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› CHINLY 16W RGBW LED Fiber Optic Starlight Headliner Light Kit (Model QJ-L016) Instruction Manual

CHINLY QJ-L016

CHINLY 16W RGBW LED Fiber Optic Starlight Headliner Light Kit

Model: QJ-L016

Brand: CHINLY

1. INTRODUCTION

This instruction manual provides detailed guidance for the installation, operation, and maintenance of your CHINLY 16W RGBW LED Fiber Optic Starlight Headliner Light Kit. This kit is designed to create a starry sky effect in various environments, including vehicle headliners and home ceilings. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Image 1.1: CHINLY 16W RGBW LED Fiber Optic Starlight Headliner Light Kit with illuminated car interior and components.

2. PRODUCT OVERVIEW AND FEATURES

The CHINLY Fiber Optic Light Kit offers a versatile lighting solution with advanced control options. Key features include:

- **Fiber Optics:** 260 pieces of 0.03-inch (0.75mm) diameter optical fiber, each 6.5 feet (2 meters) in length. Made from PMMA plastic, these fibers are non-conductive, waterproof, flexible, and offer excellent color rendering.
- **Light Engine:** Features built-in RGBW LEDs, allowing for a wide spectrum of colors, including pure white. The light engine is not waterproof.
- **Color and Mode Control:** Select from 16 million colors via the mobile application. Includes fade, jump, flash, and breath modes. Brightness and speed are adjustable.
- **Sound-Activated Mode:** The lighting effects can synchronize with music or ambient sounds, creating dynamic visual displays.
- **Control Options:** Operated via a dedicated Bluetooth mobile application (compatible with Android and iPhone) or the included remote control. The app provides comprehensive control over color, mode, speed, and brightness.

- **Versatile Application:** Suitable for various installations such as car headliners, home ceilings, bedrooms, bathrooms, entertainment areas, KTV rooms, and cinemas.
- **Power Adapters:** Includes both a standard power adapter and a cigarette lighter adapter for flexible power options.



Image 2.1: Examples of various color modes and effects achievable with the fiber optic light kit.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- 1x 16W RGBW LED Light Engine (Model QJ-L016)
- 1x Bundle of 260pcs 0.03in (0.75mm) x 6.5ft (2m) Fiber Optic Cables
- 1x RF Remote Control
- 1x Home Power Adapter

- 1x Car Cigarette Lighter Adapter
- 1x User Manual (this document)

4. SPECIFICATIONS

Feature	Specification
Model Number	QJ-L016
Brand	CHINLY
Light Source Type	LED (RGBW)
Light Source Wattage	16 Watts
Voltage	12 Volts
Fiber Optic Quantity	260 pieces
Fiber Optic Diameter	0.03 inches (0.75mm)
Fiber Optic Length	6.5 feet (2 meters)
Fiber Material	PMMA Plastic
Light Engine Material	Aluminum
Control Methods	Bluetooth APP, RF Remote Control
Special Features	Sound-Activated, Color-Changing
Power Source	Corded Electric
Item Weight	0.79 Kilograms (1.73 pounds)
UPC	724268533505

0.51lb/231g

● **RGBW LED Chip**



Image 4.1: Detailed view of the light engine with dimensions and component labels.

5. SETUP AND INSTALLATION

Installation requires careful planning and execution. The process generally involves preparing the surface, drilling holes, inserting fiber optic cables, and connecting the light engine.

5.1. Planning and Preparation

- **Surface Removal:** For car headliners or certain ceiling types, the surface may need to be removed for access. Consult vehicle-specific guides or professional assistance if unsure.
- **Layout Design:** Plan the desired pattern for your starlight effect. Mark the locations for each fiber optic cable on the back of the headliner or ceiling panel. Consider varying the density of lights for a more natural look.
- **Drill Bit Selection:** Use a drill bit slightly larger than the fiber optic cable diameter (e.g., 0.8mm or 1.0mm for 0.75mm fibers) to allow for easy insertion.

5.2. Drilling and Fiber Insertion

- **Drill Holes:** Carefully drill holes at the marked locations. Ensure the holes are clean and free of debris.

- **Insert Fibers:** Feed each fiber optic cable through its designated hole from the back of the panel to the front. Ensure the desired length protrudes on the visible side.
- **Secure Fibers:** Once all fibers are in place, secure them on the back of the panel using a suitable adhesive, such as hot glue. This prevents them from slipping out. Ensure the glue does not obstruct the light path.

5.3. Light Engine Connection

- **Bundle Fibers:** Gather all fiber optic cables and insert the bundled end into the light engine's connector. Ensure a snug fit.
- **Power Connection:** Connect the appropriate power adapter (home adapter or car cigarette lighter adapter) to the light engine.
- **Placement:** Position the light engine in a secure, well-ventilated area. Note that the light engine is **not waterproof** and should be protected from moisture.

Installation



Image 5.1: Installation diagram for both ceiling and car headliner applications.

5.4. Trimming Fibers

After installation, trim the visible ends of the fiber optic cables to the desired length using a sharp knife or scissors. Ensure a clean cut for optimal light output.

6. OPERATING INSTRUCTIONS

The CHINLY Fiber Optic Light Kit can be controlled using the included RF remote or a dedicated Bluetooth mobile application.

6.1. Remote Control Operation

The RF remote allows for basic control of the light kit:

- **Power Button:** Turn the light kit ON or OFF.
- **Color Buttons:** Select static colors (Red, Green, Blue, White, etc.).
- **Mode Buttons:** Cycle through various dynamic modes (e.g., Jump, Fade, Flash, Breath).
- **Brightness/Speed Adjustment:** Increase or decrease the brightness of static colors or the speed of dynamic modes.
- **Music Mode:** Activate sound-activated mode.

6.2. Bluetooth APP Control

For advanced control and customization, use the mobile application:

1. **Download App:** Scan the QR code provided in the packaging or search for the designated app (e.g., "My Smart LED" or similar, as indicated in the product documentation) on your smartphone's app store (Android/iPhone).
2. **Enable Bluetooth:** Ensure Bluetooth is enabled on your smartphone.
3. **Connect to Device:** Open the app and follow the on-screen instructions to connect to your CHINLY light engine.
4. **Control Functions:** Within the app, you can:
 - Select from 16 million colors using a color wheel.
 - Adjust brightness levels precisely.
 - Choose from various dynamic modes and customize their speed.
 - Activate and fine-tune the sound-activated (music) mode.
 - Set timers or schedules for lighting effects.

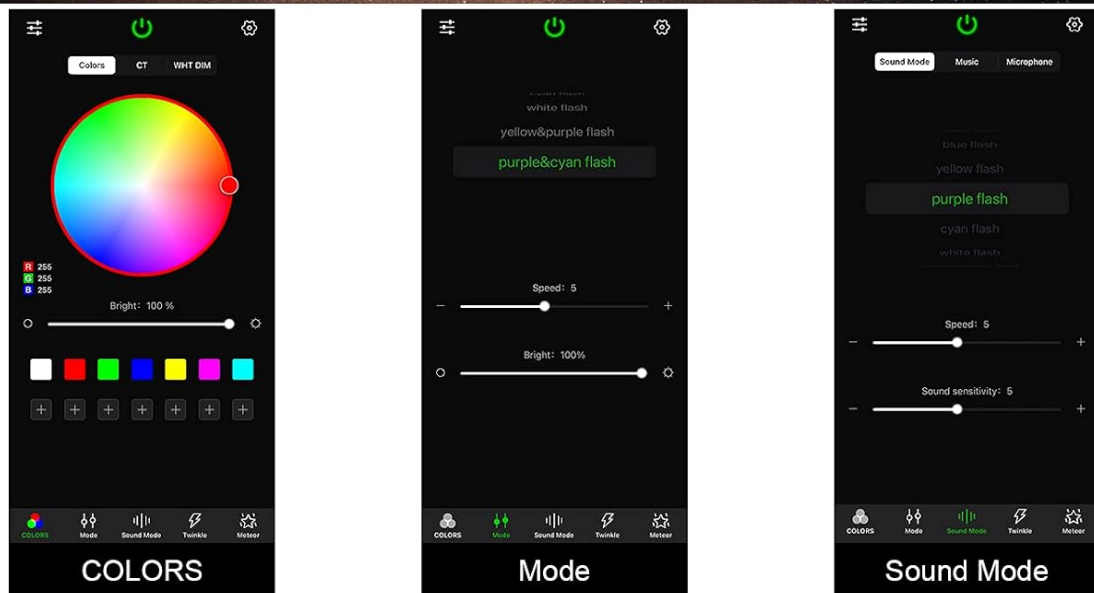
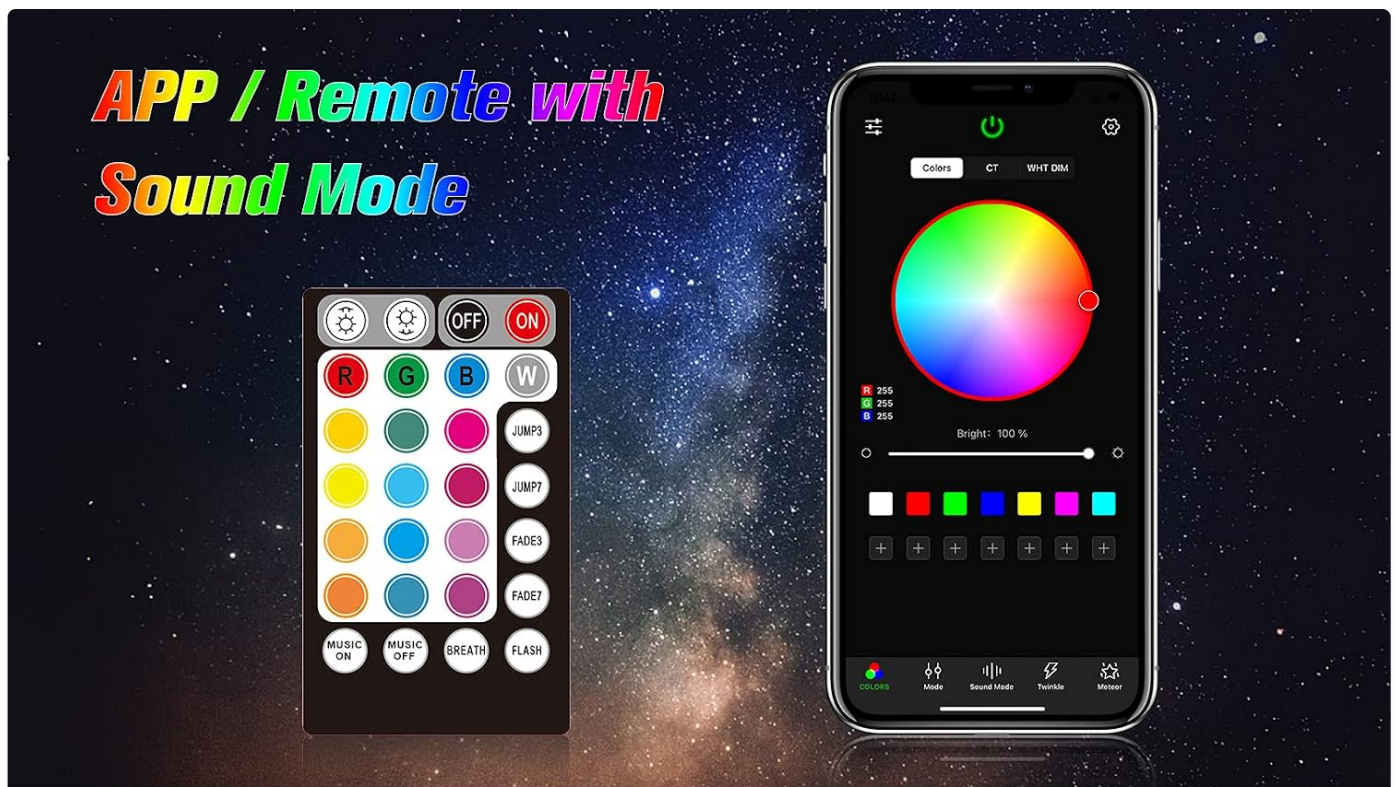


Image 6.1: Overview of the mobile application interface and the included remote control.

7. MAINTENANCE

To ensure the longevity and optimal performance of your CHINLY Fiber Optic Light Kit, follow these maintenance guidelines:

- **Cleaning:** Gently wipe the light engine and exposed fiber ends with a soft, dry cloth to remove dust. Avoid using abrasive cleaners or solvents.
- **Light Engine Protection:** Keep the light engine in a dry environment, away from direct sunlight, extreme temperatures, and moisture. As noted, the light engine is not waterproof.
- **Fiber Care:** While the fiber optic cables are durable and waterproof, avoid excessive bending or sharp angles that could damage the internal structure.
- **Remote Battery:** If the remote control becomes unresponsive, replace its battery (type typically CR2025 or similar, check remote for specifics).

8. TROUBLESHOOTING

If you encounter issues with your light kit, refer to the following troubleshooting steps:

- **No Power:**
 - Ensure the power adapter is securely connected to both the light engine and a functional power outlet/cigarette lighter.
 - Check the power source itself (e.g., test the outlet with another device).
- **No Light Output:**
 - Verify the light engine is powered on.
 - Ensure the fiber optic bundle is correctly inserted into the light engine's connector.
 - Check if the brightness setting is too low via the remote or app.
- **Remote Not Responding:**
 - Replace the remote control battery.
 - Ensure there are no obstructions between the remote and the light engine's receiver.
- **App Connection Issues:**
 - Ensure Bluetooth is enabled on your smartphone.
 - Restart the app and try connecting again.
 - Ensure the light engine is powered on and within Bluetooth range.
 - If issues persist, try restarting the light engine by unplugging and re-plugging its power.
- **Inconsistent Light:**
 - Check for any kinks or damage in the fiber optic cables.
 - Ensure the fiber bundle is fully inserted into the light engine.

9. WARRANTY AND SUPPORT

The CHINLY 16W RGBW LED Fiber Optic Starlight Headliner Light Kit comes with a **2-year service warranty**. This warranty covers manufacturing defects and ensures satisfactory solutions for product-related issues.

For technical support, warranty claims, or any questions regarding your product, please contact CHINLY customer service through the retailer where the product was purchased or refer to the contact information provided on the CHINLY official website.

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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