LEONLITE ZH3SCT-20WRSS30-WHT

LEONLITE Motion Sensor Flood Light User Manual

Model: ZH3SCT-20WRSS30-WHT

1. PRODUCT OVERVIEW

The LEONLITE Motion Sensor Flood Light is an outdoor lighting fixture designed for security and general illumination. It features adjustable dual LED heads, a motion sensor, and multiple operating modes. This manual provides instructions for installation, operation, and maintenance.

Image 1.1: Front view of the LEONLITE Motion Sensor Flood Light, showing its dual adjustable heads and integrated motion sensor.

Package Contents:

- LEONLITE Motion Sensor Flood Light
- Remote Control (for setting adjustments)
- Mounting Hardware (screws, wire nuts, gasket)
- User Manual

2. SAFETY INFORMATION

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

- Read all instructions carefully before installation.
- Ensure the power supply is 120V/60Hz AC.
- Installation should be performed by a qualified electrician if you are not familiar with electrical wiring.
- Do not attempt to modify the fixture.
- Ensure all connections are secure and properly insulated.
- This fixture is rated for outdoor wet locations.

3. INSTALLATION

This flood light is designed for flush mount, wall mount installation. No assembly is required for the light fixture itself.

Mounting Steps:

1. **Prepare the Installation Area:** Ensure the power is turned off at the circuit breaker. Select a suitable wall location for mounting.
2. **Attach Mounting Bracket:** Secure the mounting bracket to the junction box using the provided screws.
3. **Wire Connections:** Connect the fixture's wires to the household wiring (black to black, white to white, ground to ground) using wire nuts. Ensure connections are tight and insulated.
4. **Secure the Fixture:** Carefully align the fixture with the mounting bracket and secure it with the provided screws. Ensure the gasket is properly seated to maintain the waterproof seal.
5. **Adjust Light Heads and Sensor:** Loosen the adjustment screws on the light heads and motion sensor. Position them to cover the desired area. Tighten the screws once adjusted.

Image 3.1: Illustration of the flexible light heads and motion sensor, showing 360-degree rotation for light heads and 180-degree adjustment for the sensor.

What Makes Our Security Lights Outstanding?

Solidly-built housing, greater heat dissipation

Light reflector, higher lighting efficiency

Quality LED chips, better performance

Photocell

D2D · Test   MAX. · 10Ft
5' · Auto
TIMER   SENSITIVITY

Image 3.2: Technical drawing displaying the dimensions of the flood light: 6.1 inches (154.94mm) deep, 10.5 inches (266.7mm) wide, and 9.6 inches (243.84mm) high.

4. OPERATING INSTRUCTIONS

The flood light features a motion sensor with a 180° sensing angle and a maximum detection range of 60 feet. It offers four distinct operating modes, adjustable via the controls on the sensor or the included remote control.
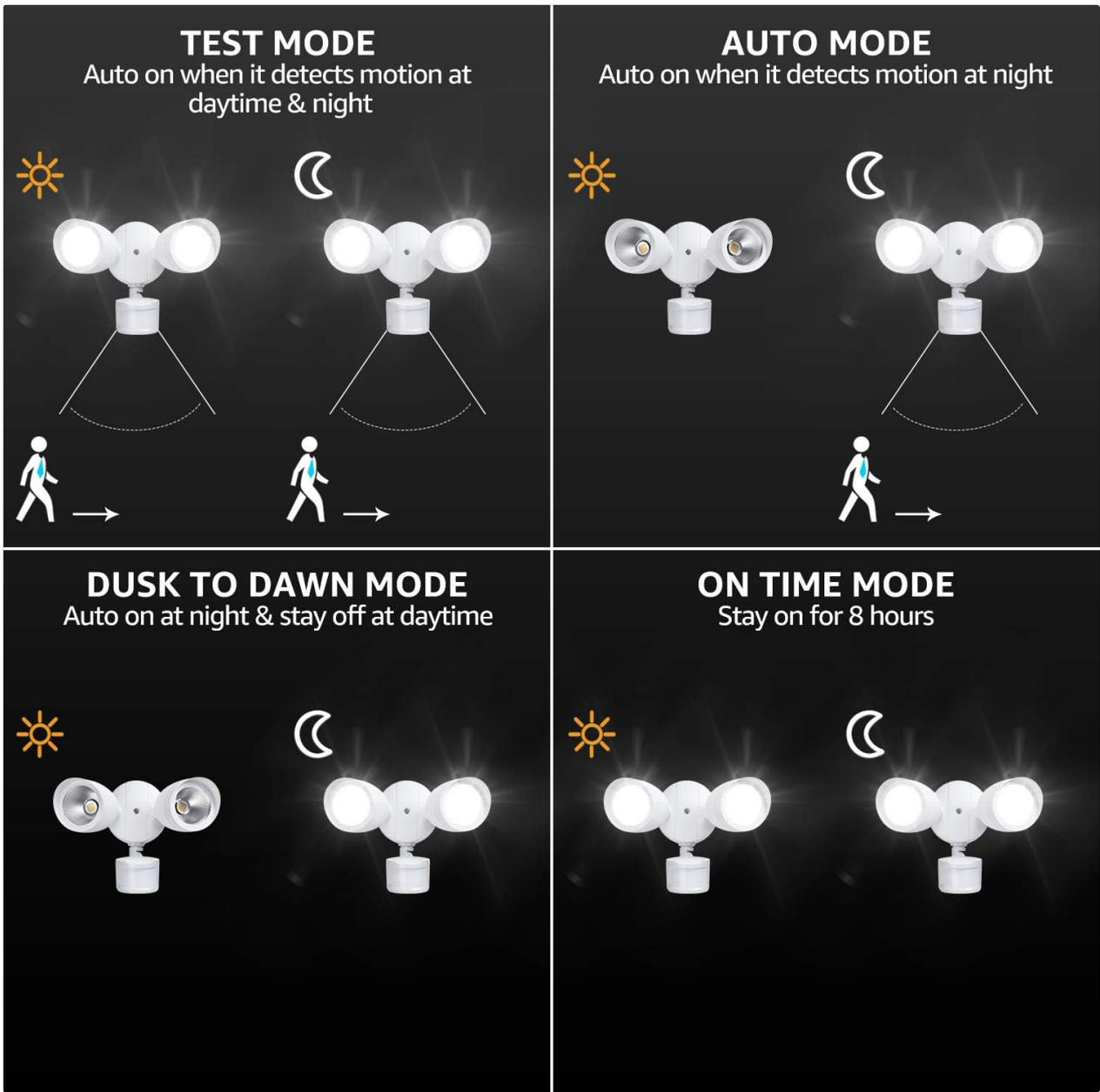
Image 4.1: Visual representation of the four operating modes: Test Mode, Auto Mode, Dusk-to-Dawn Mode, and On Time Mode (Manual Override).
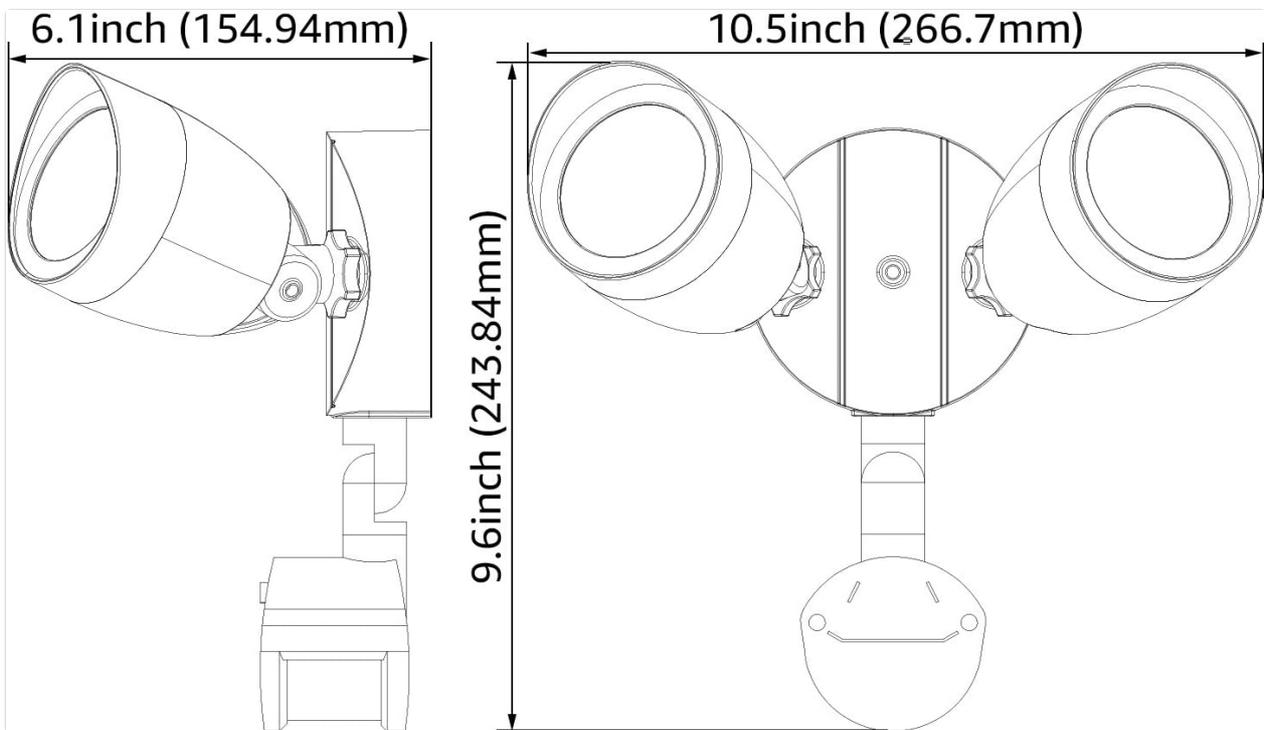
6.1inch (154.94mm)   10.5inch (266.7mm)

9.6inch (243.84mm)

Image 4.2: Close-up of the motion sensor unit, highlighting the timer and sensitivity adjustment dials, and the photocell.

Operating Modes:

- **Test Mode:** The light turns on automatically when motion is detected, regardless of ambient light conditions (day or night). It turns off approximately 5 seconds after no further motion is detected. This mode is useful for testing sensor coverage.
- **Auto Mode (Nighttime Operation):** The light activates when motion is detected during nighttime hours. It remains on for an adjustable duration (10 seconds to 5 minutes) and then turns off if no further motion is detected.
- **Dusk-to-Dawn Mode:** The light automatically turns on at dusk and remains on until dawn. Motion detection is bypassed in this mode.
- **Manual Override Mode (On Time Mode):** When in Auto Mode at night, or if activated manually, the light can stay on continuously for up to 8 hours. After 8 hours or at dawn, the light automatically reverts to Auto Mode.

Adjusting Settings:

- **Time Setting:** Use the "TIMER" dial on the motion sensor to adjust how long the light stays on after motion detection in Auto Mode (from 10 seconds to 5 minutes).
- **Sensitivity Setting:** Use the "SENSITIVITY" dial to adjust the motion sensor's detection range. A higher setting increases the range up to 60 feet. Note that this adjustment may be coarse rather than fine.
- **Photocell:** The integrated photocell detects ambient light levels to determine day/night operation for Auto and Dusk-to-Dawn modes.
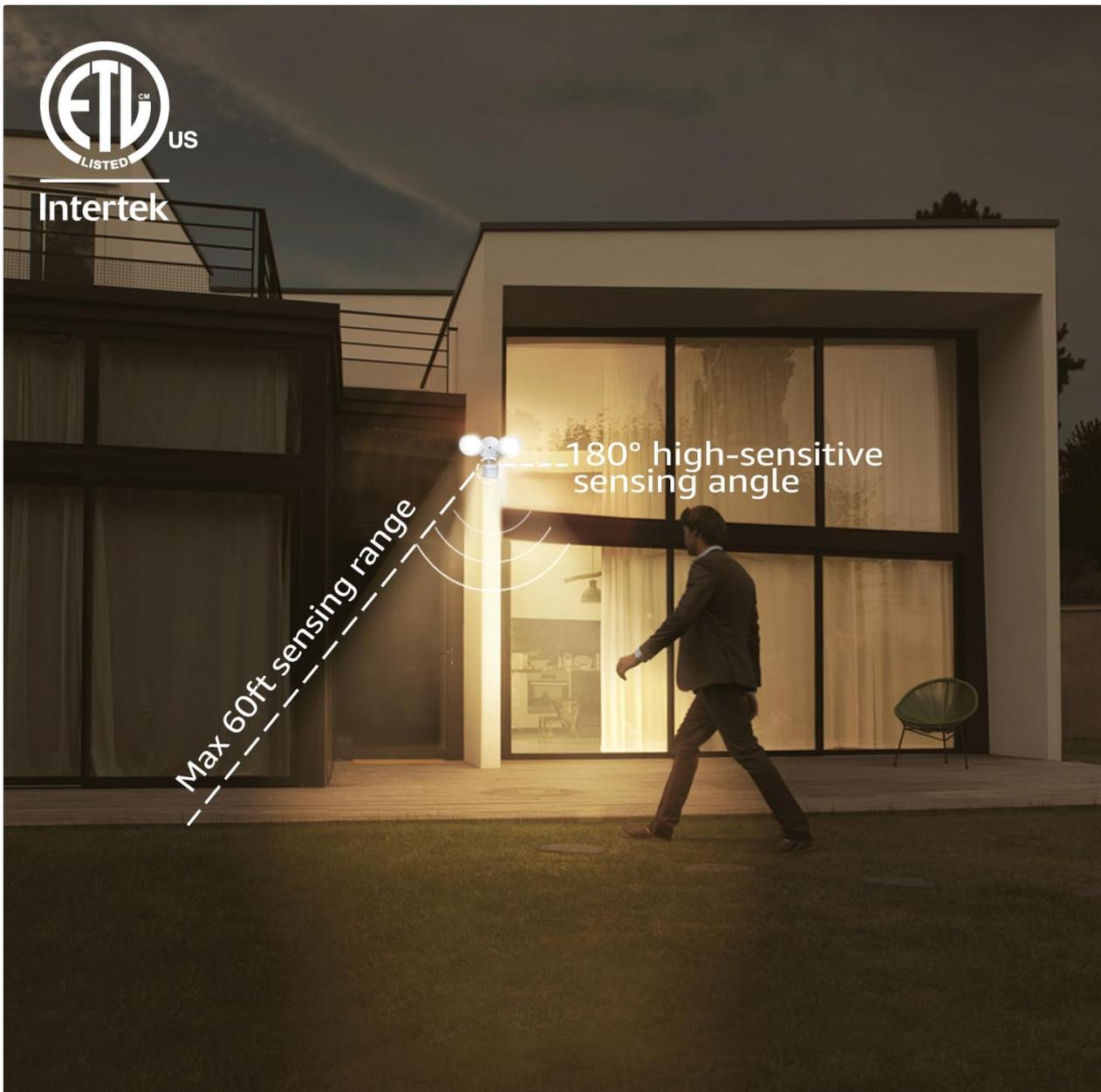
Image 4.3: Diagram illustrating the motion sensor's 180-degree high-sensitive sensing angle and maximum 60-foot detection range.

5. MAINTENANCE

The LEONLITE Motion Sensor Flood Light is designed for long-term, low-maintenance operation with a lifespan of up to 50,000 hours.

- **Cleaning:** Periodically clean the fixture with a soft, damp cloth to remove dirt and debris. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the fixture for any signs of damage to the housing or wiring.
- **Weather Resistance:** The fixture has an IP65 waterproof rating and is suitable for wet locations, operating in temperatures from -4°F to 104°F.

Image 5.1: Depiction of the flood light operating effectively in rainy conditions, highlighting its weather-resistant design and suitability for wet locations.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Light does not turn on.	- No power supply. - Incorrect wiring. - Photocell detecting too much ambient light (in Auto/Dusk-to-Dawn modes). - Motion sensor not detecting movement.	- Check circuit breaker and power connections. - Verify wiring connections are secure. - Ensure the photocell is not obstructed and it is dark enough for operation. - Adjust motion sensor sensitivity and angle. Test in Test Mode.

Problem	Possible Cause	Solution
Light stays on continuously.	• Manual Override Mode is active. • Constant motion detected. • Sensor malfunction.	• Check mode settings; the light should revert to Auto Mode after 8 hours or at dawn. • Adjust sensor angle or sensitivity to avoid detecting unwanted movement. • Contact customer support if the issue persists.
Light flashes or flickers.	• Loose wiring connection. • Power fluctuations. • Fixture malfunction.	• Turn off power and check all wiring connections. • Consult an electrician if power fluctuations are suspected. • Contact customer support.

7. SPECIFICATIONS

Model Number	ZH3SCT-20WRSS30-WHT
Power Source	AC 120V / 60Hz
Wattage	20 Watts
Luminous Flux	1400 Lumens
Light Color Temperature	3000K Warm White
Motion Sensor Angle	180°
Motion Sensor Range	Max 60 ft
Time Setting	10 seconds - 5 minutes
Operating Temperature	-4°F to 104°F (-20°C to 40°C)
Water Resistance Rating	IP65 (Wet Location)
Lifespan	50,000 hours
Dimensions (L x W x H)	6.1" x 10.5" x 9.6"
Material	Metal (Aluminum finish)
Certifications	ETL Listed, UL, Energy Star

8. WARRANTY AND SUPPORT

Warranty:

This LEONLITE Motion Sensor Flood Light is covered by a **3-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
The warranty does not cover damage caused by improper installation, misuse, abuse, accidents, or unauthorized modifications.

Related Documents - ZH3SCT-20WRSS30-WHT

	LeonLite LED Motion Security Light User Manual User manual for the LeonLite LED Motion Security Light, covering installation, operation, and warranty information. Includes safety warnings and product specifications.
	LeonLite 5W Waterproof Deck Light User Manual | Installation, Specifications, and Troubleshooting User manual for the LeonLite 5W Waterproof Deck Light, providing detailed installation instructions, package contents, technical specifications, troubleshooting guide, and warranty information. Essential for proper setup and maintenance of your outdoor lighting.
	LeonLite LITEdge LED Wall Light User Manual - Installation and Specifications Comprehensive user manual for the LeonLite LITEdge LED Wall Light, including installation guides, safety instructions, troubleshooting, specifications, and warranty information.
	LeonLite LITEdge 4-Light Smart Ceiling Fixture User Manual and Quick Start Guide Comprehensive guide for the LeonLite LITEdge 4-Light Smart Ceiling Fixture, covering features, installation, app pairing, troubleshooting, and frequently asked questions. Learn how to set up and use your smart lighting solution.
	LeonLite LED Motion Security Light User Manual User manual for the LeonLite LED Motion Security Light, covering installation, operation, and warranty information. Includes safety warnings and product specifications.
	Bright LED Garage Canopy Light: Specifications, Features, and Installation Guide Comprehensive guide to the Bright LED Garage Canopy Light, including features, lighting parameters, photometric data, installation instructions, and safety precautions. Available in 30W, 50W, 75W, and 100W.