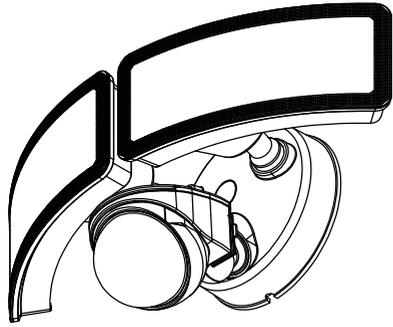


# USE AND CARE GUIDE MOTION SECURITY LIGHT 3CCT ADJUSTABLE



## 1. Specification

Model No.	VO-SC2W30-120-P-3WAY
Rated Voltage	120V,60Hz
Rated Wattage	30 W
Max Detection Distance	Up to 52.49ft
Max Detection Degree	180°(plane detection degree)
Rated Luminous Flux	2800 lm

## 2. ⚠ Warning

### 2.1 Installation precautions

- 2.1.1 Please read this manual to know well the structure and the installation operation procedures of this product before installation.
- 2.1.2 The input voltage used for the product is 120V.
- 2.1.3 Please make sure that all the accessories are consistent with the packing before installing. If any parts are missing or damaged, please do not attempt to install or operate.
- 2.1.4 Please make sure the electricity been turn off and the product is in a turned off status before installing.
- 2.1.5 The product is a non-dimming product and cannot be used with dimmers or timers.
- 2.1.6 Please make sure the product won't be covered with combustible materials when in using to avoid causing fire.
- 2.1.7 Please waiting for a few minutes to touch after the product been turned off, in case there is a risk of burns.
- 2.1.8 This product support to meet the requirements of FCC.
- 2.1.9 The light fixture should be installed at a height of no less than 6.56ft to avoid disturbance from small animals on the ground within detection range.
- 2.1.10 When installing the light fixture, installing it in a place without illuminated by metal halide lamp. If it cannot be avoided, it should be installed in a place 3m away from the illuminated range of the metal halide lamp.
- 2.1.11 The light fixture should be installed away from air conditioning, refrigerators, furnaces and other places where air temperature changes easily, as well as windows and other places where with strong hot airflow in order to avoid misoperation.
- 2.1.12 When the ambient temperature is close to the human body temperature, the sensor detection sensitivity will decrease.
- 2.1.13 When the light fixture is installed outdoors during the day, if the light fixture is susceptible or lights on/off intermittently, please adjust the sensitivity level down by one level, and adjust to appropriate sensitivity range after finish the installation.

### 2.2 FCC Information

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

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.

### 2.3 FCC CAUTION

Any changes or modifications to this unit not expressly approved by the manufacture could void the user's authority to operate the equipment.

### 2.4 IC Information

This device contains licence-exempt transmitter(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference. and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

## 3. Installation

**3.1 Mounting location:** wall or eave mounted.

**3.2 Mounting Height:** The light fixture should be mounted approximately 8ft (2.2-2.5 m) above the ground. If the light fixture is mounted higher or lower than recommended, the coverage area, distance or sensitivity of the sensor will be changed accordingly.

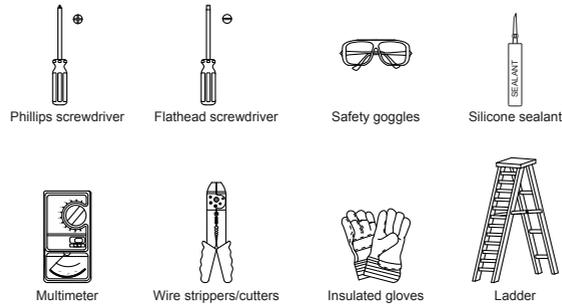


Location 1

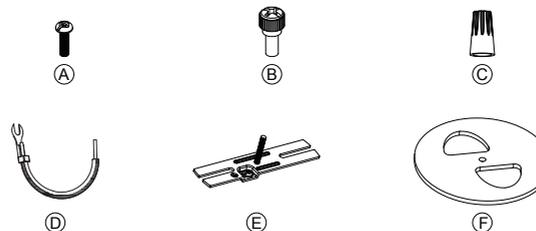


Location 2

### 3.3 Tools needed to install

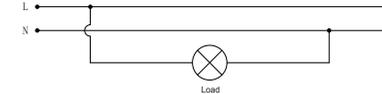


### 3.4 Part list



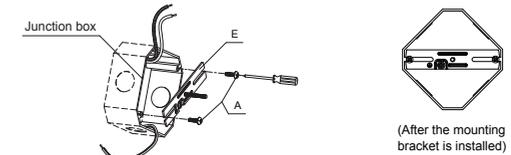
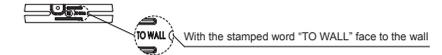
C/N	Part	Quantity	Description	Specification	Function
1	(A)	2	Screws	8#-32UNC×3/4 (in)	Fix mounting bracket or mounting universal board
2	(B)	1	Hand Screw nuts	M4×0.51 (in)	Fix the light fixture onto the mounting bracket
3	(C)	3	Wiring insulating nuts	P3/8×0.5×0.87 (in)	Connect the wires, ground wire and the wires of light fixture accordingly.
4	(D)	1	Ground wire with terminal	18AWG	Connect wall - ground wire and fix the ground wire onto the mounting bracket.
5	(E)	1	Mounting bracket	3.86×0.79×0.18 (in)	Fix the junction box on the wall with the light fixture firmly.
6	(F)	1	Waterproof rubber gasket	4.49×0.16 (in)	Prevent water from entering the light fixture

### 3.5 Wiring application

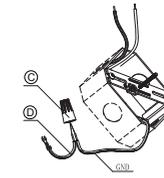


### 3.6 Installation steps

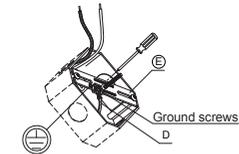
- ① Wall junction box, when 2 mounting screw holes are horizontal, install the mounting bracket (E) on the junction box with screws (A).



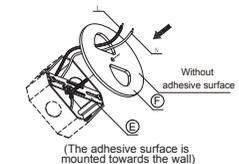
- ② Connect ground wire with terminal (D) with ground wire in the junction box, screw on the wire nut (C) to secure.



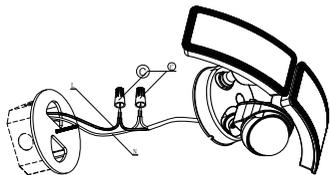
- ③ Connect ground wire to grounding screw, fasten by screwdriver.



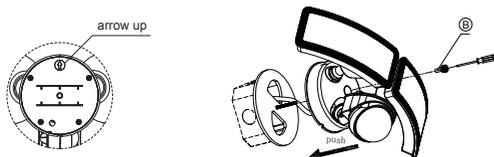
- ④ Install the waterproof rubber gasket (F) on the mounting bracket (E).



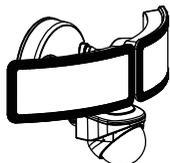
- ⑤ Connect the black wire on security light to terminal "L", white wire to terminal "N", screw on the wire nut ④ to secure.



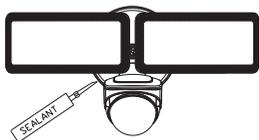
- ⑥ Install the security light to the mounting bracket ⑤ with screws ⑥.



- ⑦ After installation, power on the circuit breaker or fuse box.



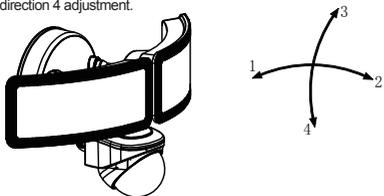
- ⑧ When the safety light is firmly secured to the junction box, apply silicone sealant around the bottom of the safety light to prevent water from entering the interior of the safety light.



## 4. Operation

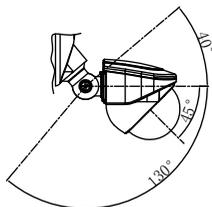
### 4.1 Setting for the light coverage area

- ① Left and right to adjust the light irradiation area, the lamp head adjustment direction according to the arrow indicates direction 1, direction 2 adjustment.  
② Far and near to adjust the light irradiation area, the lamp head adjustment direction according to the arrow indicates direction 3, direction 4 adjustment.

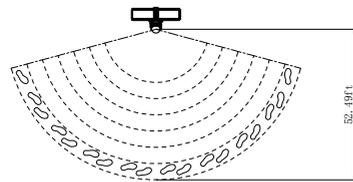


### 4.2 Adjustment and setting for the detection distance

- 4.2.1 As shown in the picture 1 (schematic diagram of the max detection scope). The sensor can be adjusted up 40° or down 130°. When fixture installed on the vertical wall, adjust the sensor to different degree can change the detection distance. When the sensor is mounted at a horizontal position, the detection distance is the largest. The detection distance and sensitivity varies depending on the installation height.

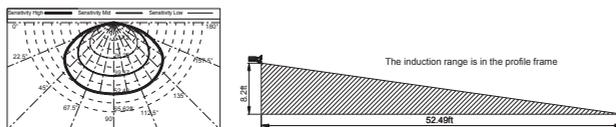


picture 1



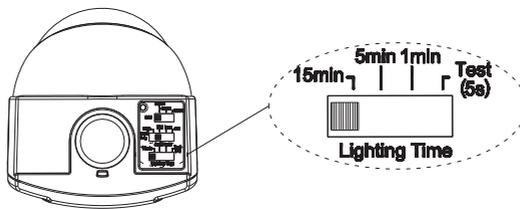
picture 2

### 4.2.2 Typical schematic diagram of the detection scope when the sensor is mounted in different angles.



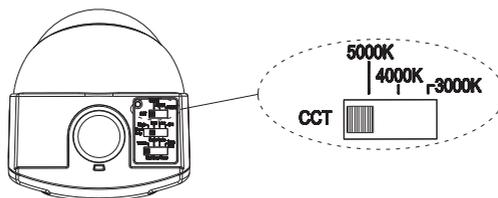
### 4.3 Setting for the lighting time

- ① Adjust the switch of "Lighting Time" can set the duration of lighting time when the sensor detect an object movement, then it will turn the light on (The duration time when the objects stop movement), it can be set to 15min, 5min, 1min and Test(5s).  
② When set on Test(5s) position, it is used to test for installation, which is not controlled by ambient lux, and the light will stay on for 5 seconds.



### 4.4 Setting of colour temperature

- ① Slide the "CCT" switch to set the working colour temperature of the safety light, which can be set to 5000K, 4000K, 3000K respectively.

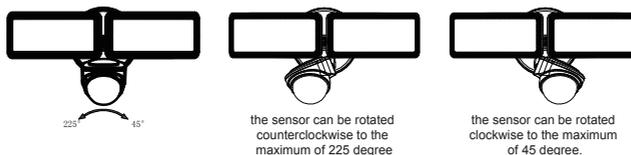


colour temperature		
5000K	4000K	3000K

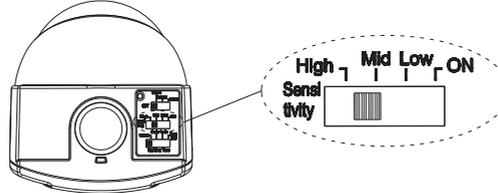
### 4.5 Setting for the motion sensor detection scope

#### 4.5.1 Adjustment of the detection scope

- ① If you need to adjust the detection scope, the sensor can be rotated clockwise or counterclockwise to the maximum of 225 degree.



- 4.5.2 Setting for the detection distance means the setting of sensitivity slide the "Sensitivity" switch can set the sensitivity of the sensor which means changing the sensor's detection distance, it can be set as high, mid, low and ON (turn off the function of PIR detection and the light will be constant on).



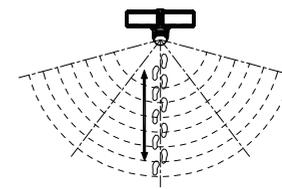
Typical detection distance when fixture is installed on the vertical wall (lateral movement)				
Mounting angle	High	Mid	Low	ON
Horizontal direction	52.49ft	39.37ft	26.25ft	turn off the function of PIR detection and the light will be constant on

#### Remark:

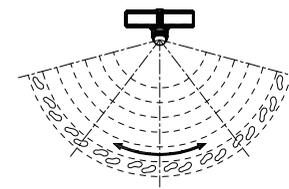
1. When Sensitivity is set to ON (PIR detection is switched off), the safety light will be constant on and can control the light ON/OFF by switch.

### 4.5.3 Instruction about the setting of motion sensor detection scope

- a. To determine the detection scope of the motion sensor, a simulation test is required: Walking along an arc in front of the motion sensor.  
b. The motion sensor is less sensitive if in a radial movement. As shown below (picture 1).  
c. The motion sensor is more sensitive if in a lateral movement. As shown below (picture 2).  
d. Observe the the light. If the light is on, that means the movement has been detected by the sensor and has gave out lighting command.  
e. Stop walking and wait for the light to turn off and then begin walking again.



picture 1



picture 2

## 5. Maintenance

### 5.1 Cleaning Maintenance

- ① It is recommended to use a soft damp cloth to clean to prolong the maintenance of the original appearance of the security light.  
② Do not use paints, solvents or other chemicals on the security light as it may cause premature deterioration or damage to the surface of the light, which is not a cosmetic defect and is not covered by the warranty.  
③ Do not use hoses or automatic cleaners to flush the security light.

### 5.2 Troubleshooting

Problem	Possible Cause	Solution
The light can't be on	1. The light switch is turned off.	Turn the light switch on.
	2. The power source fuse is blown.	Replace the fuse.
	3. The influence of daytime light-sensing function on the lamp.	Check again after dark;
	4. Bad connection of the wire.	Check if the wire is well connected.
	5. The sensor is not set at the correct angle.	Re-adjust the direction of sensor or lamp installation position to cover the desired area.
	6. The ambient temperature is almost the same as the human body.	① Decrease the "Sensitivity" setting ② If ① can not meet the requirement, relocate the light fixture to avoid the inappropriate installation position.
The light comes on during the day.	1. The motion sensor may be installed in a relatively dark location.	Set the "Ambient lux" switch to the appropriate position or reposition the motion sensor.
	2. The "Lighting Time" switch is set in the "Test" position.	For the convenience of user testing, we close "Test" switch's light function of "Lighting Time" specifically, just set to other position, the light function will restore.
	3. Power on self-test (The lamp will have a self-test that lasting 1 minute when it's turned on in the first time and the light will continue to light up during this time).	It will start to work normally after the self-test.
The lights turn off too late in the Dusk-to-Dawn setting.	1. The light fixture may be installed in a relatively dark location, so do not sensitive to outside light change.	Relocate the light fixture.
The light comes on for no apparent reason.	1. The motion sensor may be sensed small animals, cars or other heat source come by.	Adjust the "Sensitivity" setting to appropriate position or reposition the motion sensor.
	2. The ambient temperature is much higher than the human body temperature.	Decrease the "Sensitivity" setting or relocate the light fixture.
The lights stay on continuously.	1. The motion sensor may be picking up a heat source	Relocate the motion sensor.
	2. The light fixture is on the same circuit as a motor or transformer.	Install the light fixture on a circuit without high power motors and transformers.
The lights flash continuously	1. Heat or light from other bulbs may be turning the motion sensor on and off.	Relocate other bulbs to keep away from the motion sensor or adjust motion sensor direction or relocate the light fixture.
	2. Heat is being reflected from other objects and may be turning the motion sensor on and off.	Decrease the "Sensitivity" setting or reposition the motion sensor.