use of your KERTME 5050-60 Type AC 110-120V RGB LED Strip Lights. Designed for versatile decoration, these flexible, waterproof, and dimmable LED rope lights offer multiple colors and modes, making them suitable for various indoor and outdoor applications. Please read this manual thoroughly before installation and operation.



This image displays the KERTME 5050-60 Type AC 110-120V RGB LED Strip Lights, highlighting its flexible design, the included 24-key remote control, and potential decorative uses in various settings.

2. Package Contents

Verify that all items listed below are present in your package:

- 1x 10M (32.8ft) of 5050 RGB LED Light Strip
- 1x 24-key IR Remote Controller
- 1x Power Adapter with IR Receptor
- 14x LED Light Holders
- 1x End Cap
- 1x User Manual (this document)



A view of the KERTME LED strip lights, coiled on a reel, demonstrating its compact storage and the attached AC 110-120V power plug.

3. Features

The KERTME 5050-60 Type LED Strip Lights offer a range of features for optimal performance and user experience:

- **Super Brightness:** Utilizes high-quality 5050 SMD LEDs for intense and even illumination.
- **Dimmable:** Adjust light brightness to suit your preference.
- **Multi-Colors & Multi-Modes:** Offers RGB (Red, Green, Blue) color options and various dynamic lighting modes (Flash, Strobe, Fade, Smooth).
- **Flexible & Cuttable:** The slim and flexible PCB strip can be shaped, formed, or bent. It is cuttable every 1.64ft (0.5m) along designated cutting marks without damaging the rest of the strip.
- **Waterproof (IP67):** The LED strip itself is waterproof, making it suitable for both indoor and outdoor use.*Note: The power adapter is not waterproof and must be kept in a dry place or waterproof box.*
- **Durable & Long Lifespan:** Constructed with high-quality PVC tubing for heat resistance, high intensity, and reliability, with a lifespan of over 50,000 hours.

- **Low Power Consumption:** Energy-efficient design.
- **Eco-Friendly:** No splash, no UV radiation, mercury-free, and safe for humans and the environment.



Detailed view illustrating the key components of the LED strip: the bright 5050 SMD LEDs, the flexible copper circuit board for easy installation, and the durable, temperature-resistant, and waterproof PVC casing.



This image highlights the practical aspects of the LED strip, including its waterproof casing, the designated cutting marks every 0.5 meters for customization, and its inherent flexibility allowing for various installations.

4. Safety Information

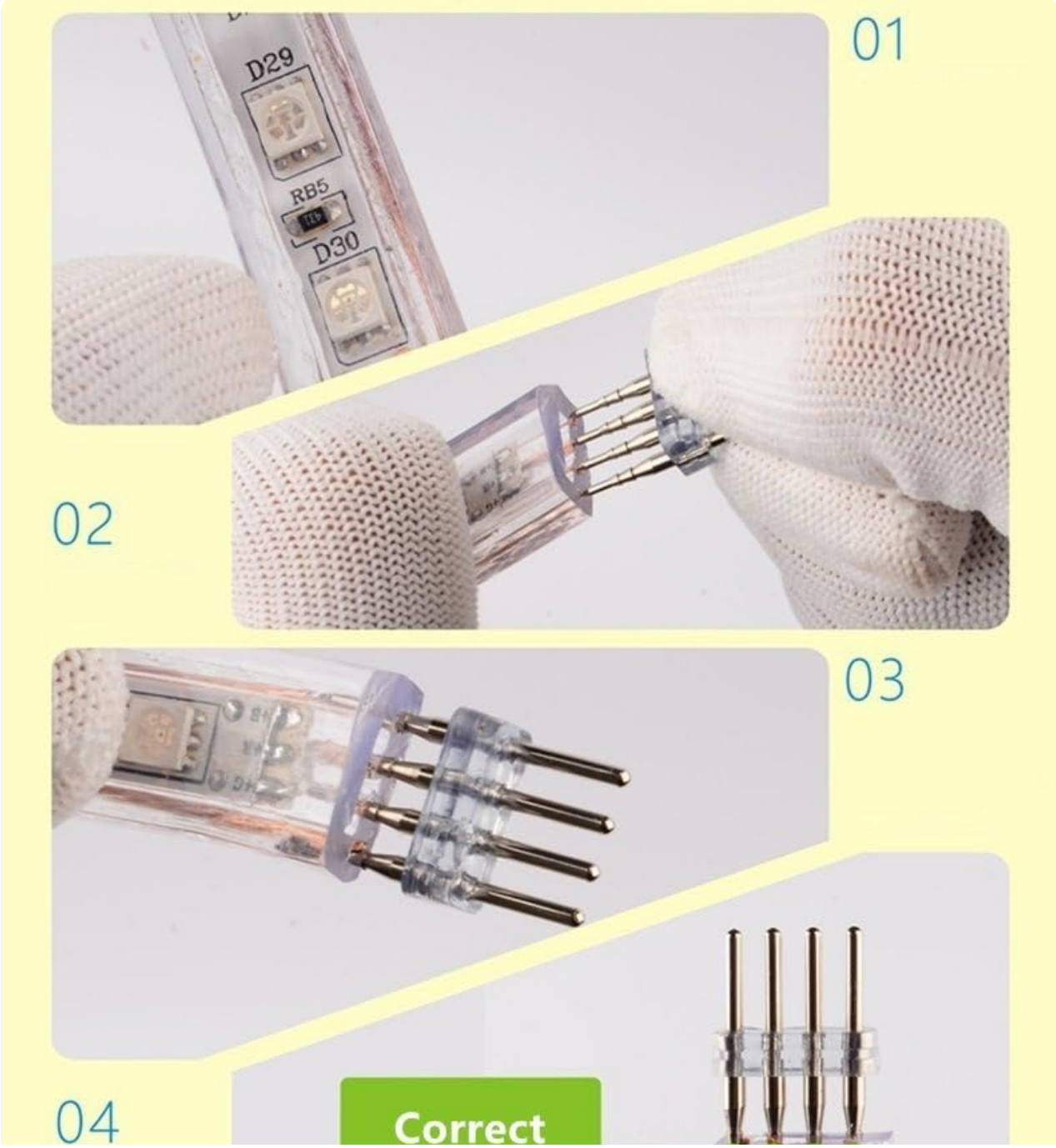
Please observe the following safety precautions:

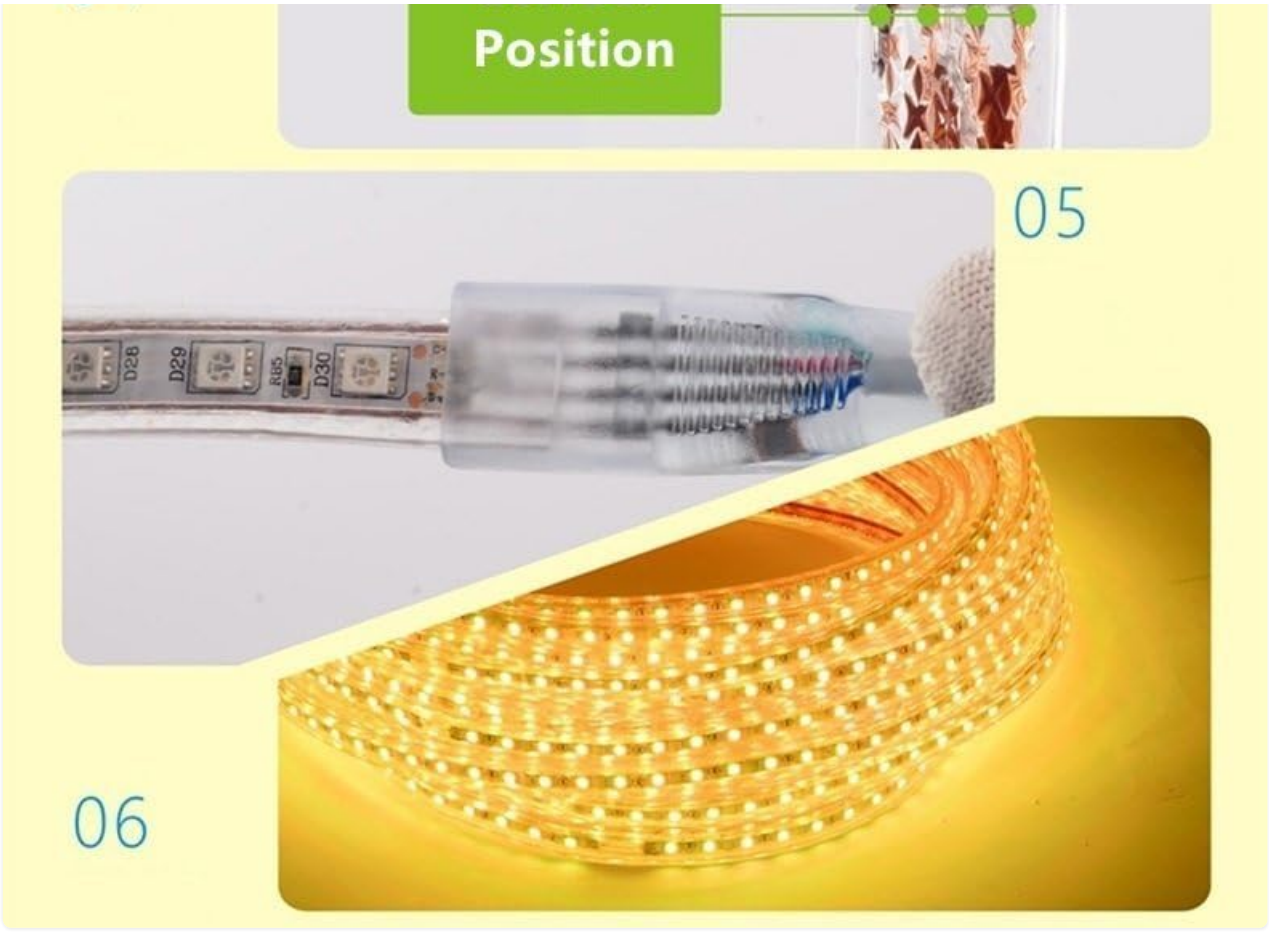
- Ensure the power supply is AC 110-120V. Using an incorrect voltage may damage the product and pose a safety risk.
- The LED strip is waterproof (IP67), but the power adapter and IR receiver are NOT waterproof. Protect them from moisture and direct water exposure.
- Always disconnect power before installing, cutting, or performing any maintenance on the LED strip.
- Do not bend the strip sharply or apply excessive force, as this may damage the internal circuitry.
- Ensure all connections are secure to prevent electrical shorts. Use waterproof tape to bundle connections between the LED strip, power adapter, and end cap for outdoor use.
- Keep the remote control away from water and extreme temperatures.

5. Installation Guide

Follow these steps to install your KERTME LED Strip Lights:

1. **Plan Your Layout:** Determine where you want to install the LED strip. Measure the length required.
2. **Cut (if necessary):** If a shorter length is needed, cut the LED strip only at the designated cutting marks (every 0.5m or 1.64ft). These marks are clearly indicated on the strip.
3. **Connect the Strip:** Carefully align the pins of the LED strip connector with the corresponding holes on the power adapter's IR receiver. Ensure a firm and correct connection.
4. **Secure the Strip:** Use the provided LED light holders to secure the strip in place. For permanent installations, additional mounting methods may be used.
5. **Install End Cap:** Place the end cap securely on the unconnected end of the LED strip to protect it from dust and moisture.
6. **Power Connection:** Plug the power adapter into a standard AC 110-120V electrical outlet.
7. **Test:** Use the remote control to test the lights before finalizing the installation.





A visual guide demonstrating the connection process of the LED strip to the power adapter, emphasizing correct pin alignment and secure attachment for proper functionality.

6. Operating Instructions

The LED strip lights are controlled using the included 24-key IR remote controller. Ensure the remote's IR emitter is pointed towards the IR receiver on the power adapter for proper function. The remote requires 2x AAA batteries (not included).

24 Key Remote Controller With IR Receiver

KERTME



**Only for KERTME Hight Voltage RGB led light strip(5m-20m)

The included 24-key infrared remote controller and its receiver, which are used to manage the LED strip's colors, modes, and brightness. Note that the power adapter is not waterproof.

Remote Control Functions:

- **ON/OFF:** Power button to turn the lights on or off.
- **Brightness Control:** ↑ and ↓ buttons to increase or decrease brightness.
- **Color Selection:** 12 dedicated color buttons for direct color selection (e.g., Red, Green, Blue, White, etc.).
- **Dynamic Modes:**
  - **FLASH:** Rapidly cycles through colors.
  - **STROBE:** Flashes a single color.
  - **FADE:** Smoothly transitions between colors.
  - **SMOOTH:** Gradual change between colors.

Note: Pressing a dynamic mode button quickly two times may result in a different effect.

7. Maintenance

Proper maintenance ensures the longevity and optimal performance of your LED strip lights:

- **Cleaning:** Gently wipe the LED strip with a soft, dry cloth to remove dust. For stubborn dirt, a slightly damp cloth can be used, ensuring the strip is unplugged and completely dry before reconnecting power.
- **Connection Check:** Periodically inspect all connections (strip to adapter, adapter to outlet) to ensure they are secure and free from corrosion or damage.
- **Environmental Protection:** While the strip is waterproof, avoid prolonged submersion or exposure to harsh chemicals. Ensure the non-waterproof components (power adapter, IR receiver) remain dry.
- **Storage:** If storing the lights for an extended period, coil them loosely and store in a cool, dry place away from direct sunlight.

8. Troubleshooting

If you encounter issues with your LED strip lights, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Lights do not turn on.	No power, loose connection, remote battery dead.	Check power outlet, ensure all connections are secure. Replace remote batteries (2x AAA).
Remote control not working.	Remote battery dead, IR receiver blocked, remote too far.	Replace remote batteries. Ensure no obstructions between remote and IR receiver. Operate remote within range.
Some sections of the strip are not lighting up.	Damage to the strip, incorrect cutting.	Inspect the strip for visible damage. Ensure cuts were made only at designated marks. If damaged, the section may need replacement.
Colors are incorrect or inconsistent.	Loose connection at the adapter.	Ensure the strip connector is fully and correctly inserted into the power adapter's IR receiver.

9. Specifications

Attribute	Detail
Product Name	High Voltage AC 110-120V LED Light Strip
Brand	KERTME
LED Mode Type	5050 SMD LED, 60 LEDs/Meter
Color	RGB (Red, Green, Blue) Multi Colors
Waterproof Grade	IP67 Waterproof (Strip only)
View Beam Angle	120°
Input Voltage	AC 110-120V
Working Temperature	-20°C to 50°C
Strip Dimensions (L x W x H)	10m (32.8ft) x 1.6cm x 0.8cm (393.7 x 0.63 x 0.31 inches)

Attribute	Detail
Wattage	72 watts
Item Weight	1.53 pounds (696 Grams)
Controller Type	24-key IR Remote Control
Remote Battery Requirement	2x AAA batteries (not included)
Connectivity Technology	Infrared
Material	Plastic (PVC tubing)
Model Number	5050-RGB-10M
UPC	709886416690

10. Warranty and Support

For warranty information or technical support, please refer to the product packaging or contact KERTME customer service directly through their official website or the retailer where the product was purchased. Please have your model number (5050-RGB-10M) and purchase details ready when contacting support.

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