

TORCHSTAR XO1DJDL-6D13WSWHT30-4P

TORCHSTAR 6-Inch Gimbal LED Recessed Light Instruction Manual

Model: XO1DJDL-6D13WSWHT30-4P

Brand: TORCHSTAR

1. INTRODUCTION

This manual provides detailed instructions for the safe installation, operation, and maintenance of your TORCHSTAR 6-inch Gimbal LED Recessed Lights. Please read this manual thoroughly before installation and retain it for future reference.

The TORCHSTAR 6-inch Gimbal LED Recessed Light is a 13.5W, IC-rated, air-tight, dimmable canless downlight designed for various indoor applications. It features a directional swivel head and provides 3000K warm white illumination.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Disconnect power at the fuse or circuit breaker before installation or servicing.

- Always turn off the main power supply before beginning any electrical work.
- Installation must be performed by a qualified electrician in accordance with all local electrical codes.
- Do not install this fixture with wet hands or while standing on wet or damp surfaces.
- Ensure all connections are secure and properly insulated.
- This product is IC Rated, meaning it is suitable for direct contact with insulation.
- The air-tight design helps prevent air leakage, contributing to energy efficiency.
- Do not modify the fixture in any way.
- Operating temperature range: -13°F to 113°F (-25°C to 45°C).

Free to Install Anywhere

Don't Let Electrical Boxes or Ceiling Joists Limit Your Creativity



Figure 2.1: Illustration of the IC Rated and Air Tight design, showing how the fixture can be in direct contact with thermal insulation and how airtight foam seals prevent air and dust entry.

3. PACKAGE CONTENTS

Each package contains the following items:

- TORCHSTAR 6-inch Gimbal LED Recessed Light(s)
- Junction Box (integrated)
- Accessories (e.g., wire nuts, mounting clips)
- Installation Template

4. SPECIFICATIONS

Feature	Specification
Brand	TORCHSTAR
Model Number	XO1DJDL-6D13WSWHT30-4P
Color Temperature	Warm White (3000K)

Feature	Specification
Wattage	13.5 Watts
Brightness	800 Lumens
Voltage	120 Volts (AC)
Material	Iron, Aluminum
Light Fixture Form	Recessed
Installation Type	Recessed Mount
IC Rating	Yes (Suitable for direct contact with insulation)
Air Tight	Yes
Dimmable Range	10%-100% (Dimmer not included)
CRI	90+
Beam Angle	100°
Rotation (Horizontal)	355°
Rotation (Vertical)	30°
Lifespan	50,000 hours
Certifications	ETL, JA8, T24 Listed
Item Dimensions (L x W x H)	7.22"L x 7.22"W x 2.59"H
Cut-out Hole Size	5.91 inches (150 mm)

PRODUCT DIMENSION

Cut-out hole size: 5.91"



Figure 4.1: Detailed product dimensions, including the required cut-out hole size of 5.91 inches (150 mm).

5. INSTALLATION INSTRUCTIONS

Follow these steps for proper installation. Ensure power is disconnected before starting.

- 1. Prepare the Ceiling:** Using the provided template, cut a hole of 5.91 inches (150 mm) diameter in the ceiling at the desired location.
- 2. Connect Wiring:** Open the junction box cover. Connect the household electrical wires (live, neutral, ground) to the corresponding terminals inside the junction box. Ensure all connections are secure. Use appropriate cable connectors for the knockouts (not included).
- 3. Insert Junction Box:** Place the wired junction box through the cut-out hole into the ceiling.
- 4. Connect LED Panel:** Connect the cable from the LED light fixture to the junction box. Ensure the connection is firm.
- 5. Secure Fixture:** Squeeze the spring clips on the sides of the LED fixture and push the light into the ceiling hole. The clips will hold the fixture securely in place.
- 6. Restore Power:** Once all fixtures are installed and secured, restore power at the circuit breaker.

INSTALLATION INSTRUCTIONS

1. Hole diameter: 5.91 inch (150 mm)



2. Insert the j-box into the ceiling



3. Connect the LED panel with j-box



4. Squeeze snap springs and push the light into ceiling



Figure 5.1: Visual guide for the installation process, from cutting the hole to securing the light in the ceiling.

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Video 5.1: An official video demonstrating the installation and features of the TORCHSTAR 6-inch Gimbal LED Recessed Light. This video shows the ease of installation and the rotatable light heads.

6. OPERATING INSTRUCTIONS

Your TORCHSTAR Gimbal LED Recessed Light offers flexible lighting control:

- **Directional Lighting:** The light head can be rotated 355° horizontally and tilted 30° vertically. Gently adjust the inner light module to direct the light beam as desired.
- **Dimmable Functionality:** This fixture is 10%-100% dimmable. Use a compatible LED dimmer switch (not included) to adjust the brightness level according to your preference.
- **Color Temperature:** This model provides a warm white light at 3000K, ideal for creating a cozy and inviting atmosphere.

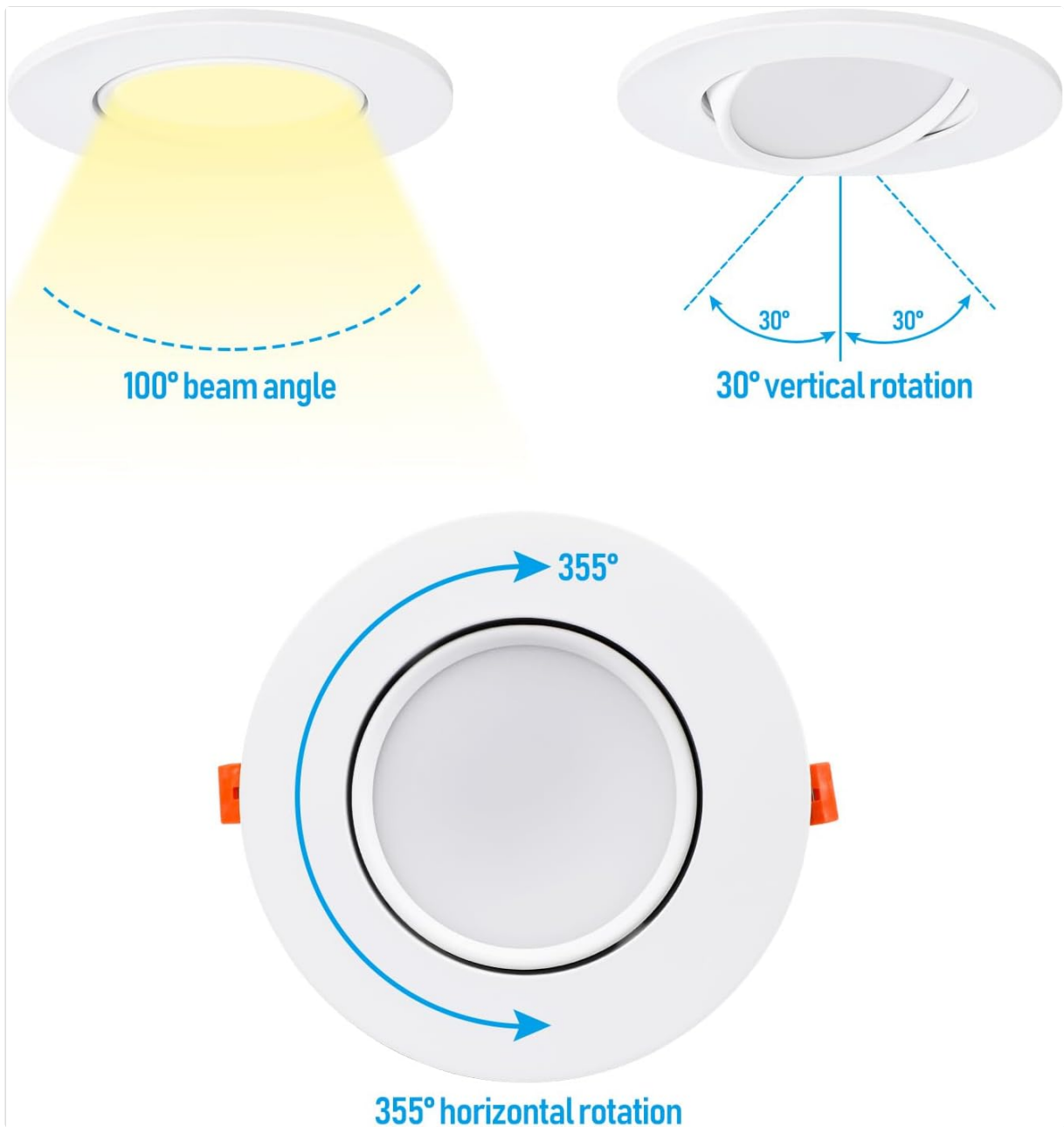


Figure 6.1: Illustration of the light's adjustable features, including 355° horizontal rotation and 30° vertical tilt, allowing for precise light direction.

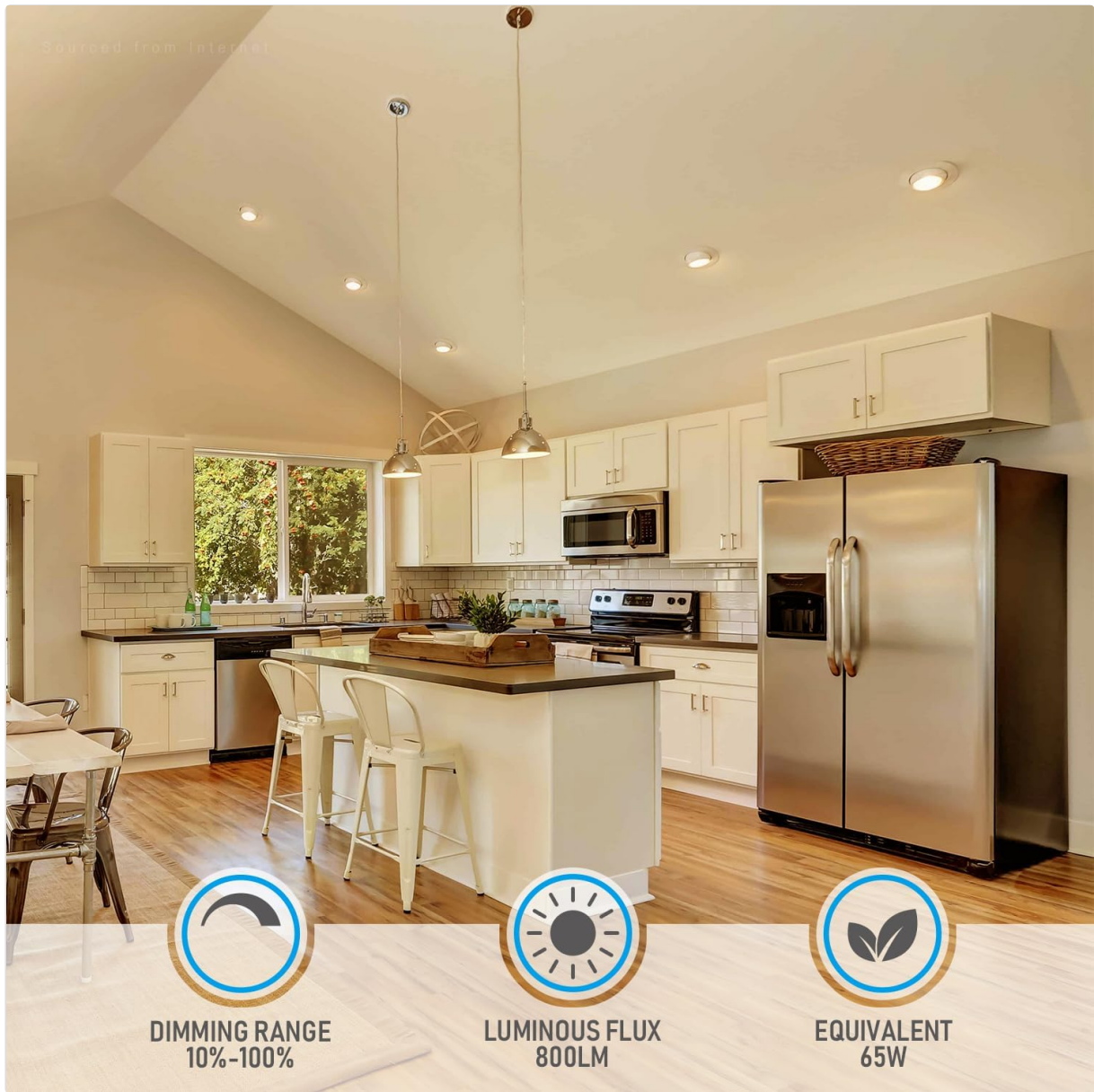


Figure 6.2: Key operating specifications: 10%-100% dimming range, 800 lumens output, and energy efficiency equivalent to a 65W incandescent bulb.



Figure 6.3: Visual comparison demonstrating the superior color rendering (CRI90+) of the TORCHSTAR light compared to CRI80, showing more vibrant and true colors.

7. MAINTENANCE

These LED recessed lights require minimal maintenance.

- **Cleaning:** Ensure the power is off before cleaning. Wipe the fixture with a soft, dry, or slightly damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Bulb Replacement:** The LED light source is integrated and not user-replaceable. The fixture has a long lifespan of approximately 50,000 hours.
- **Inspection:** Periodically check for any loose connections or damage. If any issues are found, consult a qualified electrician.

8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Light does not turn on	No power supply; Loose wiring connection; Faulty fixture.	Check circuit breaker and wall switch. Verify all wire connections. If problem persists, contact customer support.
Light flickers or dims inconsistently	Incompatible dimmer switch; Loose wiring; Overloaded circuit.	Ensure dimmer is LED compatible. Check wiring. Reduce load on circuit.
Light is too dim or too bright	Dimmer setting; Incorrect wattage for application.	Adjust dimmer to desired level. Confirm light output meets room requirements.

9. WARRANTY AND SUPPORT

TORCHSTAR provides a **3-year warranty** for this product, covering defects in materials and workmanship from the date of purchase. This warranty protects your rights and benefits.

For technical support, warranty claims, or any questions regarding your TORCHSTAR product, please contact our customer service team. Refer to the contact information provided with your purchase or visit the official TORCHSTAR website.

Manufacturer: TORCHSTAR

UPC: 676753041821