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› LD DARKEAGLE 16-Piece Motorcycle RGB LED Light Kit User Manual

## LD DARKEAGLE LD-2X-strip-16

# LD DARKEAGLE 16-Piece Motorcycle RGB LED Light Kit User Manual

Model: LD-2X-strip-16

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your LD DARKEAGLE 16-Piece Motorcycle RGB LED Light Kit. This kit is designed to enhance your motorcycle's visibility and aesthetic appeal with vibrant, customizable lighting effects, including integrated brake and turn signal functions. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## 2. PACKAGE CONTENTS

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

- Exquisite Packaging Box (x1)
- Multicolor RGB LED Strip Lights (x16)
- 24-key RF Remote (x1)
- 4-key RF Remote (x1)
- 8-Way Splitter (x2)
- Controller with switch and fuse (x1)
- Extension Cord (x5)
- L/R Turn extension cord (x1)
- Brake & Positive & Negative Extension Cord (x1)
- Instruction Manual (x1)
- Installation tools (Ties, Fuse, Wire connectors)

## 3. SPECIFICATIONS

| Feature | Description |
|---------|-------------|
|---------|-------------|

|                        |                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Brand                  | LD DARKEAGLE                                                                                                                                                                                          |
| Model Number           | LD-2X-strip-16                                                                                                                                                                                        |
| Number of Pieces       | 16                                                                                                                                                                                                    |
| Color                  | RGB Multicolor (16 Million DIY options)                                                                                                                                                               |
| Voltage                | 12 Volts (DC)                                                                                                                                                                                         |
| Light Source Type      | LED (SMD 5050 Lamp Beads)                                                                                                                                                                             |
| Water Resistance Level | IP68 Waterproof                                                                                                                                                                                       |
| Control Methods        | Bluetooth APP, 24-key RF Remote, 4-key RF Remote                                                                                                                                                      |
| Special Features       | Brake Light, Turn Signal, Music Mode, Dual Zone Control, Brightness/Speed Adjustment, Dynamic Modes (12 gradient, 8 strobe, 7 static, 2 jumping), Voice Control, Shake-to-change-color, Timer Setting |
| Material Type          | Rubber (sealed silicone tubing)                                                                                                                                                                       |
| Compatibility          | Universal fit for most 12V DC motorcycles and powersports vehicles (Cruiser, Sport Bike, Touring, Bagger, Street, Adventure, Dirt Bike, ATVs, UTVs, Trikes, etc.)                                     |

## 4. INSTALLATION GUIDE

Proper installation is crucial for the performance and longevity of your LED light kit. It is recommended to have basic electrical knowledge or seek professional assistance if unsure.

### 4.1 Pre-Installation Checklist

- Ensure your motorcycle's battery is 12V DC.
- Clean all mounting surfaces thoroughly with rubbing alcohol to ensure optimal adhesive bonding.
- Plan the routing of all wires and the placement of LED strips before applying adhesive.
- Disconnect the motorcycle's battery before starting any wiring.

### 4.2 Wiring Diagram and Connections

Refer to the diagram below for correct wiring connections. The controller connects directly to your motorcycle's 12V battery. Specific wires are provided for optional brake and turn signal integration.



Figure 1: Wiring Diagram for the LED Light Kit

- **Power In (Red Wire):** Connect to the positive (+) terminal of your 12V battery. Ensure the inline fuse is installed.
- **Ground (Black Wire):** Connect to the negative (-) terminal of your 12V battery or a suitable chassis ground point.
- **Brake (Yellow Wire):** Connect to your motorcycle's brake light positive wire. When the brake is applied, all LED strips will illuminate red.
- **L/R Turn (Blue/Green Wires):** Connect to your motorcycle's left and right turn signal positive wires. The corresponding side's LED strips will flash amber when the turn signal is activated.
- Use the provided wire connectors and ties to secure all connections and excess wiring.

### 4.3 LED Strip Placement and Adhesion

The LED strips are flexible and feature super sticky 3M adhesive for secure mounting. They can be cut to length at designated points if needed. Strategically place the strips on clean, dry surfaces such as wheel arches, underbody areas, fairings, and frames.



Figure 2: LED Strip Features (Flexibility, Adhesive, Waterproofing)

- Peel off the protective backing from the adhesive tape.
- Press the LED strip firmly onto the desired surface for at least 30 seconds.
- Ensure all connections are secure and protected from moisture.

After installation, reconnect the motorcycle battery and test all functions.

## 5. OPERATING INSTRUCTIONS

Your LD DARKEAGLE LED Light Kit offers multiple control methods and a wide range of customization options.

### 5.1 Control Methods

The kit can be controlled via a Bluetooth APP, a 24-key RF remote, or a 4-key RF remote.



Figure 3: Available Control Methods

- **Bluetooth APP:** Download the compatible app (available on App Store and Google Play) to your smartphone. Pair your device with the LED controller via Bluetooth to access full customization, including DIY colors, music sync, and timer settings.
- **24-key RF Remote:** Offers comprehensive control over colors, brightness, speed, and dynamic modes.
- **4-key RF Remote:** Provides basic control for changing colors, fading/flashing patterns, sound sensor activation, and power ON/OFF.

## 5.2 Lighting Modes and Features

- **RGB Multicolor:** Choose from 16 million colors via the APP for personalized lighting.
- **Dynamic Modes:** Includes 12 gradient modes, 8 strobe modes, 7 static modes, and 2 jumping modes. Adjust brightness and speed.
- **Music Sync Mode:** Lights pulse and change with the rhythm of music played through your smartphone (via APP).
- **Dual-Zone Control:** (Available via 24-key or 4-key RF remotes only) Independently adjust colors and modes for left/right or front/rear zones of your motorcycle.

- **Brake Light Function:** When brakes are applied, all LED strips illuminate bright red for increased visibility.
- **Turn Signal Function:** When a turn signal is activated, the corresponding side's LED strips flash amber.
- **Voice Control Mode:** Control lights using voice commands (via APP).
- **Shake-to-Change-Color:** Change colors by shaking your smartphone (via APP).
- **Timer Setting:** Schedule lights to turn ON/OFF at specific times (via APP).

### 5.3 Dual Zone Control (RF Remotes Only)

The Dual Zone Control feature allows for independent customization of two separate lighting zones on your motorcycle. This function is exclusively available through the 24-key or 4-key RF remotes, not the Bluetooth APP.

Your browser does not support the video tag.

Video 1: Demonstration of Dual Zone Control using the 4-key remote, showing independent color changes for two LED zones.

To activate Dual Zone Control:

1. Ensure the LED kit is powered on.
2. Within 5 seconds of powering on, press the "B" key on the 4-key RF remote, then press the "A" key. This will enable dual-zone mode, allowing you to control each zone independently.
3. Use the respective remote buttons to adjust colors and modes for each zone.

### 5.4 Music Sync Mode

Experience dynamic lighting that responds to your music. This feature is controlled via the Bluetooth APP.

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Video 2: Demonstration of the Music Sync mode, where motorcycle LED lights change in rhythm with music.

To use Music Sync Mode:

1. Open the Bluetooth APP on your smartphone.
2. Navigate to the Music Mode section.
3. Select and play music from your device. The LED lights will automatically synchronize with the audio beat.

## 6. MAINTENANCE

The LD DARKEAGLE LED Light Kit is designed for durability and minimal maintenance due to its IP68 waterproof rating and robust construction.

- **Cleaning:** Periodically clean the LED strips and controller with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Regularly check wiring connections for any signs of wear, corrosion, or looseness. Ensure LED strips remain securely adhered.
- **Waterproofing:** While IP68 rated, avoid directing high-pressure water jets directly at the controller or connections during washing.

## 7. TROUBLESHOOTING

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

| Problem                | Possible Cause                          | Solution                                                                                                                           |
|------------------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Lights do not turn on. | No power, loose connection, blown fuse. | Check battery connections. Verify the inline fuse is intact and replace if blown. Ensure the power switch on the controller is ON. |

|                                               |                                                                           |                                                                                                                                                                   |
|-----------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remote control not working.                   | Dead remote battery, remote out of range, interference.                   | Replace remote battery. Ensure you are within range of the controller. Try controlling via the APP.                                                               |
| Bluetooth APP cannot connect.                 | Bluetooth not enabled, incorrect app, controller not discoverable.        | Ensure Bluetooth is enabled on your phone. Download the correct app (refer to manual or product page). Restart the app and controller.                            |
| Lights flicker or dim.                        | Low voltage, loose wiring, faulty strip.                                  | Check battery voltage. Inspect all wiring for secure connections. If a single strip flickers, it may be faulty and require replacement.                           |
| Brake/Turn signals not functioning correctly. | Incorrect wiring to motorcycle's signal system, incompatible signal type. | Double-check connections to the motorcycle's brake and turn signal wires. Ensure these wires provide a consistent 12V signal when activated.                      |
| LED strips not adhering properly.             | Improper surface preparation, extreme temperatures.                       | Ensure mounting surface is clean, dry, and free of grease. Apply firm pressure during installation. Consider using an adhesion promoter for challenging surfaces. |

## 8. WARRANTY AND SUPPORT

LD DARKEAGLE offers a one-year limited warranty on this product. This warranty covers manufacturing defects and ensures the product functions as intended under normal use. For warranty claims or technical assistance, please contact LD DARKEAGLE customer support through their official channels or the retailer where the product was purchased. For additional support and product information, visit the [LD DARKEAGLE Store](#).

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

### Answered questions about this manual

**How do I activate the LD DARKEAGLE motorcycle light strips so they turn on in segments or zones rather than all at once?**

To activate the segmented lighting (Dual Zone Control) on your LD DARKEAGLE LED Light Kit, you must use the RF remotes, as this specific feature is not available via the Bluetooth app. Follow these...

[Read full answer](#)