

## AZIMOM 16WS

# AZIMOM LED Bluetooth 16W RGBW Fiber Optic Star Ceiling Kit User Manual

Model: 16WS (150pcs\*0.03in\*6.5ft)

## 1. INTRODUCTION

Thank you for choosing the AZIMOM LED Bluetooth 16W RGBW Fiber Optic Star Ceiling Kit. This kit is designed to create a captivating star-like lighting effect for various environments, including car headliners, home ceilings, KTV rooms, bars, and clubs. Featuring a 16W RGBW light engine, flexible PMMA fiber optic cables, and multiple control options, this system offers a versatile and dynamic lighting experience.

Key features include:

- **Premium Material:** Flexible transparent PMMA end-glow fiber optic cable and a 16W RGBW light engine with pure white and RGB mixed white light options.
- **Dynamic Lighting:** Sound-activated music mode, allowing fiber strands to synchronize with music rhythm.
- **Multicolor & DIY Modes:** 28-key remote controller for static colors, jump, fade, flash, and breath modes. Combine RGB colors with pure white for over 16 million color possibilities via APP or Bluetooth control.
- **Multiple Control Options:** Control the light engine conveniently via the "My SmartLED" APP (Android and iOS), Bluetooth, or the included 28-key remote control.

## 2. PACKAGE CONTENTS

Please verify that all components are present in your package:

- 1x 16W RGBW LED Light Engine
- 1x Fiber Optic Cable Bundle (150pcs, 0.03in diameter, 6.5ft length)
- 1x 28-Key RF Remote Controller
- 1x Power Adapter (AC/DC)
- 1x Car Cigarette Lighter Power Adapter
- 1x User Manual



Image 2.1: Overview of the AZIMOM Fiber Optic Star Ceiling Kit components, including the light engine, fiber bundle, remote, and power adapters.

### 3. SPECIFICATIONS

Feature	Specification
Model Number	16WS
Light Engine Wattage	16 Watts
Input Voltage	12 Volts (DC)
Light Source Type	LED (RGBW)
Fiber Optic Type	PMMA End Glow
Fiber Quantity & Size	150 pieces, 0.03 inch diameter, 6.5 feet length

Control Methods	Bluetooth APP ("My SmartLED"), 28-Key RF Remote Control
Light Engine Dimensions	4.53"L x 3.15"W x 1.46"H (115mm x 80mm x 37mm)
Light Engine Weight	1.59 pounds (0.72 Kilograms)
Material	Plastic



Image 3.1: Detailed view of the light engine with its dimensions and connection points.

## 4. INSTALLATION GUIDE

This section outlines the general steps for installing your fiber optic star ceiling kit. Installation can be a detailed process, especially for car headliners. Patience and careful planning are recommended.

### 4.1 Planning and Preparation

- Choose Light Engine Location:** Select a location that is easily accessible for power connection, convenient

for maintenance, and allows for proper ventilation.

- **Determine Fiber Length:** Calculate the required fiber length by measuring the distance from the light engine to each desired star point, then add an extra 30-40cm to account for slight tangles and insertion into the light engine.
- **Mark Pattern:** On the back of your ceiling panel (e.g., car headliner or home ceiling board), mark the desired star points for your pattern.

## 4.2 Installation Steps

1. **Drill Holes:** Drill holes vertically at each marked star point. The hole size should be appropriate for the fiber optic cable diameter (0.03 inches).
2. **Insert Fibers:** Insert the fiber optic cables approximately 10cm into the drilled holes from the back of the panel.
3. **Secure Fibers:** Fix the inserted fibers in place using hot melt adhesive or glass cement on the back of the panel.
4. **Organize Fibers:** Straighten and tie up the fibers in small bundles to prevent tangling. It is beneficial to count and group fibers by length or area before insertion.
5. **Connect and Test:** Connect the fiber optic bundle to the light engine, then connect the light engine to power. Power on the system to test the lighting.
6. **Trim Excess:** Once satisfied with the placement and function, clip off any excess fiber length from the front of the panel using nail clippers or a sharp blade to achieve a flush finish.



# Installation Process

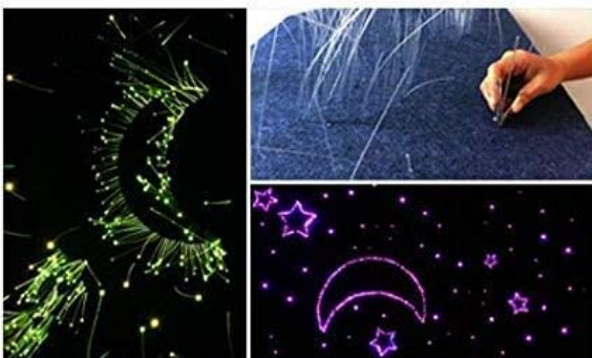


**Drill holes** vertically of the points you marked.



**Straighten and tied up** fibers in small bundles to avoid tangled.

*\*Better to count the quantity and the length of the fiber in advance before insert them into holes. And mark which bunch use at which area.*



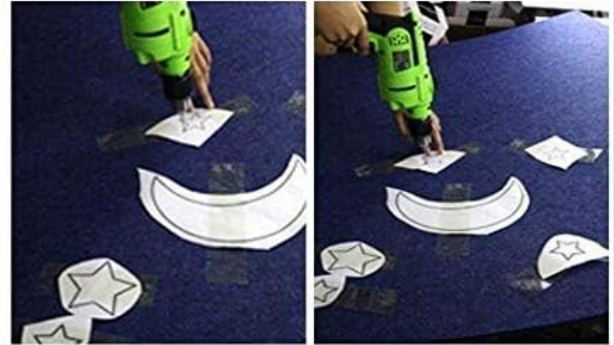
## Notice:

Make sure where you want to place the light engine. It should be an place can get power easily, convenient for maintenance and keep ventilated.

Fiber length you need = length from LED light engine to the star point + 30~40cm  
(For some slight tangle that you may can not avoid. For the fiber length to insert into LED light engine .)

Do not press or tread on the fiber while installing.

**Mark star points** of the pattern you want.



**Insert fibers** about 10cm into the board

**Then fix** with hot melt adhesive or glass cement.



**Connect** and power on to test.

**Then clip off** the excess length from beneath with nail clippers and finish installation.

Image 4.1: Step-by-step visual guide for the fiber optic installation process, from marking points to trimming fibers.



Image 4.2: Diagrams illustrating typical installation setups for home ceilings and car roofs.

### 4.3 Important Considerations

- Do not press or tread on the fiber optic cables during installation to avoid damage.
- For car installations, consider removing the headliner for easier access and a cleaner finish. Reinstalling the headliner may require assistance.

## 5. OPERATING INSTRUCTIONS

Your AZIMOM Fiber Optic Star Ceiling Kit can be controlled via the included RF remote or the "My SmartLED" mobile application.

### 5.1 Remote Control Operation

The 28-key RF remote control allows for quick adjustments to your lighting effects.



Image 5.1: Layout of the 28-key RF remote control with button functions.

- **ON/OFF:** Power the light engine on or off.
- **R, G, B, W Buttons:** Select static Red, Green, Blue, or White colors. The 'W' button provides pure white light.
- **Color Buttons:** Select various static colors.
- **JUMP3/JUMP7:** Activate 3-color or 7-color jump dynamic modes.
- **FADE3/FADE7:** Activate 3-color or 7-color fade dynamic modes.
- **FLASH:** Activate a 7-color flash dynamic mode.
- **BREATH:** Activate a 7-color breath dynamic mode.
- **Speed +/-:** Adjust the speed of dynamic modes.
- **Brightness +/-:** Adjust the brightness of static colors or dynamic modes.
- **MUSIC ON/OFF:** Toggle the sound-activated music mode. When ON, the lights will react to sound. When OFF, the light source returns to conventional change mode.

## 5.2 APP Control (My SmartLED)

For advanced control and customization, download the "My SmartLED" app from the Android Play Store or Apple App Store.



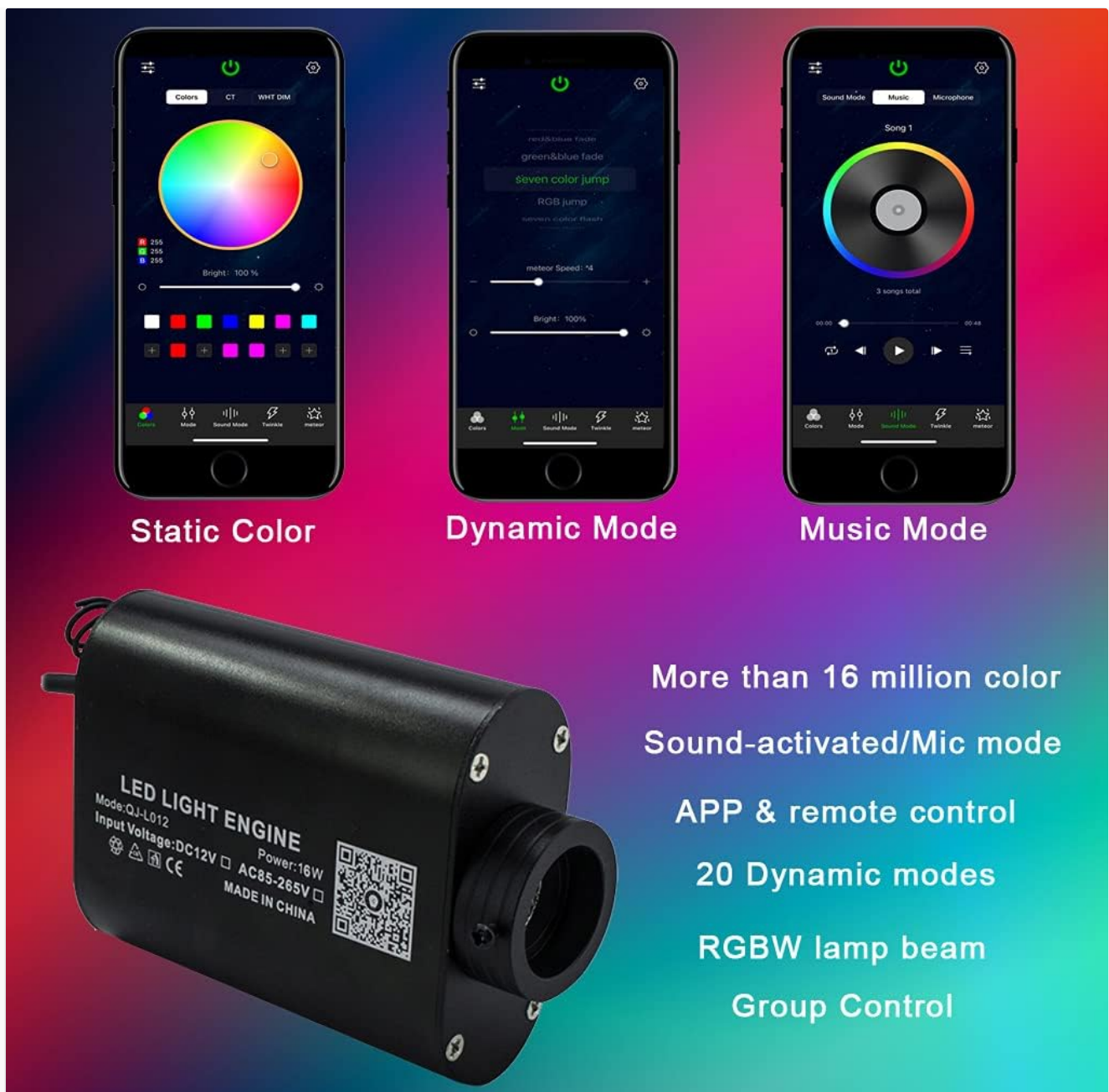


Image 5.2: Screenshots of the "My SmartLED" app interface showing static color, dynamic mode, and music mode controls.

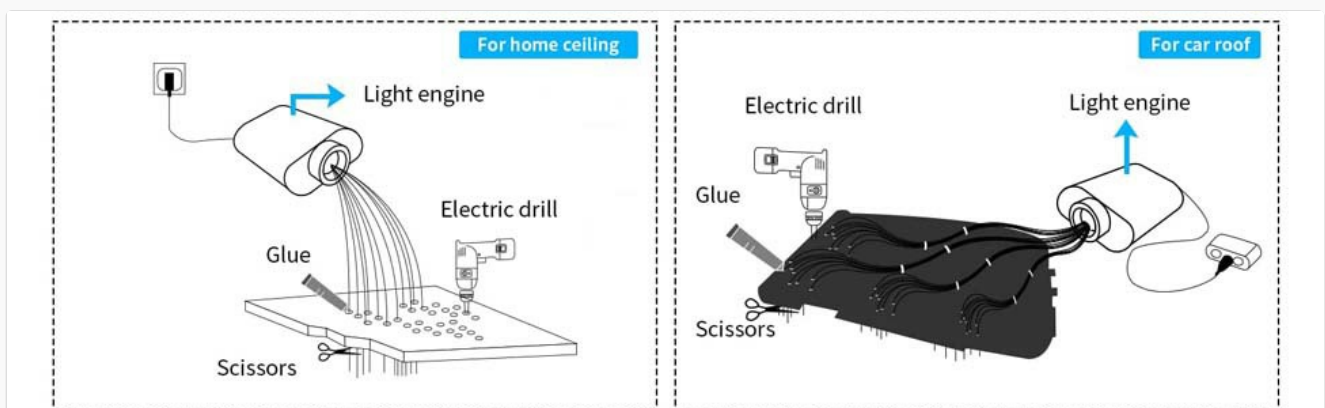


Image 5.3: Visual representation of app control via Bluetooth, highlighting the app's features and download options.

1. **Download App:** Search for "My SmartLED" in your device's app store and install it.
2. **Enable Bluetooth:** Ensure Bluetooth is enabled on your smartphone.
3. **Connect to Device:** Open the "My SmartLED" app. It should automatically detect and connect to your AZIMOM light engine. If not, follow the in-app instructions to pair.



4. **Control Features:** The app provides comprehensive control, including:

- **Static Color Selection:** Choose from over 16 million colors using a color wheel.
- **Dynamic Modes:** Access 20+ dynamic modes, including jump, fade, flash, and breath effects.
- **Music Mode:** Activate sound-activated lighting that synchronizes with music played through your phone's microphone.
- **Brightness & Speed Adjustment:** Fine-tune the intensity and speed of lighting effects.
- **Group Control:** If you have multiple AZIMOM light engines, the app may support group control.

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## 6. MAINTENANCE

To ensure the longevity and optimal performance of your AZIMOM Fiber Optic Star Ceiling Kit, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the light engine and exposed fiber ends with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Fiber Care:** Avoid bending or sharply creasing the fiber optic cables, as this can damage the light transmission properties.
- **Ventilation:** Ensure the light engine has adequate airflow to prevent overheating. Do not cover ventilation openings.
- **Power Supply:** Use only the provided power adapters. Disconnect power during extended periods of non-use.

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## 7. TROUBLESHOOTING

If you encounter issues with your AZIMOM Fiber Optic Star Ceiling Kit, please refer to the following common problems and solutions:

- **No Light Output:**
  - Check if the light engine is properly connected to a power source and the power outlet is functional.
  - Ensure the power adapter is securely plugged into the light engine.
  - Verify that the light engine is turned on via the remote or app.
- **Remote Control Not Responding:**
  - Check the battery in the remote control and replace it if necessary (CR2025 or CR2032, depending on model).
  - Ensure there are no obstructions between the remote and the light engine's RF receiver.
- **Bluetooth/APP Connection Issues:**
  - Ensure Bluetooth is enabled on your smartphone.
  - Restart the "My SmartLED" app.
  - Try restarting the light engine by disconnecting and reconnecting power.
  - Ensure your phone is within close proximity to the light engine.
- **Fibers Appear Dim or Uneven:**
  - Check if the fiber optic bundle is fully inserted into the light engine's connector.
  - Ensure no fibers are sharply bent or damaged, which can impede light transmission.
  - Adjust the brightness setting via the remote or app.

- **Cigarette Lighter Power Cable Not Connecting:**

- Ensure the cable is fully inserted into both the light engine and the vehicle's cigarette lighter socket.
- Check the vehicle's fuse for the cigarette lighter socket.
- If the connection feels loose, ensure it is the correct adapter for your light engine.

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## 8. WARRANTY AND SUPPORT

### 8.1 Product Warranty

The AZIMOM LED Bluetooth 16W RGBW Fiber Optic Star Ceiling Kit comes with a **2-year warranty** from the date of purchase, covering manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

### 8.2 Customer Support

For further assistance, technical support, or warranty inquiries, please contact AZIMOM customer service through the retailer where you purchased the product or visit the official AZIMOM website for contact information.



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