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Merkury Innovations MI-LST11-999

Merkury Innovations MI-LST11-999 RGB LED Sound Sync Strip Lights User Manual

Model: MI-LST11-999

INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your Merkury Innovations MI-LST11-999 RGB LED Sound Sync Strip Lights. Please read this manual thoroughly before use to ensure proper functionality and safety.

The Merkury Innovations RGB LED Sound Sync Strip Lights are designed to provide customizable ambient lighting with sound synchronization capabilities. The 16.4 ft (5 meter) strip is flexible and features an adhesive backing for versatile placement in various indoor settings.

PACKAGE CONTENTS

Verify that all components are present before proceeding with installation:

- 16.4 ft (5 meter) RGB LED Strip Light
- IR Remote Control
- IR Remote Receiver / Sound Sensor
- Power Adapter (12V)



Image: Overview of the Merkurs Innovations RGB LED Sound Sync Strip Lights, including the coiled LED strip, IR remote control, IR controller with sound sensor, and power adapter.

SPECIFICATIONS

Feature	Detail
Model Number	MI-LST11-999
Brand	Merkury Innovations
Light Source Type	LED
Color	Multicolor (RGB)
Strip Length	16.4 ft (5 meters)
Number of Light Sources	150
Voltage	12 Volts

Feature	Detail
Wattage	36 watts
Power Source	Corded Electric
Controller Type	IR Remote Control
Special Features	Dimmable, Music Sync, Adhesive Backing, Cuttable

SAFETY INFORMATION

Please observe the following safety precautions to prevent damage to the product or personal injury:

- Ensure the power supply is disconnected before installation, cleaning, or maintenance.
- Do not expose the LED strip, IR receiver, or power adapter to water or excessive moisture. This product is designed for indoor use unless otherwise specified.
- Do not cut the LED strip at any point other than the designated cut marks, which are typically indicated by a scissor icon or copper pads. Cutting elsewhere will damage the circuit and render that section unusable.
- Avoid bending the LED strip sharply (e.g., at a 90-degree angle) to prevent damage to the internal circuitry and LEDs.
- Use only the provided power adapter. Using an incompatible power supply may damage the device or pose a fire hazard.
- Keep the product and its components out of reach of children.
- Do not cover the LED strip with materials that could trap heat, as this may lead to overheating.

SETUP AND INSTALLATION

Follow these steps for proper installation of your LED strip lights:

1. Prepare the Surface:

Clean and thoroughly dry the desired installation surface. Ensure it is smooth, non-porous, and free of dust, dirt, or grease for optimal adhesive performance. Uneven or dirty surfaces may compromise the adhesive bond.

2. Measure and Cut (Optional):

If a shorter length of the LED strip is required, locate the designated cut marks on the strip. These are typically marked with a scissor icon or copper pads. Cut only at these points using sharp scissors. **Do not cut elsewhere**, as this will damage the circuit and prevent the cut section from working.

3. Connect Components:

- Connect the 16.4 ft LED Strip Lights to the IR Remote Receiver. Ensure the arrow ends on both connectors align correctly before pushing them together firmly. Incorrect alignment can prevent the lights from functioning.
- Connect the IR Remote Receiver to the Power Adapter.
- Plug the Power Adapter into a standard wall outlet.

IR REMOTE CONTROL



Image: Step-by-step diagram illustrating the connection process for the LED strip, IR remote receiver, sound sensor, and power adapter. It highlights aligning arrow ends for correct connection to ensure proper functionality.

4. Adhere the Strip:

Carefully peel off a section of the protective backing from the adhesive tape on the back of the LED strip. Begin adhering the strip to your prepared surface, pressing firmly and evenly as you go. Continue peeling and pressing until the entire strip is installed. Avoid repositioning the strip multiple times, as this can weaken the adhesive.



Image: Close-up view of the adhesive backing being peeled off an LED strip light, demonstrating how to prepare it for installation on a surface. The adhesive is designed for secure attachment.

5. Position the IR Receiver:

Ensure the IR remote receiver (the small black box connected to the strip) is positioned in a location where it has a clear, unobstructed line of sight to where you will be using the remote control. Obstructions can interfere with remote signal reception.

OPERATING INSTRUCTIONS

Use the included IR remote control to operate your LED strip lights. Point the remote directly at the IR receiver for optimal response.



Image: Detailed layout of the IR remote control for the Mercury Innovations LED strip lights, showing buttons for power, colors, brightness, speed, flash effects, timer modes, fade effects, and sound sync modes.

Remote Control Functions:

- **ON/OFF:** Press to power the lights on or off.
- **V+/V-:** Press to increase (V+) or decrease (V-) the brightness of the lights.
- **R, G, B, W:** Select Red, Green, Blue, or White as a static color.
- **Color Buttons (20 colors):** Choose from 20 preset static colors to match your desired ambiance.
- **Speed Modes (QUICK, SLOW):** Adjust the speed of dynamic lighting effects (e.g., flash, fade, jump modes).
- **Light Modes:**
 - **FLASH:** Activates a rapid flashing effect of all available colors.
 - **FADE3:** Initiates a smooth, gradual transition between 3 primary colors.
 - **FADE7:** Initiates a smooth, gradual transition between 7 colors.
 - **JUMP3:** Causes an instant, abrupt change between 3 primary colors.
 - **JUMP7:** Causes an instant, abrupt change between 7 colors.

- **AUTO:** Cycles through various pre-programmed dynamic lighting modes automatically.
- **Timer Modes (1H, 2H, 3H, 4H):** Set the lights to automatically turn off after 1, 2, 3, or 4 hours, respectively.
- **Sound Sync Modes (♪1, ♪2, ♪3, ♪4):** Activate music synchronization. The built-in sound sensor will detect ambient audio and make the lights flash or change color in rhythm with the music. Different modes offer varied responses to sound patterns.

HOW TO CONNECT LED STRIP LIGHTS



Image: Illustration of Mercury Innovations LED strip lights changing colors and flashing in synchronization with music, demonstrating the sound sync feature.

MAINTENANCE

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

- **Cleaning:** Ensure the power is disconnected before cleaning. Gently wipe the LED strip and remote control with a dry, soft, lint-free cloth. Do not use liquid cleaners, abrasive materials, or harsh chemicals, as these can damage the components.
- **Adhesive:** If the adhesive backing begins to lose its stickiness over time or due to environmental factors, additional adhesive clips, double-sided tape, or mounting brackets (not included) may be used to secure the strip in place.

- **Storage:** When the LED strip is not in use for extended periods, disconnect it from power and store it in a cool, dry place, away from direct sunlight and extreme temperatures. Avoid tightly coiling the strip to prevent damage.
- **Remote Battery Replacement:** If the remote control becomes unresponsive, replace its battery with a new CR2025 or equivalent coin cell battery. Ensure correct polarity when inserting the new battery.

TROUBLESHOOTING

If you encounter issues with your Merkury Innovations LED strip lights, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
Lights do not turn on.	<ul style="list-style-type: none"> ◦ Power adapter not securely plugged in. ◦ Connections between components are loose or incorrect. ◦ Remote control battery is depleted. ◦ IR receiver is obstructed. 	<ul style="list-style-type: none"> ◦ Ensure the power adapter is fully inserted into both the wall outlet and the IR receiver. ◦ Verify all connections, especially the arrow alignment between the LED strip and the IR receiver. ◦ Replace the remote control battery (CR2025 or equivalent). ◦ Ensure the IR receiver has a clear line of sight to the remote.
Remote control is unresponsive.	<ul style="list-style-type: none"> ◦ Remote control battery is depleted. ◦ IR receiver is obstructed or out of range. 	<ul style="list-style-type: none"> ◦ Replace the remote control battery. ◦ Ensure a clear line of sight between the remote and the IR receiver. Move closer to the receiver.
Lights are not syncing with music.	<ul style="list-style-type: none"> ◦ Sound sync mode not activated on the remote. ◦ Sound sensor is not picking up sufficient audio. ◦ Music volume is too low. 	<ul style="list-style-type: none"> ◦ Press one of the "♪" buttons on the remote to activate a sound sync mode. ◦ Ensure the sound sensor (located on the IR receiver) is exposed and positioned close enough to the sound source. ◦ Increase the music volume to a detectable level.
Adhesive is not holding the strip.	<ul style="list-style-type: none"> ◦ Surface was not adequately clean or smooth. ◦ Environmental factors (e.g., high humidity, extreme temperatures, porous surface). ◦ Adhesive has lost its effectiveness over time. 	<ul style="list-style-type: none"> ◦ Re-clean and dry the surface thoroughly before re-application. ◦ Consider using additional adhesive clips, stronger double-sided tape, or mounting brackets for reinforcement. ◦ Ensure the installation environment is suitable for adhesive products.
Only a section of the strip is lit.	<ul style="list-style-type: none"> ◦ The strip was cut incorrectly (not at designated cut marks). ◦ Damage to the circuit in a specific section. 	<ul style="list-style-type: none"> ◦ Inspect the cut points. If cut incorrectly, the damaged section cannot be repaired. ◦ If damage is suspected, contact customer support.

WARRANTY AND SUPPORT

For detailed warranty information, technical assistance, or to report any issues not covered in this manual, please contact Mercury Innovations customer service.

Refer to the product packaging or the official Mercury Innovations website for the most current contact details and support resources.

Official Website: www.merkuryinnovations.com
