

CHINLY CY-10w16w

CHINLY CY-10w16w 16W RGBW Twinkle Fiber Optic Starlight Headliner Kit User Manual

Comprehensive guide for installation, operation, and maintenance.

1. PRODUCT OVERVIEW

The CHINLY CY-10w16w Starlight Headliner Kit provides a dynamic fiber optic lighting system designed to create a starry sky effect. It features a 16W RGBW LED light engine with twinkle functionality, controlled via Bluetooth APP or an included remote. This kit is suitable for various applications, including car headliners, home theaters, and other decorative lighting projects.

Key Features:

- Fiber Optic Cables:** 550 pieces of 0.03-inch diameter, 13.1-foot long end-glow PMMA plastic fiber optic cables. These cables are safe, non-conductive, waterproof, flexible, and offer excellent color rendering with a long lifespan.
- Light Engine:** 16W RGBW LED light engine with built-in twinkle function for a realistic starry sky effect.
- Control Options:** Bluetooth APP control (Android/iPhone) for convenient color, mode, speed, and brightness adjustments. A remote control is also included.
- Sound-Activated Mode:** The lighting system can synchronize with music, providing a dynamic visual experience.
- Versatile Application:** Ideal for cars, home theaters, bedrooms, festivals, bars, and other decorative lighting needs.

Package Contents:

- 1x 16W RGBW Twinkle Light Engine (Model: CY-10w16w)
- 1x 550pcs 0.03in x 13.1ft Fiber Optic Cable Bundle
- 1x RF Remote Controller
- 1x Power Adapter (AC 100-240V)
- 1x Car Cigarette Lighter Power Adapter (DC 12V)
- 1x Bluetooth Antenna
- Drill Bits (various sizes for fiber installation)
- User Manual

2. SAFETY INFORMATION

Please read and understand all safety instructions before installation and use. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the power supply voltage matches the product specifications (AC 100-240V for home, DC 12V for car).
- Do not expose the light engine to water or moisture. The light engine is not waterproof.
- Keep the light engine in a well-ventilated area to prevent overheating.
- Do not attempt to open or modify the light engine. Refer all servicing to qualified personnel.
- Keep fiber optic cables away from sharp objects or excessive bending to prevent damage.
- Disconnect power before performing any maintenance or installation.

3. SETUP

3.1 Components Identification

Familiarize yourself with the main components of the CHINLY Starlight Headliner Kit:



Image 3.1: CHINLY Light Engine with labeled components and dimensions (4.3"L x 2.9"W x 4.3"H, 0.99lb/450g).

- **Light Engine:** The main unit housing the LED light source and control electronics.

- **Fiber Optic Port:** Where the fiber optic cables are inserted into the light engine.
- **Bluetooth Antenna:** For wireless connection to the mobile application.
- **Power Input:** Connects to the power adapter.
- **Indicators:** Working and signal indicators provide status feedback.

3.2 Installation Steps

The installation process requires careful planning and execution. It is recommended to test the light kit before permanent installation.



Image 3.2: Installation diagrams for ceiling and car headliner applications.

1. **Prepare the Surface:** For car headliners, remove the headliner from the vehicle. For home ceilings, identify the installation area.
2. **Marking Points:** Plan the desired star pattern and mark the locations for each fiber optic cable. Consider varying the density for a more realistic effect.
3. **Drilling Holes:** Use the provided drill bits (0.8mm for 0.03in fiber, 1.1mm for 0.04in fiber, 1.6mm for 0.06in fiber) to create holes at the marked points. Ensure the drill bit size matches the fiber diameter to ensure a snug fit.

4. **Inserting Fibers:** Carefully insert each fiber optic cable through the drilled holes from the front side of the headliner/ceiling. Group fibers into bundles for easier management and to create clusters of stars.
5. **Securing Fibers:** On the back side, secure the fibers using adhesive or hot glue to prevent them from slipping. Ensure the fibers are not kinked or sharply bent.
6. **Connecting to Light Engine:** Gather all fiber optic cables and insert them into the light engine's fiber optic port. Tighten the screw to secure the bundle.
7. **Mounting the Light Engine:** Place the light engine in a discreet, well-ventilated location. For car installations, ensure it is secured and protected from vibrations.
8. **Power Connection:** Connect the appropriate power adapter (AC for home, DC for car) to the light engine.
9. **Trim Excess Fibers:** Once all fibers are installed and secured, trim the excess fiber length on the front side of the headliner/ceiling using a sharp knife or scissors, flush with the surface.

For visual guidance on the product's functionality and installation, please refer to the following official seller videos:



Video 3.1: Overview of the CHINLY 16W Twinkle LED RGBW Fiber Optic Headliner Light Kit, demonstrating its features and effects.



Video 3.2: Demonstration of Bluetooth APP control for the 16W Twinkle Fiber Optic Lighting Star Ceiling Light, showcasing color and mode changes.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

- Connect the light engine to a power source using the provided AC adapter or car cigarette lighter adapter.
- The unit will power on automatically or can be turned on/off using the remote control or mobile APP.

4.2 Bluetooth APP Control

The "My SmartLED" application allows for comprehensive control of your starlight kit.

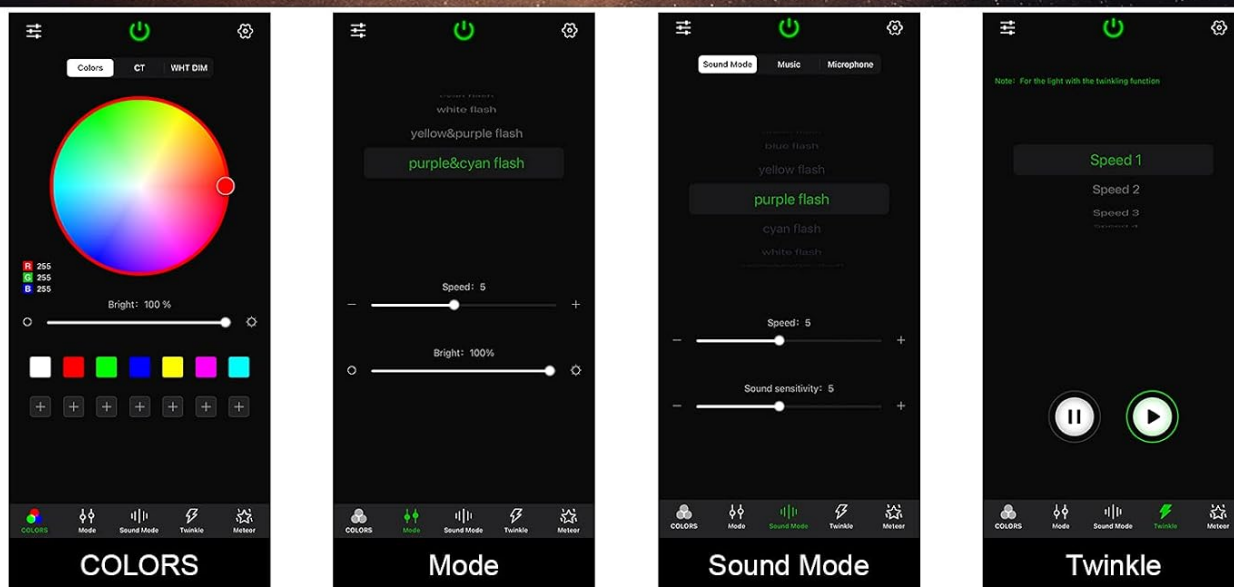


Image 4.1: Bluetooth APP interface for controlling colors, modes, sound, and twinkle effects.

1. **Download APP:** Scan the QR code in the user manual or search for "My SmartLED" in your smartphone's app store (Google Play or Apple App Store).
2. **Enable Bluetooth:** Turn on Bluetooth on your smartphone.
3. **Power On Light Box:** Ensure the light engine is powered on.
4. **Open APP:** Launch the "My SmartLED" application. It should automatically connect to the light engine.
5. **Control Functions:** Use the APP to change colors, select various modes (fade, jump, flash), adjust speed, and modify brightness.

4.3 Remote Control

The included RF remote control provides an alternative method for operating the starlight kit.

- **Power Button:** Turn the unit ON/OFF.
- **Color Selection:** Directly select static colors (Red, Green, Blue, White, etc.).
- **Brightness Adjustment:** Increase or decrease the light intensity.

- **Mode Selection:** Choose from various dynamic modes like jump, fade, or flash.
- **Speed Control:** Adjust the speed of dynamic modes.
- **Music Mode:** Activate sound-activated lighting effects.

4.4 Sound-Activated Mode

The light engine features a built-in microphone that allows the lights to react to sound.

- Activate the sound mode via the remote control (Music ON/OFF button) or through the "Sound Mode" section in the "My SmartLED" APP.
- The lights will change color and intensity in response to ambient sounds or music.

4.5 Twinkle Effect

The twinkle function creates a realistic star-like flickering effect.

- The twinkle effect is integrated into the light engine.
- Adjust the twinkle speed and intensity using the remote control or the "Twinkle" section in the "My SmartLED" APP.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your starlight kit.

- **Cleaning:** Gently wipe the light engine with a dry, soft cloth. Do not use liquid cleaners or abrasive materials.
- **Fiber Care:** Avoid pulling or sharply bending the fiber optic cables. If fibers become dirty, gently wipe them with a damp cloth.
- **Storage:** If storing the kit for an extended period, disconnect it from power and store it in a cool, dry place away from direct sunlight.
- **Ventilation:** Ensure the light engine's ventilation openings are not blocked to prevent overheating.

6. TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
No light output	Power not connected; Light engine off; Remote/APP not working.	Check power connections; Turn on the light engine; Replace remote battery or re-pair APP.
Lights not changing color/mode	Remote battery low; APP not connected; Incorrect mode selected.	Replace remote battery; Reconnect APP via Bluetooth; Select desired mode.
Twinkle effect not working	Twinkle function disabled; Speed set to minimum.	Enable twinkle function via remote/APP; Increase twinkle speed.
APP connection issues	Bluetooth off; Light engine out of range; Interference.	Ensure Bluetooth is on; Move closer to the light engine; Restart APP and light engine.
Fibers appear dim or uneven	Fibers kinked/damaged; Improper insertion into light engine; Light engine dirty.	Inspect fibers for damage; Re-insert fibers correctly; Clean light engine's fiber port.

7. SPECIFICATIONS

Feature	Specification
Model Number	CY-10w16w
Light Source Type	RGBW LED
Wattage	16 Watts
Brightness	1100 lumens
Fiber Quantity	550 pieces
Fiber Diameter	0.03 inches (0.75mm)
Fiber Length	13.1 feet (4 meters)
Material	PMMA Plastic (Fiber), Metal (Light Engine)
Input Voltage (AC)	100-240 Volts
Input Voltage (DC Car)	12 Volts
Operating Temperature	-58°F to 167°F (-50°C to 75°C)
Product Dimensions	4.3"L x 2.9"W x 4.3"H
Item Weight	4.52 pounds
UPC	724268533451

8. WARRANTY AND SUPPORT

CHINLY provides a **2-year service warranty** for this product. If you encounter any issues or have questions regarding your CHINLY Starlight Headliner Kit, please contact our customer support for assistance. We are committed to providing satisfactory solutions.

For further support, please visit the official CHINLY store on Amazon: [CHINLY Store](#)

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