

LD DARKEAGLE Double Row Motorcycle RGB LED Light Kits

LD DARKEAGLE 12PCS Double Row Motorcycle RGB LED Light Kit User Manual

Comprehensive instructions for installation, operation, and maintenance of your LD DARKEAGLE motorcycle LED light kit.

1. INTRODUCTION

Thank you for choosing the LD DARKEAGLE 12PCS Double Row Motorcycle RGB LED Light Kit. This kit is designed to enhance your motorcycle's visibility and style with vibrant, customizable lighting. Featuring ultra-bright LEDs, multiple control methods, and advanced safety functions, this manual will guide you through the setup and operation to ensure optimal performance.

Key Features:

- 3x Ultra-High Brightness Double-Row LED Strips (228 LEDs total)
- 16 Million Colors & 23 Dynamic Modes (flashing, breathing, fading, jumping)
- 3 Control Methods: Bluetooth APP, 24-key RF Remote, 4-key RF Remote
- Unique Brake Light & Turn Signal Functions for enhanced safety
- IP68 Waterproofing for all-weather durability
- Smart Energy-Saving Function: Auto-off after 30 seconds when motorcycle is off
- Dual-Zone Control for personalized lighting effects
- Music-Sync Mode to pulse lights with audio
- Universal 12V Fit for various motorcycles and powersports vehicles



Figure 1: Brightness comparison of single-row vs. double-row LED chips and various RGB color options for motorcycle underglow.

2. WHAT'S IN THE BOX

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

- 1 x Exquisite Packaging Box
- 12 x Multicolor Double Row RGB LED Strip Lights
- 1 x 24-key RF Remote
- 1 x 4-key RF Remote
- 4 x 3-Way Splitters
- 2 x Y-Way Splitters
- 1 x Controller with switch and fuse
- 1 x Instruction Manual
- Installation tools (Ties, Fuses, Wire connectors)

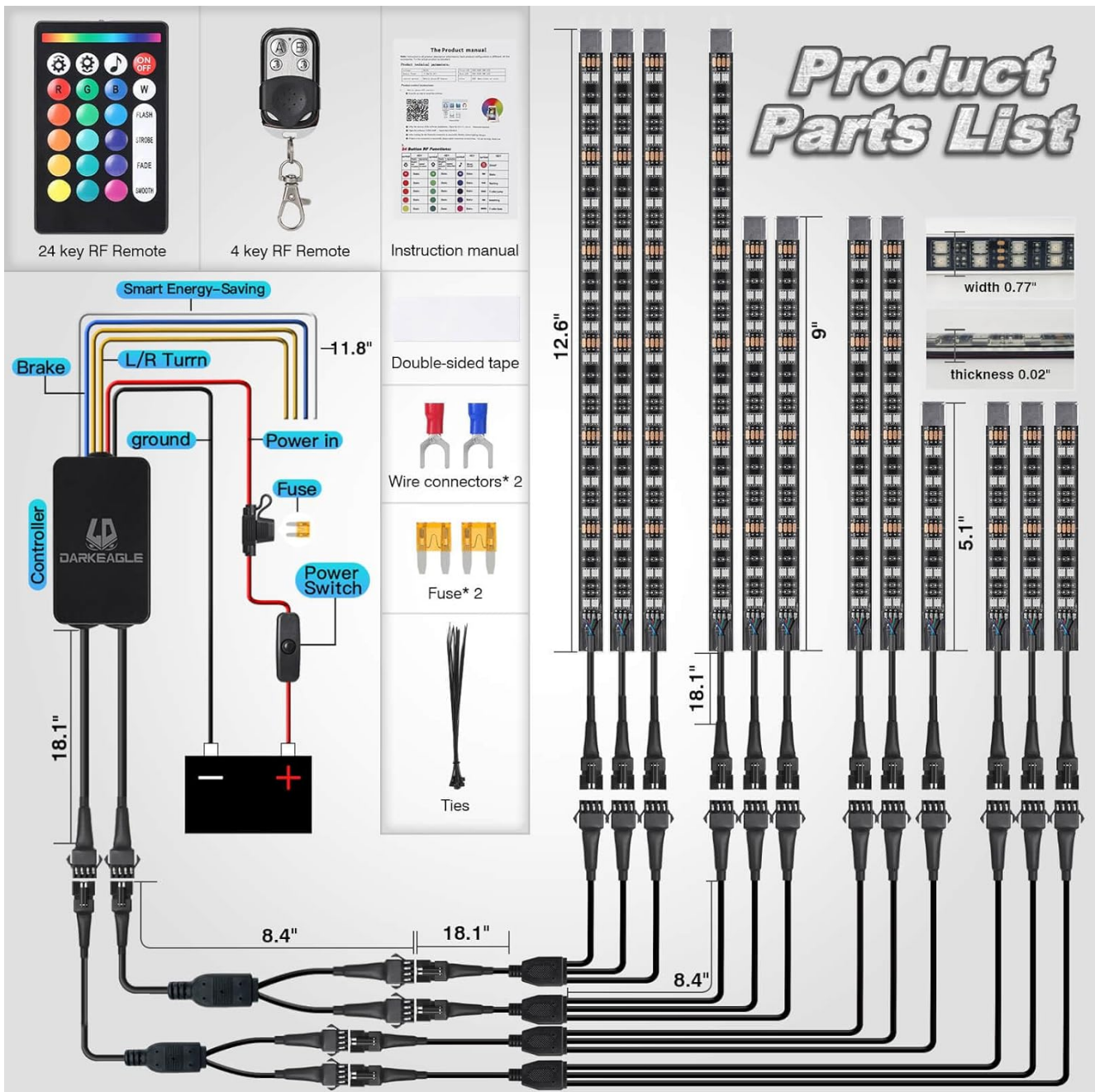


Figure 2: Detailed view of all components included in the LD DARKEAGLE 12PCS Double Row Motorcycle RGB LED Light Kit.

3. SPECIFICATIONS

Feature	Description
Brand	LD DARKEAGLE
Model	Double Row Motorcycle RGB LED Light Kits
Color	RGB Multicolor
Light Source Type	LED
Voltage	12 Volts (DC)
Water Resistance Level	IP68 Waterproof

Number of Pieces	12
Control Methods	Bluetooth APP, 24-key RF Remote, 4-key RF Remote
Special Features	3x Super Bright, Turn Signal Lights, Brake Light, Music Mode, Dual Zone Control, Smart Energy-Saving (auto-off 30s)
Material	Rubber
Fit Type	Universal Fit (12V DC motorcycles, ATVs, UTVs, etc.)



Figure 3: Examples of vehicle types compatible with the LD DARKEAGLE LED Light Kit.

4. SAFETY INFORMATION

- Always disconnect the vehicle's battery before beginning installation to prevent electrical shorts.
- Ensure all wiring connections are secure and properly insulated to prevent moisture ingress and short circuits.
- Route wires away from hot engine parts, moving components, and sharp edges to prevent damage.

- Verify the correct polarity when connecting to the battery (Red wire to positive, Black wire to negative).
- Do not cut or modify the LED strips unless explicitly instructed, as this may damage the product and void the warranty.
- Use appropriate fuses as supplied or recommended to protect the circuit.
- Ensure the controller is mounted in a dry, protected location.

5. SETUP AND INSTALLATION

Follow these steps for proper installation of your LED light kit:

1. **Plan Layout:** Before attaching, plan the placement of each LED strip on your motorcycle to ensure even lighting and proper cable routing. Consider areas like the underbody, frame, fairings, and wheel arches.
2. **Clean Surfaces:** Thoroughly clean and dry all surfaces where LED strips will be mounted. Use rubbing alcohol to remove any grease or dirt for optimal adhesive bonding.
3. **Attach LED Strips:** Peel the backing from the adhesive tape on each LED strip and firmly press it onto the desired surface. Use the included zip ties for additional security, especially in high-vibration areas.
4. **Connect Splitters:** Connect the LED strips to the provided 3-way and Y-way splitters. Ensure all connections are snug.
5. **Connect to Controller:** Connect the splitters to the main controller unit.
6. **Power Connection:** Connect the controller's red wire to the positive (+) terminal of your 12V battery and the black wire to the negative (-) terminal. Ensure the inline fuse is properly installed.
7. **Optional Brake/Turn Signal Wiring:**
 - **Brake Light (Blue Wire):** Connect the blue wire from the controller to your motorcycle's brake light positive wire. When the brake is applied, all LED strips will illuminate red.
 - **Turn Signals (Yellow Wires):** Connect the two yellow wires from the controller to your motorcycle's left and right turn signal positive wires, respectively. The corresponding side's LEDs will flash amber when the turn signal is activated.
8. **Secure Wiring:** Use zip ties to neatly secure all wiring, keeping it away from moving parts, heat sources, and potential pinch points.

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Video 1: Demonstration of the installation effect of the motorcycle underglow LED light kit.



Figure 4: Visual representation of the brake light and turn signal functions for enhanced safety.

6. OPERATING INSTRUCTIONS

Your LD DARKEAGLE LED light kit offers multiple ways to control its features:

6.1. Bluetooth APP Control

Download the companion app by scanning the QR code in the product manual or searching for "LED BLE" in your app store. Once installed, connect via Bluetooth to unlock 16 million colors, 23 dynamic modes, music sync, voice control, shake-to-change-color, DIY palette settings, and timer scheduling.

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Video 2: Overview of the 12PCS Double Row Motorcycle LED Light Kit, demonstrating APP and dual remote control features.

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Video 3: Demonstration of the music mode feature, where lights synchronize with audio.

6.2. RF Remote Control (24-key & 4-key)

Use the included RF remotes to adjust brightness, speed, and colors across 12 gradient modes, 8 strobe modes, 7 static modes, and 2 jumping modes. The 24-key remote offers more granular control, while the 4-key remote provides quick access to essential functions.

Dual-Zone Control: This advanced feature is exclusively available via the 24-key or 4-key RF remotes. It allows you to independently adjust the left/right or front/rear zones of your motorcycle with different colors, dynamic modes, or effects.

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Video 4: Demonstration of the dual-zone control function, allowing independent lighting customization for different areas of the motorcycle.

3 Control Methods

Adjust brightness, speed, and colors with 12 gradient modes, 8 strobe modes, 7 static modes, and 2 jumping modes, plus voice control, shake-to-change-color, DIY color settings, and timer scheduling.

Download on the App Store | Available for Android

23 Dynamic Modes | Music Mode | DIY | Brightness Adjustment | Speed Adjustment | Timing

4 key RF Remote

- A CHANGE COLORS
- B FADING/FLASHING PATTERNS
- C SOUND SENSOR
- D POWERON/OFF

24 key RF Remote

- Adjustable brightness
- 16 Preset Colors
- Sound Active Mode
- Power ON/OFF
- The current color flash
- Colour jump
- The current color breath
- Color gradient

Figure 5: Overview of the three available control methods for the LED light kit.

6.3. Smart Energy-Saving Function

When your motorcycle is turned off, the LED light kit will automatically power down after 30 seconds. This feature prevents battery drain if you forget to turn off the lights, ensuring your battery remains charged for your next ride.



Figure 6: Smart energy-saving feature for battery protection.

7. MAINTENANCE

- **Cleaning:** Gently wipe the LED strips with a damp cloth to remove dirt and debris. Avoid using harsh chemicals or abrasive cleaners that could damage the waterproof coating.
- **Connection Check:** Periodically inspect all wiring connections for tightness and signs of wear or corrosion. Re-secure or replace any damaged components.
- **Waterproofing Integrity:** Although rated IP68 waterproof, regularly check the silicone tubing and end caps for any signs of damage that could compromise water resistance.
- **Fuse Replacement:** If the lights stop working, check the inline fuse. Replace it with a fuse of the same rating if blown.



3 Major Protective Measures

- Surface Epoxy
- Sleeve
- Waterproof End Caps

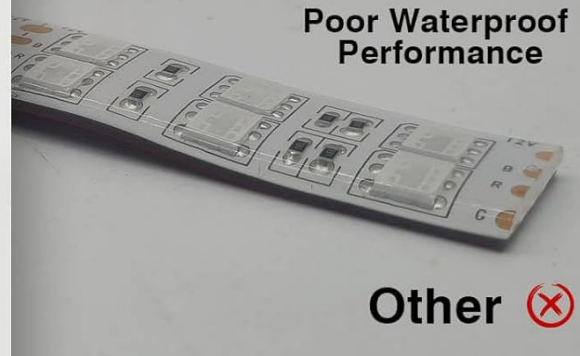


Figure 7: IP68 Waterproof design with three major protective measures.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Lights do not turn on.	No power, blown fuse, loose connection.	Check battery connections, replace fuse, ensure all wires are securely connected.
Remote control not working.	Dead battery in remote, remote out of range, interference.	Replace remote battery, ensure clear line of sight to controller, check for strong interference sources.
APP cannot connect to controller.	Bluetooth off, app not paired, controller issue.	Ensure Bluetooth is enabled on your device, restart the app, try re-pairing the device.
Lights are dim or flickering.	Low voltage, loose connection, damaged strip.	Check battery voltage, inspect all connections, replace any damaged LED strips.

Brake/Turn signals not working.	Incorrect wiring, faulty connection.	Double-check the blue and yellow wire connections to the correct vehicle wires as per the wiring diagram.
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9. WARRANTY AND SUPPORT

LD DARKEAGLE products are designed for quality and durability. For specific warranty information, please refer to the product packaging or contact your retailer. If you encounter any issues or require technical assistance, please contact LD DARKEAGLE customer support through the retailer's platform or the contact information provided in your product packaging.

Optional protection plans may be available for extended coverage:

- 2-Year Protection Plan
- 3-Year Protection Plan
- Complete Protect (monthly plan)

For more information, visit the [LD DARKEAGLE Store](#).