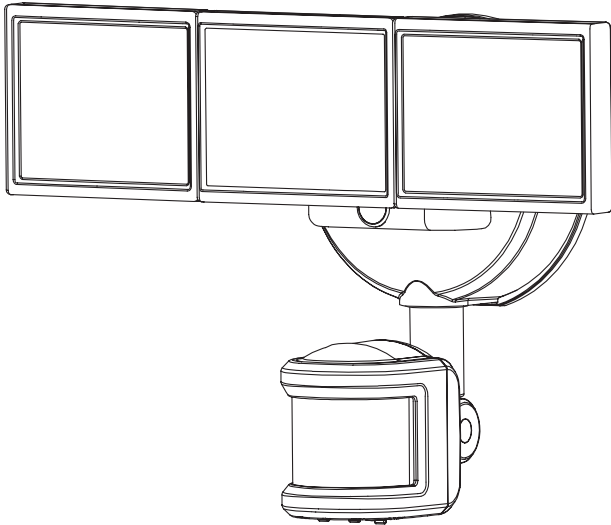# MOTION ACTIVATED
LED SECURITY FLOODLIGHT

Model: AEC-5340AB3

USE INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS:

• To reduce the risk of death, injury to persons or property damage from fire, electric shock, falling parts, cuts/abrasions and other hazards read all warnings and instructions included with and on the fixture box and all fixture labels.
• Before installing, servicing or performing routine maintenance upon this equipment, follow these general precautions.
• It is recommended that a qualified licensed electrician perform all wiring connections. The electrical system and the method of electrically connecting his fixture to it must be in accordance with the National Electrical Code and local building codes.
• Do not mount the unit against flammable surfaces.
• The motion detector will not operate properly if it is installed:
  -Near the outlet of a central heating boiler
  -Near an air conditioning unit
  -Pointing directly at moving vehicles
  -Near another light that is shining its light, or causing a reflection, on the motion detector.
• This fixture cannot be used with a dimmer switch, motion or occupancy sensor, and other electronic switching devices unless otherwise designated. LED fixtures must be powered directly off a switch circuit.
• This fixture should not be used in areas with limited ventilation or high ambient temperatures.
• This fixture is intended to be connected to a properly installed and grounded NEC compliant outlet box.
• The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

WARNING: RISK OF ELECTRICAL SHOCK

• Turn OFF the main power at the fuse or circuit breaker before installing the light fixture or making any electrical connection.
• This fixture is designed for use in a 120VAC, 60Hz fuse circuit.
• Make sure this light fixture is adequately grounded. To ensure proper grounding, there must be a separate ground wire (bare copper) contact between this light fixture and the ground connection of your main power supply panel.
Do not connect the bare or green insulation fixture ground wire to the black (hot) current-carrying wire or the white (neutral) wire. Connection of the bare or green fixture ground wire to the black or white wires may cause metal parts of the fixture to carry electrical currents, and may cause electrical shock, which could cause serious injury or death.
• Do not connect this fixture to an electrical system that does not provide a means for equipment grounding. Never use a fixture in a two-wire system that is not grounded. Installing a fixture into an electrical system not having a proper grounding could cause metal parts of the fixture to carry electrical currents if any of the fixture wires, wire connections, or splices were to become broken, cut, or loose during the mounting or normal operation of the fixture. Under this condition, anyone coming in contact with the fixture would be subject to electrical shock, which could cause serious injury or death.

CAUTION: RISK OF PRODUCT DAMAGE

- Never connect components under load.
- Do not mount or support these fixtures in a manner that can cut the outer jacket or damage wire insulation.
- Avoid covering LED fixtures with insulation, foam, or other material that will prevent convection or conduction cooling.
- Never connect an LED product directly to dimmer packs, occupancy sensors, timing devices or other related control device, unless individual product specifications deem otherwise.
- Do not exceed fixture's maximum ambient temperatures.
- LED products are Polarity Sensitive. Ensure proper polarity before installation.
- Electrostatic Discharge (ESD) can cause damage to LED fixtures. Personal grounding equipment must be worn during all installation or servicing of the unit.
- Do not tamper with or attempt to repair the LED component or fixture. The light source is designed for this specific application and should not be serviced by untrained personnel. Contact the customer service department if any servicing is required.

CAUTION: RISK OF INJURY

- Wear gloves and safety glasses at all times when removing fixture from carton, installing, servicing or performing maintenance.
- Avoid direct eye exposure to the light source while it is on. LED LAMPS ARE EXTREMELY BRIGHT. UNDER NO CIRCUMSTANCES SHOULD YOU STARE INTO AN LED BEAM, THIS MAY CAUSE IRREPARABLE DAMAGE TO THE EYE.
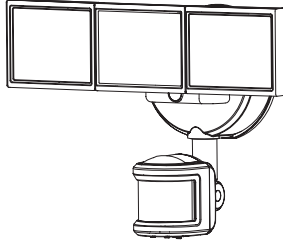- Account for small parts and destroy packaging materials, as these may be hazardous to children.

WARNING: RISK OF BURN

- Allow fixture to cool before handling. Do not touch enclosure of light source.
- Do not exceed the maximum wattage marked on the label.
- Keep combustible and other materials that can burn away from the luminaries, fixture and lamp/lens.

PACKAGE CONTENTS:

Please lay out all parts and read the instructions prior to installation.

PA

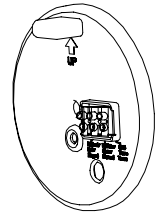1 x Motion Activated LED Security Floodlight
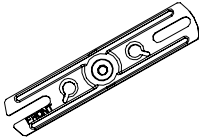
Installation Kit:
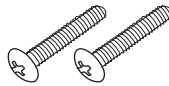
PB
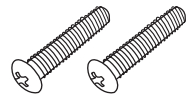1 x Mounting Bolt

PC
1 x Decorative Cover

PD
1 x Mounting Plate

PE
1 x Mounting Bracket
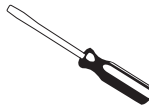
PF
2 x #6 Outlet Box Screw

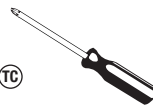PG
2 x #8 Outlet Box Screw
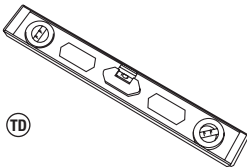
Tools Needed (not included)
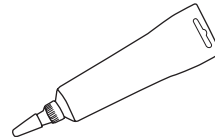
TA
Safety Glasses

TB
1/8" Straight Blade Screwdriver
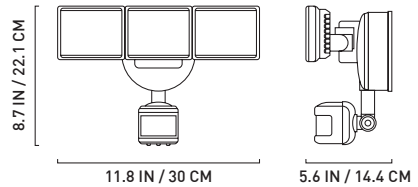
TC
#2 Phillips-Head Screwdriver

TD
Level

TE
Silicone Sealant

PRODUCT SPECIFICATIONS:

1. Operating Voltage: 120 Vac, 60 Hz
2. Wattage: 42 W
3. Light Output: 3000 lumens
4. Color Temperature: 5000 K
5. LED Life Cycles: up to 50,000 hours
6. Operating Temperature: -20°C to 40°C / -4°F to 104°F

8.7 IN / 22.1 CM

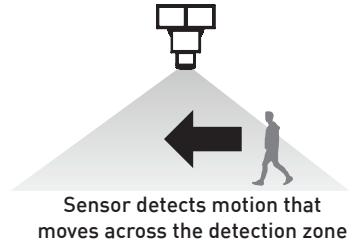11.8 IN / 30 CM   5.6 IN / 14.4 CM

INSTALLATION PROCEDURES:

Before beginning assembly of the product, make sure all parts are present. Compare parts with package contents list. If any part is missing or damaged, do not attempt to assemble the product.

Estimated assembly time: 30 minutes.

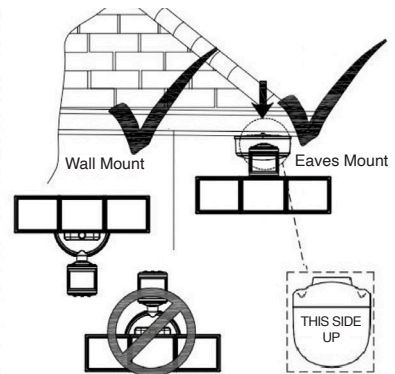Sensor detects motion that moves across the detection zone

Note: It is recommended that a qualified licensed electrician perform all wiring connections. The electrical system and the method of electrically connecting this fixture to it must be in accordance with the National Electrical Code and local building codes.

- Install the motion sensor between 6.2 ft / 1.9 m and 9.8 ft / 3 m above the ground. Motion sensor is less sensitive above 9.8 ft / 3 m.
- Mount sensor away from heat producing sources to prevent false triggering. Be very careful not to include objects such as windows, white walls and water in the detection zone.
- Mount fixture away from moving objects such as trees and street traffic.
- Suitable for wall mounting or eave mounting.

MOUNTING LOCATIONS

- Determine the mount location, such as a wall or eaves
- The motion sensor needs to be on the bottom and the light should have "THIS SIDE UP" facing upwards.
- Position the triple-head LEDs in the general direct of the desired light coverage.
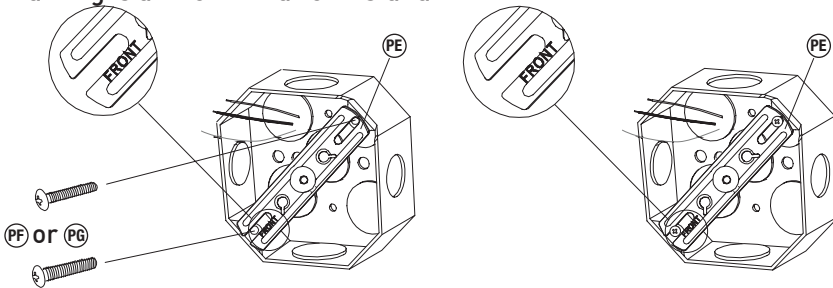- If needed, lift the motion sensor up and down so the control faces downward after installation.

Wall Mount   Eaves Mount

THIS SIDE UP

Note: Do not mount this Security Floodlight on the ground. Important notes:
1. Environmental temperature affects the sensor range. It is recommended not to mount the fixture near a heat source like an air conditioner, vent or furnace exhaust, or in a direction facing a light reflecting object.
2. The sensor will be more sensitive to motion across its detection path than motion coming directly towards it.
3. For best performance, gently clean the lens with a soft cloth every two months to assure maximum sensitivity.

INSTALLATION

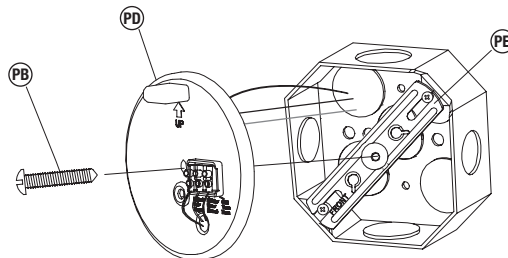WARNING: Risk of electric shock. Disconnect power at fuse or circuit breaker before installing or servicing.

STEP 1. INSTALLING THE MOUNTING BRACKET

Line up the holes on the Mounting Bracket ⓅⒺ with the holes on your outlet box. Using the two Mounting Screws ⓅⒻ or ⓅⒼ fit the outlet box. Ensure the 'FRONT' marking is at the front after installation.
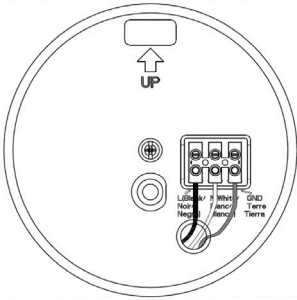

STEP 2. INSTALLING THE MOUNTING PLATE

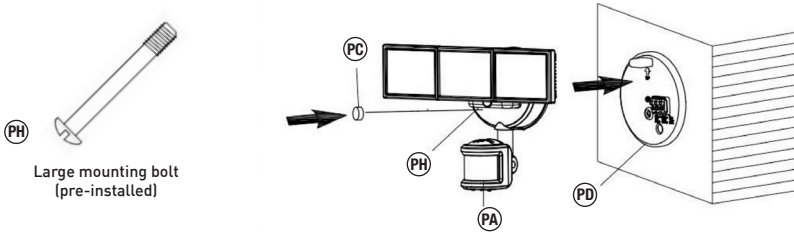CAUTION: Do not cut any wires with factory installed wire connectors or remove the wire connectors.

- Take the outlet box wires through the hole in the Mounting Plate ⓅⒹ.
- Place the Mounting Plate ⓅⒹ against the outlet box.
- When mounting to a wall, the "UP" arrow must point upward.
- When mounting to eaves, the "UP" arrow must point toward the building.
- Insert the Mounting Bolt ⓅⒷ through the mounting plate ⓅⒹ hole in the middle, and Mounting Bracket ⓅⒺ hole. Tighten the Mounting Bolt ⓅⒷ securely.
- Firmly pull on the Mounting Plate ⓅⒹ to verify it is securely attached to the Mounting Bracket ⓅⒺ.
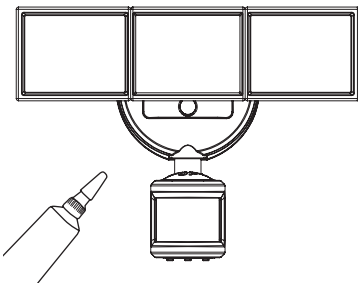
STEP 3. MAKING THE ELECTRICAL CONNECTIONS

- Insert the outlet box wires into the bottom of the terminal block.
- Insert the white wire from the outlet box into the terminal marked "N (White)".
- Insert the black wire from the outlet box into the terminal marked " L (Black)".
- Insert the green ground wire from the outlet box into the terminal marked "GND".

STEP 4. MOUNTING THE SECURITY FLOODLIGHT

Large mounting bolt
(pre-installed)

- Align the bottom edge of the Security Floodlight ⒫ with the bottom edge of the Mounting Plate ⒫. Tilt the Security Floodlight ⒫ toward the Mounting Plate ⒫, making sure the Security Floodlight ⒫ is centered on the Mounting Plate ⒫ .
- Tighten the Large Mounting Bolt ⒫ securely through the center of the Mounting Plate ⒫. Do not overtighten.
- Push the Decorative Cover ⒫ firmly into the mounting bolt hole on the Security Floodlight ⒫.
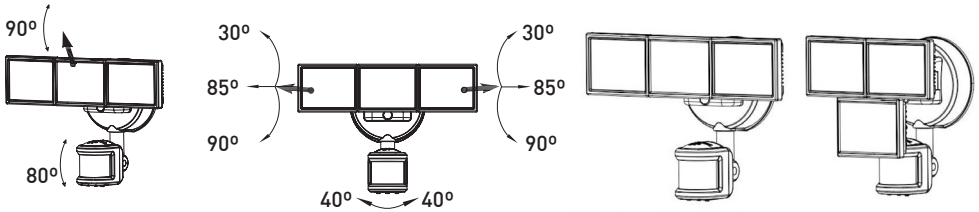
STEP 5. CAULKING AROUND THE SECURITY FLOODLIGHT

- Apply caulking around the Mounting Plate ⒫ and mounting surface with silicone sealant (not included).

Note: If you install this light fixture on the covered wall or eave without a outlet box, you must use the appropriate screws (not included) to install this light fixture on the covered wall or eave directly depending on the surface (replaces ⒫ or ⒫).

OPERATION

1. ADJUSTING THE LED LAMP-HEADS

• Adjust the lamp up and down with range of around 45 degrees. You may adjust the lamp left and right with range of around 25 degrees to get the desired lamp direction.
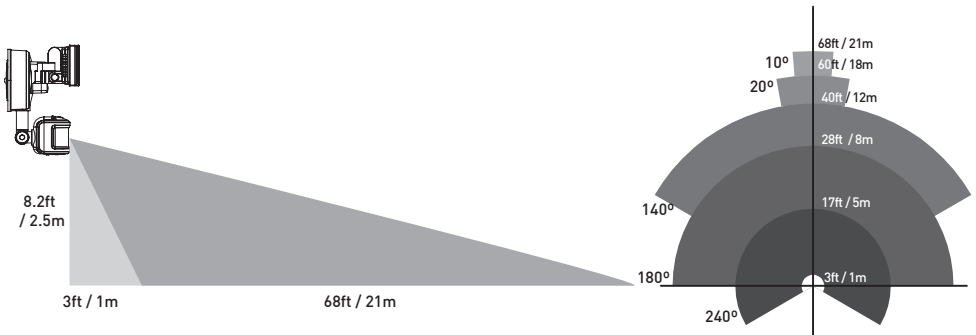

• The lamp-heads can be adjusted to horizontal style or "T" style.

Note: LED LAMPS ARE NON-REPLACEABLE. Do not attempt to access / maintain the LEDs; they are non-replaceable and any contact may damage the LEDs and will void the warranty.

2. ADJUSTING THE DETECTOR

• The Blue LED Light will flash to show that the PIR motion sensor is functioning properly.
• After installing your Security Floodlight, you are ready to set /aim the motion detector.
• Detection Range: around 68 ft / 21 m x 240 degrees (Max)
• 68 ft / 21 m detection range, it upon on ambient temperature 25°C / 77°F.
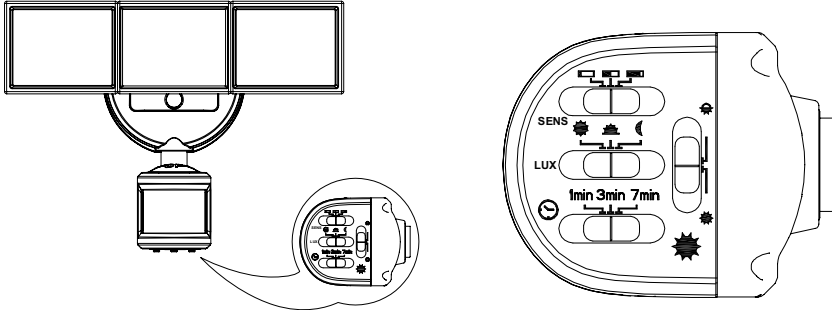• Adjust the sensor head horizontal for long coverage.

Note: When you first install your Security Floodlight, you must aim the detector head to cover the desired area.
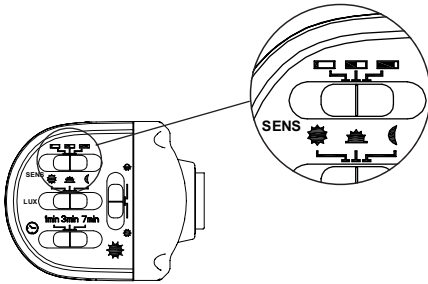
3. ROTATING THE SENSOR CONTROLS DOWNWARD

Rotate the motion sensor so the controls face toward the ground.

Sensor Detection Range (SENS) Switch
Adjust the SENS setting to adjust range of Passive Infrared(PIR) Motion Sensor
- Slide the "SENS" switch toward the ⊏ (low) position for short detection range.
- Slide the "SENS" switch toward the ⊏ (middle) position for middle detection range.
- Slide the "SENS" switch toward the ⊏ (high) position for long detection range.
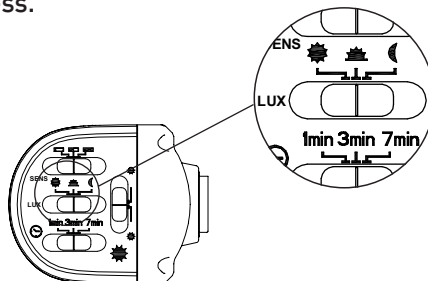

The higher the "SENS" setting (sensitivity), the greater the possibility of false triggering. To reduce false triggering, suggest to slide the "SENS" switch toward the ⊏ (low) setting if you don't need long detection distance while using this light.

Dusk Level / Ambient Light sensor (LUX) Setting
This setting is used to control when the security light will be activated relative to the ambient natural light.
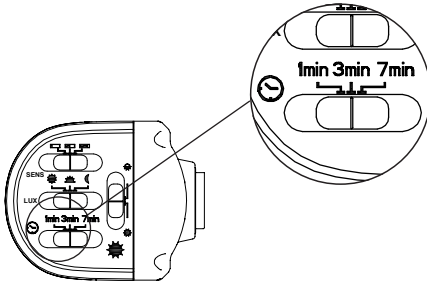- When sliding the "LUX" switch toward the ☀ position, the light will turn on in the daylight, during sunset, or in darkness.
- When sliding the "LUX" switch toward the ⛰ position, the light will turn on during sunset or in the darkness.
- When sliding the "LUX" switch toward the ☾ position, the light will only turn on in the darkness.

Time Setting 🕐
This setting is used to control the time span of how the long Security Floodlight remains on when motion is detected.
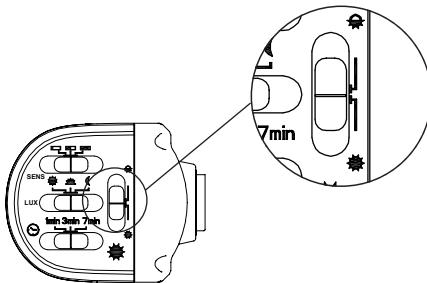• Set the "TIME" switch to the 1,3 or 7 minute position.
• The Security Floodlight will stay on as long as motion is detected and will go off after the time span you set when no motion is detected.
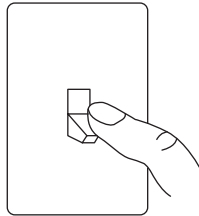

Brightness Setting ☀
This setting is set the brightness of light.
• When sliding the "Bright" switch toward the ☀ position, the light will be a high lumen output.
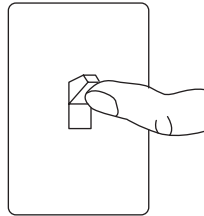• When sliding the "Bright" switch toward the ☀ position, the light will be a low lumen output.

4. MANUAL OVERRIDE FUNCTION

- When power is on, the PIR sensor enters a "warm-up" period for about 40 seconds, then automatically switches into AUTO MODE.
- During AUTO MODE, by switching the main switch OFF for about 1 second then ON, the PIR sensor will automatically change into MANUAL MODE from AUTO MODE. In MANUAL MODE, the lights will remain ON, and will NOT be controlled by time duration or ambient light (LUX) levels. The MANUAL MODE will change to AUTO MODE in 6 hours automatically.
- During MANUAL MODE, by switching the main switch OFF over 30 seconds then back ON again, the PIR sensor will reset to the "warm-up" period.

Turn the switch
OFF for 1 second

Turn the switch
back ON

CARE AND CLEANING:

- To prolong the original appearance, clean with clear water and a soft, damp cloth only.
- Do not use paints, solvents, or other chemicals on this light fixture. They could cause a premature deterioration of the finish. This is not a defect in the finish and will not be covered by the warranty.
- Do not spray with a hose or power washer.

TROUBLESHOOTING:

PROBLEM	POSSIBLE CAUSE	SOLUTION
The light will not come on.	The light wall switch is turned off.	Turn the light wall switch on.
	The fuse is blown or the circuit breaker is turned off.	Replace the fuse or ensure the circuit breaker is in the on position.
	Faulty wire connection.	Check wiring to ensure all wires are correctly wired and are wired securely.
	The detector is aimed in the wrong direction.	Re-aim the detector to cover the desired area.
The light comes on during the day.	The detector may be installed in a relatively dark location.	The light fixture is operating normally under these circumstances.
	The Ambient Light Sensor (LUX) level setting is wrong.	Adjust the Ambient Light Sensor (LUX) level setting to ☾ position.
	The light fixture is on Manual Override Mode.	Adjust the light fixture to Auto Mode (P.11).
The lights stay on continuously.	A bulb is positioned too close to the detector or pointed at nearby objects that cause heat to trigger the light detector.	Reposition the bulb away from the detector or nearby objects.
	The light fixture is on Manual Override Mode.	Adjust the light fixture to Auto Mode.
	The light fixture is on the same circuit as a motor, transformer, or fluorescent bulb.	Install the light fixture on a circuit without motors, transformers, or fluorescent bulbs. (Dedicated Circuit)
	Some home wires are not properly color coded.	Check for proper wiring.
The light comes on for no apparent reason	There is motion in the detection zone.	Make sure the detector is not picking up moving objects such as trees, traffic, etc. and re-aim the detector.
	The light fixture is wired through a dimmer or timer.	Do not use a dimmer or timer to control the light fixture. Replace the dimmer or timer with a standard on/off wall switch.