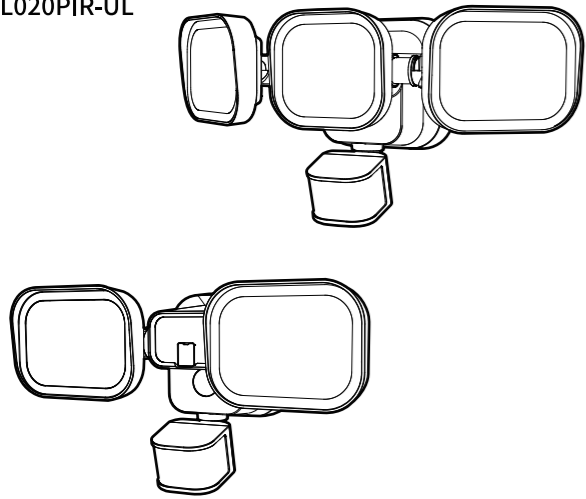


Motion Sensor Security Light

Model:  
SCL019PIR-UL  
SCL020PIR-UL



Important Information for Users

We sincerely thank you for purchasing our product. Prior to use, please carefully read this instruction manual to ensure proper and safe operation. After reading, please retain this manual for future reference.

This product does not guarantee the prevention of robbery, theft or burglary. In the unfortunate event that such incidents occur, our company assumes no responsibility whatsoever. Thank you for your understanding.

1 Safety Precautions

Before use, please carefully read this "Safety Precautions" and use it safely and correctly. In order to prevent harm to yourself, others, or damage to property, it is essential to adhere to the following instructions. We classify and explain the extent of harm and damage that may occur due to improper use.

	This warning indicates that failure to adhere to the precautions outlined may result in severe injury or death to individuals.		This warning indicates that failure to adhere to the precautions outlined may result in personal injury or property damage.
--	--	--	---

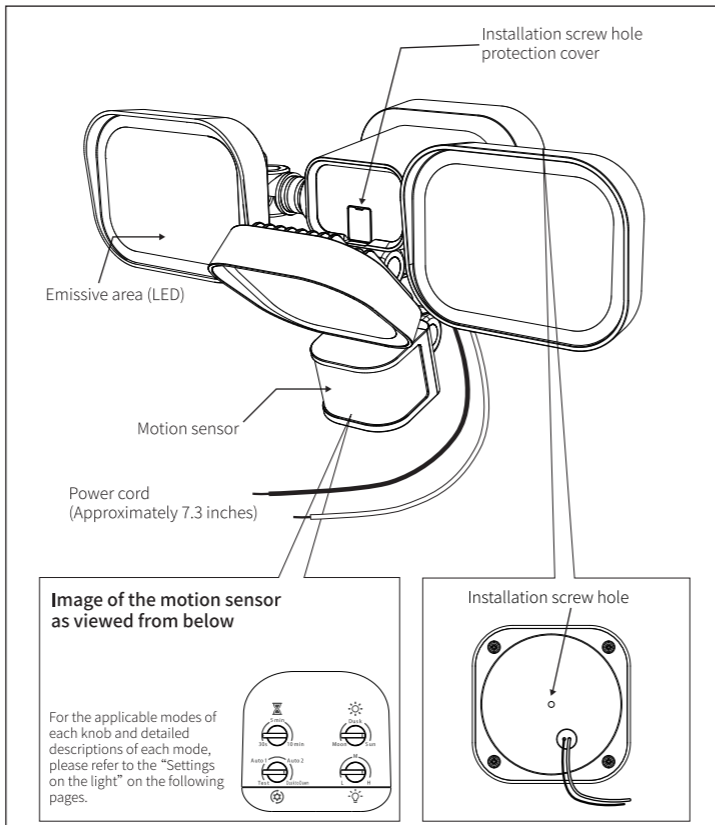
Warning

- Please follow this user manual for proper installation. Install in accordance with all local and national electrical codes. Consult a local licensed electrician or electrical contractor if you are not sure about the installation.
- Do not touch the fixture when the lamp is lit or after inspection, as the lamp and its surroundings may be overheated, which could cause burns. Additionally, do not install the fixture in locations where people can easily reach within 6 Ft.
- Do not install the fixture near flammable objects or ignition sources. Please be aware that even during the day, covering the fixture with bedding, clothing, etc., may cause it to light up and ignite, so please exercise caution.
- Do not cover the fixture with cloth or flammable materials, as this may cause a fire.
- Do not use this product with voltages other than 120V AC. Applying incorrect voltage may cause fire or electric shock.
- To avoid damaging your eyesight, do not stare directly at the illuminated light. Wear well-fitted safety glasses during the entire installation procedure.
- Do not wrap the power cord of other appliances around this lamp or use damaged power cords. Exposed or severed core wires may cause fire or electric shock.
- The waterproof design of this product complies with the IP65 protection rating standard. It is not fully waterproof, so do not immerse it in water.
- Ensure that the side of the motion sensor labeled "This side up" is facing upwards. Incorrect orientation may cause the motion sensor to malfunction. Additionally, ensure it is installed in a location where it will not cause an accident if it falls.
- When used outdoors, please use a rainproof junction box. If extension of the power cord is necessary, be sure to use a rainproof extension cord of 18 AWG or higher.
- When installing, cleaning, inspecting, or performing any maintenance, always disconnect the powersupply first. Failure to do so may result in electric shock accidents.
- If not used for an extended period, please disconnect the power supply.
- Please ensure that the copper wires at both ends of the wires are tightly twisted and securely fixed with wire connectors as required. Failure to comply with these instructions may result in electric shock or overheating leading to a fire.
- If any abnormalities are detected, please disconnect the power supply immediately. Continuing to use the product in the presence of smoke or unusual odors may lead to fire or electric shock. Additionally, attempting to repair the product yourself can be dangerous, so please consult the retailer or our company.
- Do not disassemble or modify. Also, do not use for purposes other than specified or use non-designated mounting parts.
- For use only in a circuit protected by a fuse or circuit breaker!
- Account for small parts and destroy packaging material, as these may be hazardous to children.

**Caution**

- Do not install near objects that generate high temperatures (such as gas appliances or their exhaust vents, air conditioner outdoor units).
- Do not wipe this product with gas oil, alcohol or thinner, and do not spray insecticide. This may cause discoloration, deformation, cracking and may also cause fire or electric shock.
- Do not install in unstable locations, as it may cause tipping over or fire. After installation, please make sure it is securely fixed.

2 Names and Accessories of Each Component



**Inside the box**

**Tools needed**

3 Precautions before Installation

**Sensors detect changes in brightness and temperature around them. When installed in the position shown in the figure below, interference may cause malfunctions or inactivity.**

Shake due to wind, close to plants or clothes etc.      Regions affected by the wind direction of outdoor air conditioning units.      Places such as marble or glass that are strongly reflected by light.

3 Precautions before Installation (Continued)

Places with streetlights or other lighting nearby      Places subjected to strong vibrations      Places through glass or walls

Places facing the road where cars pass by      Places extremely high or low

Dogs and cats also respond

Due to the characteristics of the sensor, please note the following points.

In summer, when the difference between the surface temperature of the human body and the surrounding temperature is small, not easy to detect.

Wearing too much in winter, and temperature checks when skin exposure is minimal, detection becomes difficult.

Moving in a straight line or slowly relative to sensor, it will make the detection sensitivity dull.

4 Installation

**WARNING: DO NOT ATTEMPT TO INSTALL FIXTURE WITH THE POWER ON. Ensure electricity is TURNED OFF at the main circuit breaker or fuse box. Verify that power is OFF at the junction box using the AC voltage tester before installation.**

Wall Mount      OR      Eave Mount

**Step 1: Attach the EVA waterproof pad**

**Step 2: Fix the hanging board to Junction box**

**Step 3: Temporarily secure the light fixture using cable tie.**

4 Installation (Continued)

**Step 4: Connect the wires (ensure the power is turned off before proceeding.)**

① Strip the wire insulation to expose about 10mm (0.39") of the copper core.      ② Twist two wires together

③ Insert the tightly twisted wires into the wire connectors and tighten      ④ Done

\*The light belongs to Class II, totally safe and comply with all the safety rules, no need connecting the extra ground wires.

**Step 5: Cut the Cable tie**

**Step 6: Open the screw hole protection cover**

**Step 7: Secure the light fixture to the hanging board**

**Step 8: Close the screw hole protection cover**

**Step 9: Waterproof reinforcement**

This light fixture complies with the IP65 waterproof rating. However, to prevent water from entering the junction box and causing risks such as electric shock or fire, it is strongly recommended to use silicone sealant to seal the gap between the light fixture and the junction box

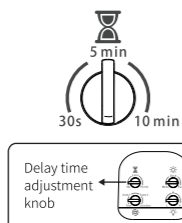
## 5 Settings on the Light

### Timer:

You can set the time from when the sensor stops detecting to when the light turns off.

Can be set and stepless adjusted from 30 seconds to 10 minutes.

\*If a person or animal continues to move within the sensor's detection range, sensor 1 will detect again and the lighting time will be extended.  
\*This setting is only effective in Auto 1 and Auto 2 modes (Not effective in Dusk to Dawn and Test modes).

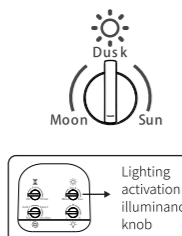


### Lux:

You can set the brightness level at which the sensor starts detecting.

[Moon] The light will Only turn on when at night.  
[Dusk] The light will turn on in the dim light of dusk. It will not turn on during bright times such as during the day.  
[Sun] The light will turn on even during the day.

\*This setting is only effective in Dusk to Dawn, Auto 1 and Auto 2 modes (Not effective in Test mode).



### Modes:

You can set the mode in which you want the light to operate.

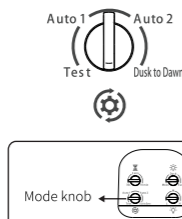
[Test] Used for adjustment during installation, turn on for 3 seconds as long as the sensor detects.  
[Auto 1] Turn on strong when sensor is detected ;Turn off after people leave.  
[Auto 2] The light will be dim at 5% brightness when the ambient brightness falls below the set level, It will brighten when motion is detected by the sensor: return to dim after people leave, Turn off when the ambient brightness exceeds the set level.  
[Dusk to dawn] Turn on when ambient brightness falls below the set condition : turn off when it exceeds

\*The Test mode is only used for adjusting the detection angle, detection distance, and light projection distance during installation, After installation, please switch to the normal mode.

\*The Test mode has a fixed delay time of "3 seconds" and a fixed activation illuminance of "Sun", both of which cannot be adjusted.

\*The Auto 2 mode has a fixed the "dim brightness" at 5% brightness and cannot be adjusted.

\*If set between two modes, it may lead to inaccurate mode detection, so please align the knob as align as possible with the desired mode for setting.

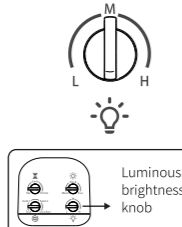


### Dimmable:

You can set the brightness when the light is on.

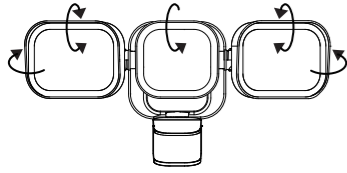
[L] The brightness of the fixture will be adjusted to around 10%  
[M] The brightness of the fixture will be adjusted to around 50%.  
[H] The brightness of the fixture will be adjusted to around 100%.

\*Can be steplessly adjusted from 10% brightness to 100% brightness.  
\*This setting is only effective in Dusk to Dawn, Auto 1 and Auto 2 modes (Not effective in Test mode).

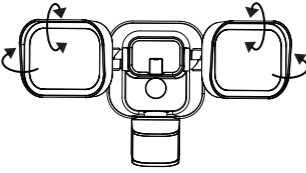


### Adjustment of irradiation direction

#### SCL019PIR-UL



#### SCL020PIR-UL



#### Central lamp head (Only SCL019PIR-UL)

Adjustable up to 100° upwards or 20° downwards.

#### Left side lamp heads

Adjustable up to 90° upwards or 180° downwards.

Adjustable up to 80° to the left.

#### Right side lamp heads

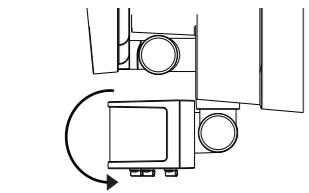
Adjustable up to 90° upwards or 180° downwards.

Adjustable up to 80° to the right.

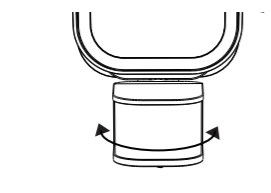
\*Please hold the base while adjusting  
\*Please do not adjust beyond the maximum angle.

### Adjustment of sensor detection direction

#### Side View



#### Face View



**Motion sensor**  
Adjustable up to 120° downwards.

Adjustable up to 180° to the left.  
Adjustable up to 90° to the right.

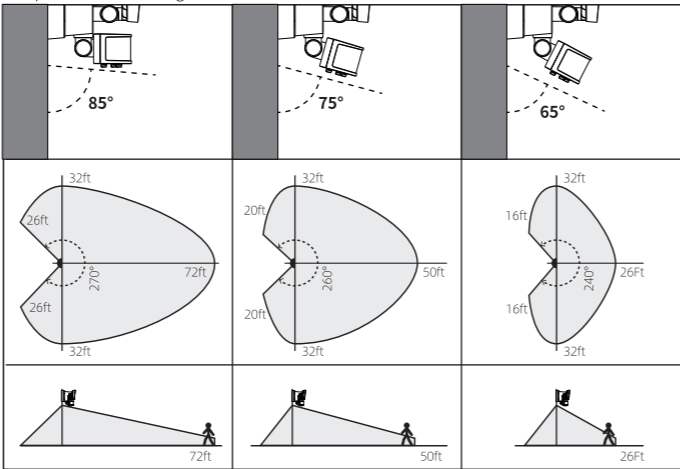
\*Please hold the motion sensor housing to adjust the angle.  
\*Please do not press the motion sensor lens, as it may cause deformation and affect the sensor's functionality.  
\*Please do not adjust beyond the maximum angle.

## 5 Settings on the light (Continued)

### Motion Sensor Angle and Distance

The detection range is the reference value. It varies greatly depending on temperature, clothing, movement speed, intrusion direction, body temperature, installation location, etc.

Temperature: 77°F , Height: 8ft



\*Standing directly below the lamp may not be detected.

\*The body is equipped with multiple sensors, so it is not possible to use plastic tape or other materials to reduce the detection range.

\*The detection range varies greatly due to the surrounding temperature, brightness, human body temperature, clothing, movement speed, and set height.

\*Especially in summer when there is a small difference between the body temperature and the surrounding temperature, it is difficult to detect when there is less exposure to human skin in winter (such as cold protection equipment).

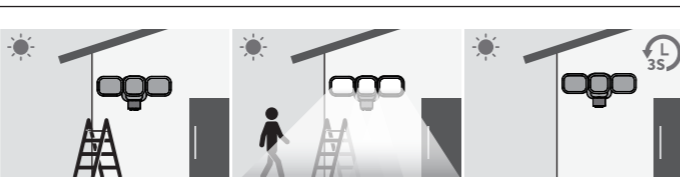
\*It can also detect heat sources other than humans, such as animals, air conditioners, and heaters.

\*A particularly strong heat source can be detected even outside the detection range. Even if someone is not moving, they may move extremely fast or may not be detected when the speed is slow.

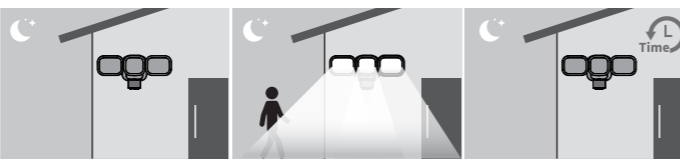
\*The movement in the linear direction relative to sensor is difficult to detect.

\*Here are potential reasons to change the installation location: Places where wind may cause plants or other objects to sway, areas near air vents from devices like air conditioners, spots where light reflects strongly, area where the sensor might be affected by glass or walls, locations experiencing significant vibrations, installation heights higher than 12 ft or lower than 5 ft. Busy roads or crowded areas, and spots where there are streetlights or other strong light sources directly shining onto the sensor.

## 6 Modes

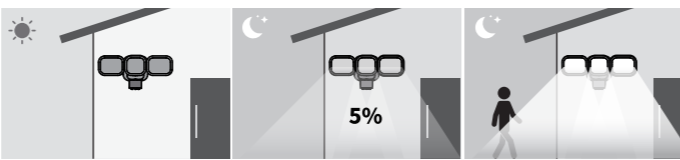


**Test:** Turn on for 3 seconds when the motion sensor is triggered.



**Auto1:** Turn on strong when motion is detected ;Turn off after no further motion is detected and reaching the delay time.

\*The triggering occurs only when the ambient brightness is below the set condition.



**Auto2:** Turn on at 5% brightness when the ambient brightness falls below the set condition. It will brighten when motion is detected by the sensor. Return to dim after people leave and reach the delay time. Turn off when the ambient brightness exceeds the set condition.

\*The triggering occurs only when the ambient brightness is below the set condition.

## 6 Modes (Continued)



**Dusk to Dawn:** Turn on when ambient brightness falls below the set condition, turn off when it exceeds.

\*Each trigger will keep the light on for 8 hours. After reaching this duration, it will briefly turn off for 1 second to check if the ambient brightness is still below the set condition. If it is, the light will continue to stay on for another 2 hours. This process repeats until the ambient brightness is above the set condition, at which point the light will turn off.

## 7 Trouble shooting

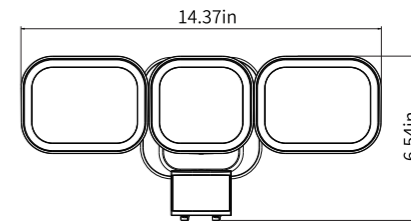
Problem	Possible Reasons	Handle
<b>The light is not on. (sensor is not responding)</b>	The power supply is not supplying power correctly.	Check the connection of the power cord and the power supply (circuit breaker) of the socket
	Moving in the direction of the sensor due to the characteristics of the sensor, the detection distance will be extremely short when approaching from the front direction.	Compared to the detection range of sensors, it is installed in places where the detection object (such as people) crosses. Or change the angle of the sensor.
	The surroundings are very bright. (Even at night, there are other lighting fixtures around)	Adjust the lighting start illumination to (daytime) on the side
	When it's cold or rainy, people are covered with scarves or umbrellas.	Change to places where other lighting fixtures cannot reach or where people install them.
	The temperature difference between the environment in summer and the human body is relatively small.	Adjust the installation position. Due to the fact that sensors can detect temperature changes caused by human actions, it may be difficult to detect in situations such as those on the left.
	Enter the detection range at a very slow speed.	
<b>Does not turn off when the light is on (sensor responds continuously)</b>	The detection range is obstructed. Glass, walls, and walls cannot detect human movement.	Change installation location
	The light is not installed correctly. Set at a higher position Set at a lower position Tilt setting	Please set the body vertically at a height of approximately 8ft.
	Is the lens of the detection sensor dirty or is there water droplets such as rainwater adhering?	Please wipe carefully with a slightly damp cloth and dry with a soft cloth.
	Start the time slot immediately after turning on the power. In order to ensure stable operation of the circuit, the light remains bright for about 10 seconds after the power is turned on.	Before the preheating time ends, please standby outside the detection range.
<b>Turn on the lights when nobody is around</b>	Some objects continue to react to sensor, the illumination time is extended, and the light remains on.	Outside the testing range after entering the house. Change the installation location.
	The lighting hold time is set to 10 min	Illumination hold time is 30 seconds. The knob adjusts to the other side.
	The reasons for the presence of false actions within or around the detection range are as follows. Objects shaken by the wind (trees, laundry, flags, etc.), animals such as dogs and cats, outdoor air conditioning units that blow warm or cold air, hot air from gas water heaters, strong wireless noise	Remove the cause of misoperation from the detection range.
<b>Even during the day, the lights are still on.</b>	The detection range covers the road and responds to passing cars and people.	Change the installation location.
	Due to wind and vehicle traffic, the pillars of the installation body vibrate.	Change the installation location to a location that is not affected by vibration.
	The "Mode" knob is turned to the "Dusk to Dawn" or "Auto 2" position	The knob adjusts to the other side.
<b>Flashing lights (repeatedly on or off)</b>	The "Lux" knob is turned to the "Sun" position.	The knob adjusts to the "Moon" side.
	There are obstacles reflecting light in the direction of the main body's illumination. The sensor detects reflected light and sometimes malfunctions.	Remove obstacles to reflected light.
<b>Even if the light is on, it will quickly disappear</b>	Set the lighting retention time to 30 seconds	Adjust the lighting holding time to 10 min.
	There are obstacles reflecting light in the direction of the main body's illumination. The sensor detects that the reflected light may cause misoperation.	Remove obstacles to reflected light

## 8 Specifications

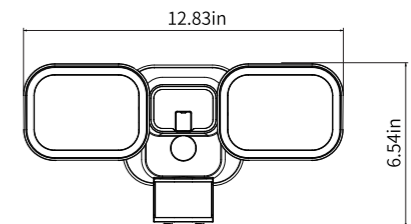
Model	SCL019PIR-UL	SCL020PIR-UL
Power requirements	120VAC, 60Hz	
Electrical load	40W	28W
Light on duration	30s-10min	
Lighting activation illuminance	15lx-day	
Lumens	500-6500lm	350-4500lm
Color Temperature	5000K	
Sensing Angle	up to 270°	
Sensing Range	0-72ft max	0-68ft max
Weight	1.87lb	1.6lb
Temperature	-20~40°C	
Waterproof	IP65	

## 9 Product size

### SCL019PIR-UL



### SCL020PIR-UL



## 10 Warranty policy

This product is guaranteed against failure due to factory defects in materials or workmanship for five (5) years from the date of purchase. This warranty is non-transferable and applies only to the original owner. Proof of purchase required for repair or replacement. This warranty does not cover normal wear of parts or damage resulting from many misuse of the product. Misuse of the product includes but is not limited to: using in extreme weather conditions, opening the housing of the product, or attempted remodel/alterations made to product.

**This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

"Please note that changes or modifications of this product is not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Manufacturer: Dawnrise Inc.  
Office Address & Customer Service Center: 21671 Gateway Center Dr, STE#203  
Diamond Bar, CA 91765, U.S.A  
Customer Service Email: customer\_service@dawnrise.com