

ASSEMBLY AND INSTALLATION INSTRUCTIONS

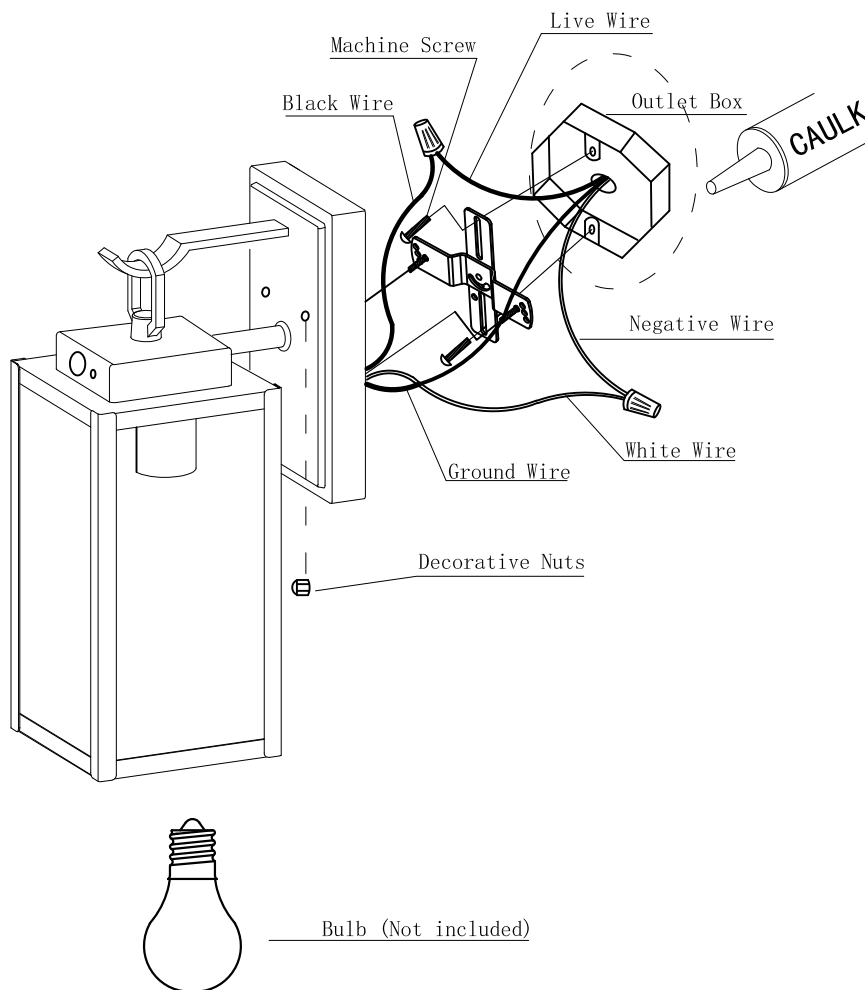
CAUTION: Read Instructions carefully and turn electricity off at main circuit breaker panel before beginning installation.

WARNING-If any Special Control Devices are used with this Fixture, Follow the instructions Carefully to assure full compliance with N.E.C. requirements. If there are any questions, contact a Qualified Electrical Contractor.

WARNING -This product contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm. Thoroughly wash hands after installing, handling, cleaning, or otherwise touching this product.

CAUTION - All glass is fragile, use care when handling Glass component(s) and or Lamp(s).

WARNING -To comply with the National Electrical Code and Underwriters Laboratories requirements, when installed outdoors, or in wet locations, the edge of the wall plate coming in contact with the mounting surface, must be sealed with a latex waterproof caulking to prevent water from entering the outlet box.



1. Attach the mounting plate to the outlet box by using two mounting screws.
2. Pull out the wires and grounding wire from the outlet box. Make wire connections using the wire nuts, as follow:
 - Connect the hot wire(usually black insulation)from the fixture to the black wire from the power source.
 - Connect the neutral wire(usually white insulation)from the fixture to the white wire from the power source.
 - Attach the fixture grounding wire(usually green insulation or bare wire)to the mounting strap with the green grounding screw. Then connect it to the house grounding wire with the wire nut.Carefully put the wires back into the outlet box.
3. Attach the back plate to the mounting plate by inserting the screws, then secure it with two nuts.

CAUTION: With silicone caulking compound, caulk completely around where the back plate meets with the wall surface to prevent water from seeping into the outlet box.

Turn on the power at fuse or circuit box.

Dual-Brightness PIR Motion Sensor Light

User Manual

1. Product Introduction

This product is a 120° wide-angle PIR motion sensor with dual-brightness standby function. It supports dual control systems: simple operation via wall switch and precise adjustment via remote control. The light maintains low dim standby brightness at dusk and switches to full brightness instantly when human motion is detected. It automatically dims or turns off after a preset delay. This sensor is widely suitable for outdoor lighting of yards, corridors and doorways.

2. Power-On Warm-Up Instruction

After power is applied, the device will automatically warm up for 15 seconds. No operation is valid during the warm-up period. Once completed, the sensor will enter a 2-minute test mode automatically.

3. Four Basic Working Modes (Wall Switch Universal)

3.1 Test Mode (For Installation Debugging Only, Lasts 2 Minutes)

Works day and night regardless of ambient light level:

- No motion detected: 40% low standby brightness
- Motion detected: Instantly switches to 100% full brightness
- 5 seconds after motion stops: Automatically returns to dim brightness
- The red indicator on the sensor flashes once upon motion detection
- Sensor will automatically switch to Auto DIM mode after 2 minutes.
- **Note:**When operating in Test mode, there are two ways to set the sensor to Auto ECO mode:
 - 1.Toggle the wall switch OFF-ON twice within 3 seconds to enable Auto ECO mode.
 - 2.First, restore the sensor to factory default settings by pressing the Reset button on the remote control. Then press the ECO/DIM button once to switch the sensor to Auto ECO mode.The red indicator light on the sensor will flash once a remote command is sent successfully.

3.2 Auto DIM Mode (Factory Default, Night Only)

Activates automatically when ambient light falls below the trigger threshold:

- No human activity: Maintains 40% low dim brightness for night guidance
- Motion detected: Instantly switches to 100% high brightness
- 2 minutes after motion stops(or set your preferred delay time via the remote control): Returns to 40% dim standby brightness
- Turns off completely 10 seconds after sunrise under sufficient daylight

3.3 Auto ECO Mode (No Standby Dim Light)

Two methods to switch the sensor from Auto DIM Mode to Auto ECO Mode

- Press the ECO/DIM button on the remote control to activate Auto ECO Mode, the light bulb will turn off immediately. At night, the light will switch to full brightness when motion is detected. Press the ECO/DIM button again to enter Auto DIM Mode. The bulb will light up at 40% brightness. At night, the light will switch to full brightness once motion is detected. The red indicator light on the sensor will flash once the remote signal is sent successfully.
- Toggle the wall switch OFF-ON twice within 3 seconds to enable Auto ECO Mode. Repeat the operation to switch back to Auto Dim mode.

Auto ECO Mode function: At night, the light turns on at full brightness when motion is detected and turns off automatically 2 minutes after people leave, with no standby dim light.

Note: If you cannot switch between Auto ECO Mode and Auto DIM Mode, restore factory default before retrying operation.

3.4 Manual Override Mode (8-Hour Constant ON, Night Only)

Under Auto ECO Mode or Auto DIM Mode, toggle the wall switch OFF-ON once within 2 seconds in night. The light will stay fully on continuously for 8 hours and automatically release the lock at sunrise to restore normal sensor mode.

Note: Keep the wall switch ON at all times during normal use. If power is cut off for more than 10 seconds, the device will restart the 15-second warm-up process.

4. Wall Switch Quick Operation Guide

Operation Method	Function
1 switch toggle within 2 seconds (OFF→ON)	Activate 8-hour manual override mode
2 switch toggles within 3 seconds (OFF-ON×2)	Toggle Auto DIM / Auto ECO Mode
3 switch toggles within 5 seconds (OFF-ON×3)	Restore full factory default settings

5. Installation & Usage Instructions

- Best Installation Height:** Install at 6~8 feet above the ground. At 77°F ambient temperature, the maximum detection distance can reach 25 feet (See Fig.1).
- Detection Range:** 120° wide sensing angle (See Fig.2).
- Sensing Feature:** Lateral movement across the detection zone is more sensitive than movement directly toward the sensor (See Fig.3).
- Environment Requirements:** Keep away from air conditioning vents, heating equipment, street or sidewalk traffic, reflective mirrors and external light sources to avoid false triggering.
- Note:** Sensor input power must not be wired to dimmer.

FIG. 1

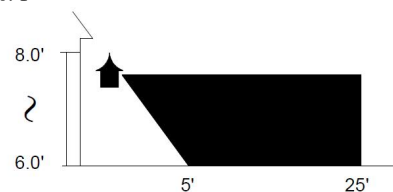


FIG. 2

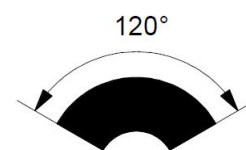
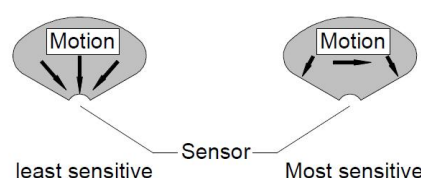
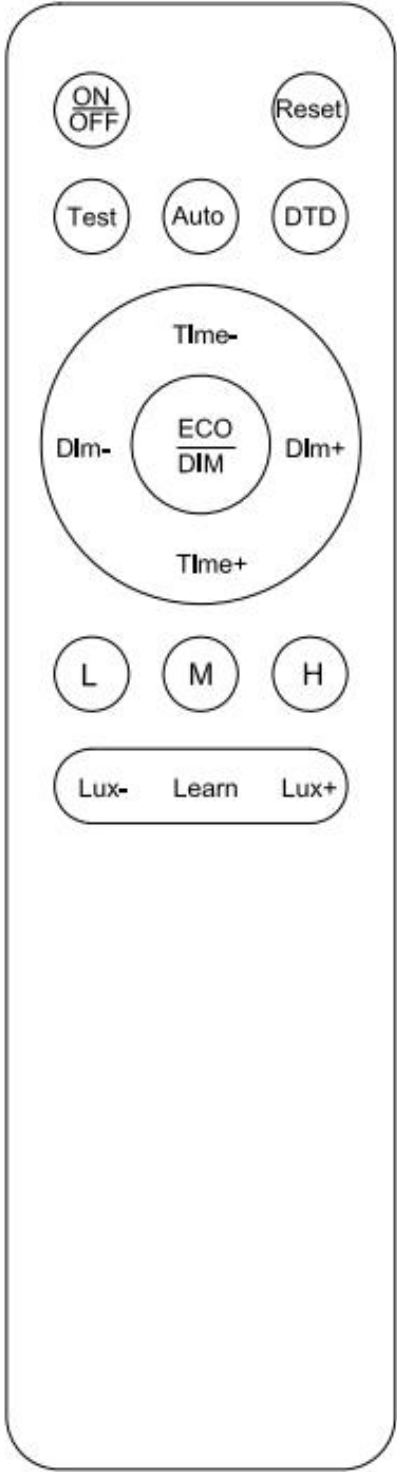


FIG. 3



6.Remote Control Button Function

This is an infrared remote control with an operating range of approximately 20 feet. The red indicator light on the sensor will flash once a remote command is sent successfully.

Remote Control Setting	Button	Function Description
	ON/OFF	Press ON/OFF to enter ON mode (Force the light to stay on); Press ON/OFF again to enter OFF mode and disable all functions. Supports power-off memory.
	Reset	Restore factory defaults (Auto Dim mode, 2-minute delay, 40% standby brightness, 50LUX trigger sensitivity, maximum detection distance).
	Test	Full-day test mode; brightness switches 5 seconds after motion stops.
	Auto	Night-only sensing mode, supports Auto ECO / Auto DIM mode switching.
	DTD	Light on at night, completely off in daytime.
	Time- Time+	Adjust motion delay time from 1 to 10 minutes (1-minute adjustment per press).
	ECO/DIM	Switch between Auto ECO mode and Auto DIM mode.
	Dim_ Dim+	Working brightness: Adjust 50%~100% (10% change per press) Standby dim brightness: Adjust 20%~50% (10% change per press) in Auto DIM mode
	L M H	L/M/H: Three-level sensing distance adjustment L: 3 meters (low sensitivity) M: 6 meters (medium sensitivity) H: 9 meters (high sensitivity, factory default)
	Lux_ Lux+	Lux+ / Lux-: Five-level light trigger threshold adjustment (15LUX ,50LUX,100LUX,200LUX,300LUX)
	Learn	Learn: Press and hold for 3 seconds to automatically calibrate the current ambient light as the trigger threshold.

7. Troubleshooting

Symptom	Possible Causes	Solutions
Light does not turn on in test mode	Power off, loose wiring, circuit breaker off	Turn on the switch / breaker; check and fasten all wire connections.
Light does not activate upon motion at night	Bulb damaged / loose; strong light hitting light sensor; This light fixture's power supply is wired to a TRIAC dimmer.	Tighten or replace the bulb; block external strong light; remove triac dimmer.
Light stays at 100% brightness continuously	Heat source interference, such as street or sidewalk traffic, a heater or dryer vent, or air conditioning vent, or heated swimming pool.; triac dimmer used	Remove nearby heat sources; relocate fixture; remove triac dimmer.
Light turns on accidentally without motion	Heat or reflective interference; triac dimmer used	Relocate the light away from heat sources and reflective objects; remove triac dimmer.
Light turns on too early at dusk	Installed in shaded areas (eaves, porch) blocking natural light	Adjust installation position to ensure natural light reaches the sensor ; Lower the light trigger threshold using the remote control.
LED / fluorescent bulb flickers in Auto DIM mode	Non-dimmable bulbs used; poor bulb compatibility; triac dimmer used.	Replace with dimmable LED / incandescent bulbs; use high-quality branded bulbs; remove dimmer.
Standby brightness is too bright in Auto DIM mode	Poor compatibility of low-quality dimmable bulbs	Replace with high-quality branded dimmable bulbs; Use the remote control to lower standby brightness.
Light remains on after sunrise	Light sensor is shaded and cannot detect daylight	Adjust installation position to ensure natural light reaches the sensor

8. Important Notes

- All switch and remote operations are invalid during the 15-second power-on warm-up. Please set after warm-up is completed.
- **Do not use with triac dimmers**, which will cause flickering and functional failure.
- Only compatible with **dimmable LED, incandescent and dimmable fluorescent bulbs**. Ordinary non-dimmable LED bulbs will cause strobing issues.
- Load Rating:Max.60 Watts Incandescent ; or Max 30W dimmable LED bulb.