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## Brightever XD180-04

# Brightever 7-Inch Motion Sensor LED Ceiling Light (Model XD180-04) Instruction Manual

Your guide to installation, operation, and maintenance.

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Brightever 7-Inch Motion Sensor LED Ceiling Light, Model XD180-04. This hardwired flush mount fixture features a motion sensor, selectable color temperatures, and adjustable timer settings, designed for various indoor applications.

## 2. SAFETY INSTRUCTIONS

- **WARNING:** Always turn off the power at the circuit breaker before beginning any electrical installation.
- Consult a qualified electrician if you are unsure about the installation process.
- Ensure all electrical connections are secure and comply with local electrical codes.
- Do not attempt to modify the fixture. Any modifications may void the warranty and create a safety hazard.
- This fixture is designed for indoor use. While moisture resistant, avoid direct exposure to heavy water spray.
- Keep children away from the installation area.

## 3. PACKAGE CONTENTS

Verify that all components are present before installation:

- Brightever 7-Inch Motion Sensor LED Ceiling Light (2 units for 2-pack)
- Mounting Hardware (screws, wire nuts)
- Instruction Manual (this document)

## 4. PRODUCT FEATURES

- **Integrated Motion Sensor:** PIR sensor with 120° detection angle and 6.5-13 ft range.
- **3 Lighting Modes:**
  - **Always On:** Light remains on (controlled by wall switch).
  - **Motion-Activated Always:** Activates with motion regardless of ambient light.
  - **Dark-Activated:** Activates with motion only in low light conditions.
- **3 Color Temperatures:** Selectable via DIP switch (2700K Warm White, 4000K Natural White, 6500K Cool White).
- **3 Timer Settings:** Adjustable illumination duration after motion ceases (30s, 60s, 120s).
- **Energy Efficient:** 15W LED, 1200 Lumens output, designed for long lifespan (30,000+ hours).
- **Durable Construction:** Made from Acrylonitrile Butadiene Styrene (ABS) material.
- **Eye-Caring:** Designed for flicker-free illumination with a high CRI (Color Rendering Index) of 90+.
- **Protection:** Moisture resistant, dustproof, and mosquito proof design.

## 5. SETUP AND INSTALLATION

Please follow these steps carefully. Ensure power is off at the circuit breaker before starting.

1. **Turn Off Power:** Locate your circuit breaker and turn off the power to the area where you will install the light fixture. Verify power is off using a voltage tester.
2. **Fix Mounting Bracket:** The mounting bracket is located on the back of the light fixture. Remove it. Securely attach the mounting bracket to the ceiling junction box using the provided screws.



Figure 5.1: Attaching the mounting bracket to the ceiling.

3. **Select Settings (Before Wiring):** Before connecting wires, slide the DIP switches on the back of the light fixture to your desired color temperature (2700K, 4000K, or 6500K), lighting mode (Always On, Motion-Activated Always, or Dark-Activated), and illumination duration (30s, 60s, or 120s). These settings are difficult to change after installation.



Figure 5.2: Adjusting DIP switches for color temperature, lighting mode, and timer.

4. **Connect Wires:** Connect the household electrical wires to the light fixture wires using the provided wire nuts. Typically, connect black to black (live), white to white (neutral), and green or bare copper to green (ground). Ensure connections are tight and secure.
5. **Install Light to Base:** Align the light fixture with the mounting bracket and twist or push to secure it into place. Ensure it is firmly attached and flush with the ceiling.



Figure 5.3: Securing the light fixture to the mounting bracket.



Figure 5.4: Completed installation of the ceiling light.

6. **Restore Power:** Turn the power back on at the circuit breaker. Test the light fixture to ensure proper operation based on your selected settings.

## Installation Video Guide

Your browser does not support the video tag.

Video 5.1: A step-by-step guide demonstrating the installation process for the 7-inch motion sensor ceiling light.

## 6. OPERATING INSTRUCTIONS

The Brightever Motion Sensor LED Ceiling Light offers versatile operation through its adjustable settings.

### 6.1 Lighting Modes

Select one of three lighting modes using the dedicated switch on the fixture (set during installation):

- **Always On (ON):** The light functions as a standard ceiling light, controlled by your wall switch. The motion sensor is bypassed.
- **Motion-Activated Always (Sun Icon):** The light will turn on when motion is detected, regardless of ambient light levels (day or night). It will turn off after the set duration if no further motion is detected.

- **Dark-Activated (Moon Icon):** The light will only turn on when motion is detected in low light conditions (e.g., at night or in a dark closet). It will turn off after the set duration if no further motion is detected.



Figure 6.1: Overview of the three selectable lighting modes.

## 6.2 Color Temperature Selection

Choose your preferred light color from three options using the color temperature switch (set during installation):

- **2700K (Warm White):** Provides a cozy and inviting ambiance.
- **4000K (Natural White):** Offers a balanced and clear illumination, suitable for most tasks.
- **6500K (Cool White):** Delivers bright, crisp daylight-like illumination for enhanced visibility.



Figure 6.2: Selecting the desired color temperature.

### 6.3 Timer Settings

Adjust how long the light remains on after motion is no longer detected using the timer switch (set during installation):

- **30 Seconds:** Light turns off 30 seconds after motion stops.
- **60 Seconds:** Light turns off 60 seconds after motion stops.
- **120 Seconds:** Light turns off 120 seconds after motion stops.



Figure 6.3: Adjustable timer settings for illumination duration.

## 6.4 Motion Sensor Operation

The PIR motion sensor detects movement within a 120° angle and a range of 6.5 to 13 feet. For optimal performance, ensure the sensor is not obstructed. The light will activate when motion is detected and remain on for the selected duration, resetting the timer with continuous motion.



Figure 6.4: Motion sensor detection range and angle.

## 7. MAINTENANCE

To ensure the longevity and optimal performance of your Brightever LED Ceiling Light, follow these simple maintenance guidelines:

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry, or slightly damp cloth to wipe the surface of the fixture. Avoid abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or electrical components.
- **Inspection:** Periodically check the fixture for any signs of damage, loose connections, or wear. If any issues are found, turn off power and consult a qualified electrician.
- **No User-Serviceable Parts:** The LED components are integrated and not user-replaceable. Do not attempt to open the fixture beyond what is required for installation.

## 8. TROUBLESHOOTING

If you encounter issues with your Brightever LED Ceiling Light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on.	No power; loose wiring; incorrect mode selection; faulty fixture.	Check circuit breaker. Verify wire connections. Ensure correct lighting mode is selected (e.g., not in Dark-Activated mode during daylight). If issues persist, contact support.
Motion sensor not working or light stays on/off.	Incorrect mode selection; sensor obstructed; constant motion; electrical surge damage.	Ensure the correct motion-activated mode (Sun or Moon icon) is selected. Clear any obstructions from the sensor. Ensure there is no continuous motion in the detection area. If the sensor was damaged by an electrical event, contact support.
Light flickers or dims unexpectedly.	Unstable power supply; loose wiring; internal component issue.	Check household wiring and power stability. Ensure all connections are secure. This fixture is non-dimmable; do not connect to a dimmer switch. If flickering continues, contact support.
Difficulty mounting flush to ceiling.	Interference with internal switches; uneven ceiling surface.	Ensure the DIP switches are fully recessed and do not interfere with the ceiling surface. If necessary, use small spacers or ensure the ceiling opening accommodates the switch mechanism.

## 9. SPECIFICATIONS

Attribute	Detail
Model Name	XD180-04
Brand	Brightever
Product Dimensions	7" L x 7" W x 0.66" H
Item Weight	1.3 pounds
Power Source	Corded Electric
Voltage	120 Volts
Wattage	15 Watts
Brightness	1200 Lumens
Light Source Type	LED

Attribute	Detail
Color Temperatures	2700K, 4000K, 6500K Selectable
Switch Type	Motion Sensor
Motion Sensor Detection Angle	120°
Motion Sensor Detection Range	6.5-13 feet
Lifespan	30,000+ hours
Material	Acrylonitrile Butadiene Styrene (ABS)
Installation Type	Flush Mount
Indoor/Outdoor Usage	Indoor
Water Resistance Level	Moisture Resistant

## 10. WARRANTY AND SUPPORT

The Brightever 7-Inch Motion Sensor LED Ceiling Light comes with a Limited Warranty. For specific warranty details, please refer to the documentation included with your purchase or contact Brightever customer support.

If you require further assistance, have questions, or need to report an issue, please contact Brightever customer service through the retailer where the product was purchased or visit the official Brightever website for support contact information.