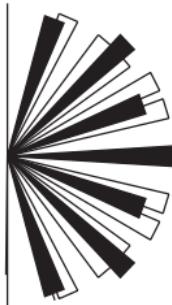


**SECURITY FLOODLIGHT
INSTALLATION MANUAL**

**E-644 (LHT0096)
E-645 (LHT0097)
E-646 (LHT0098)**

TOP VIEW



120°

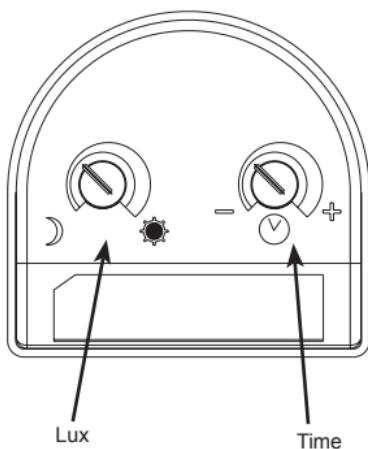
A

SIDE VIEW



2.5m

12m



C

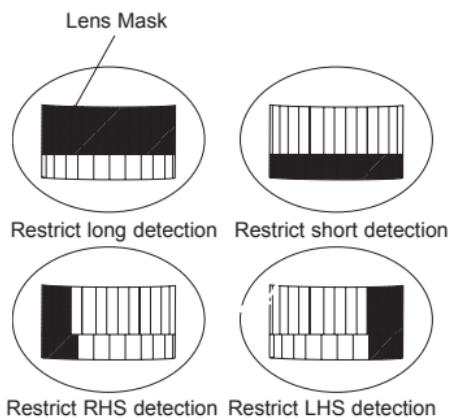
B



Less
sensitive



More
sensitive



D

SIMX LTD WARRANTY CLAUSE

Master Warranty

In addition to your statutory rights relating to this product it is also guaranteed by SIMX LTD or its appointed agent for 36 months from the date of purchase against faulty materials or workmanship which affect its designed ability to detect or switch. During this period if the product has a defect of this nature it will be repaired or replace free of charge by SIMX LTD with the same item, or a similar one of higher specification. ON CONDITION THAT:-

The product has been bought by the user.

The product has not been misused or handled carelessly, installed incorrectly, or used on a voltage supply other than that shown on it.

Repairs have not been attempted by anyone other than SIMX LTD or their appointed agent..

This guarantee excludes liability for discolouration of paint or plastic, or any user replaceable parts and in particular lamps, glass panels or globes/lanterns. It does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss or damage. This guarantee is offered as an additional benefit and does not affect your statutory rights as a consumer.

SECTION ONE

GENERAL INFORMATION

The unit utilises passive infrared technology to detect heat radiation of moving human bodies. Upon detection, the lamp will illuminate for a user-determined time period. An integral daylight sensor ensures night-only operation.

PARTS INCLUDED

- Luminaire c/w PIR Sensor unit.
- Instruction manual. Please keep safe for future reference.
- Accessory Pack.

TOOLS & PARTS NEEDED

- Electric/hand-held drill & bits.
- Terminal or Electricians screwdriver
- Large slotted/philips screwdriver
- Wire cutters

Unit is for outdoor use only. Unit must be mounted on a non-flammable surface as a fixed luminaire, and is not suitable for portable use.

The unit can get very hot during use. Ensure the unit has cooled before handling. Ensure adequate ventilation space is allowed between the unit and any object above, in front or to either side of the unit. Suggested space is 0.5m above, 0.3m to either side & 1.0m in front. If in any doubt, consult a qualified tradesperson or electrician.

SECTION TWO

SELECTING THE LOCATION

The motion detector has a number of detection zones, at various vertical and horizontal angles as shown (see diagram A).

A moving human body needs to cross/enter one of these zones to activate the sensor. The best all-round coverage is achieved with the unit mounted at the optimum height of 2.5m.

Careful positioning of the sensor will be required to ensure optimum performance. See diagram A detailing detection range and direction.

The sensor is more sensitive to movement ACROSS its field of vision than to movement directly TOWARDS (see diagram B). Therefore position the unit so that the sensor looks ACROSS the likely approach path.

Avoid positioning the sensor where there are any sources of heat in the detection area (extractor fans, tumble dryer exhausts etc.).

Reflective surfaces (ie pools of water or white-painted walls) and overhanging branches may cause false activation under extreme conditions.

During extreme weather conditions the motion sensor may exhibit unusual behaviour. This does not indicate a fault with the sensor. Once normal weather conditions return, the sensor will resume normal operation.

SECTION THREE

INSTALLATION

***** IMPORTANT *****

Switch off the electricity at the fuse box by removing the relevant fuse or switching off the circuit breaker before proceeding with the installation.

After choosing a suitable location (see previous section) install the unit as follows:

Note: This unit is suitable for wall or eave mounting. Be sure to rotate the sensor head so that the Time and Lux adjusters are on the underside of the sensor when the unit is mounted.

The unit is suitable for connection to a 220~240 V ac 50Hz electricity supply. It is suggested that 2-core cable of 1mm² gauge is used. An isolating switch should be installed to switch the power to the unit ON & OFF. This allows the sensor to be easily switched off when not required or for maintenance purposes.

The unit can be wall or ceiling mounted (diagram E). Mark the position of the fitting holes. Drill the holes. Insert the raw plugs into the holes.

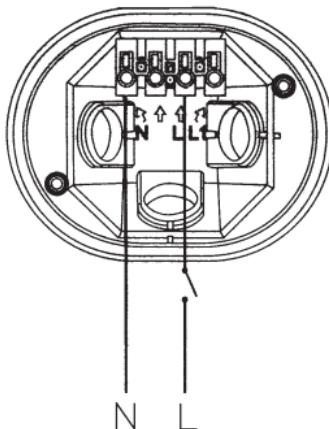
CONNECTION

Wiring connections should be made directly into the unit's wiring.

1. Remove the backplate by unscrewing the two retaining screws.
2. Pass the cable through the entry grommet and secure under the cable clamp.
3. Fix mounting plate to wall/eave (Diagram F)
4. Connect the cable to the terminals :

NEUTRAL = Blue

LIVE = Brown



5. Re-fit the junction box to the mounting plate, ensuring the foam gasket is correctly in place (Diagram G).
When installing the PAR 38 lamps, ensure the rubber gasket is securely fitted to cover the metal rim of the lamp and the lampholder (Diagram H).
6. Take care not to overtighten the screws to prevent damage to the mounting plate. If using a power screwdriver, use the lowest torque setting.

SECTION FOUR

OPERATION AND TESTING

WALK TEST PROCEDURE

The sensor will rotate from left to right, and tilt forward or backward. Adjust the sensor to point in the required direction.

The unit can be set up in daylight or at night. The adjustment knobs are factory set. Lux is set to the 'Moon' setting and Time is set to a minimum. If not, set as shown in diagram C.

Max - turn knob clockwise, Min - turn knob anticlockwise.

Turn the power to the unit on. The lamp will illuminate for approximately 30 seconds. This indicates the unit is wired correctly.

After approximately 30 seconds the light will turn off.

The unit is now in Test Mode.

TEST MODE

The lamp will now illuminate for approximately 5 seconds every time movement is detected. Walk across the detection area approximately 5 metres from the unit. Each time you are detected the lamp will illuminate. Now stand still until the lamp extinguishes (this should take approx, 5 seconds).

Start moving again, when you are detected again the lamp will illuminate.

Repeat the above, walking at various angles and distances to the unit. This will help you to establish the detection pattern.

If the detection area is too small for your requirements, try angling the sensor head up. Angling the head downwards will reduce the detection area should a smaller range be required.

When walk test are complete, the unit will switch into **Sensor Control Mode**.

Simply cease movement within the detection area for approximately 60 seconds, ensure the lamp is not illuminated. The unit will then switch to **Sensor Control Mode**.

SETTING UP FOR AUTOMATIC OPERATION

When walk tests are complete, the unit can be switched to automatic operation:

The TIME setting controls how long the unit remains illuminated following activation & after all motion ceases. The minimum time (fully anti-clockwise) is approx. 5 seconds, whilst the maximum time (fully clockwise) is approx. 5 minutes. Set the control to the desired setting.

The DUSK control determines the level of darkness required for the unit to start operating. The setting is best achieved by the procedure below:

When the ambient light level reaches the level of darkness at which you wish the lamp to become operative (i.e. at dusk) SLOWLY rotate the control in a clockwise direction until a point is reached where the lamp illuminates. Leave the control set at this point.

At this position, the unit should become operative at approximately the same level of darkness each evening. Observe the operation of the unit. If the unit is starting to operate too early (ie. when it is quite light), adjust the control slightly anti-clockwise. If the unit starts to operate too late (ie. only when it is very dark). Adjust the control slightly clockwise. Continue to adjust until the unit operates as desired.

MANUAL OVERRIDE MODE

The light can be switched on for longer time periods by use of the Manual Override Mode. This can be activated at night by using the internal wall switch or circuit breaker.

Switch the internal wall switch/circuit breaker twice (off/on off/on) within 2 seconds. The unit will now illuminate continuously until dawn or until switched back into Auto Mode.

To switch the unit back into Auto Mode, flick the internal wall switch/circuit breaker once (off/on) within one second. The unit will return to its Auto mode and will operate as set up during the walk test period.

Warning - If you switch the unit off for too long - longer than 1 second, the unit will restart the automatic walk test procedure and the unit may illuminate periodically, until it resets itself after 60 seconds of no detection. The unit will reset automatically if left alone.

MASKING THE SENSOR LENS

To reduce the sensor coverage, preventing detection in unwanted areas, mask the sensor lens using electricians tape or similar (see diagram D). For your information, the top section of the lens covers long range detection, the bottom covers short range. Similarly the left and right lens sections cover the left and right detection areas respectively.

SECTION FIVE

TECHNICAL SPECIFICATIONS

Detection Range	Up to 12 metres
Detection Angle	120°
Power Supply	220~240 V AC ~ 50Hz
Maximum Switchable Load	300W
Lamp Type	2 x 230V 150W PAR 38 ES reflector lamp
Time On Adjustment	5 seconds - 5 minutes
Dusk Level Adjustment	Day & night or night only operation
Environmental Protection	IP44 (suitable for outdoor use)

If you experience problems refer to Troubleshooting Guide.
If problems still exist, do not immediately return the unit to store.

Telephone the Simx Customer Helpline

NZL: 64 9 259-1662 Weekdays 9.00am - 5.00pm

Email: sales@simx.co.nz Website: www.simx.co.nz

Qualified Customer Support Co-ordinators will be on-line to assist in resolving your query.

SECTION SIX

TROUBLESHOOTING GUIDE

PROBLEM

- Lamp stays ON all the time at night.

SOLUTION

The unit may be suffering from false activation. Cover the sensor lens completely with a thick cloth. This will prevent the sensor from "seeing" anything. If the unit now switches off after the set time duration and does not re-activate, this indicates that the problem was caused by false activation. The problem may be solved by slightly adjusting the direction / angle of the sensor head (see previous section). Also, the sensor may possibly be switched into the PMO (override) mode. Switch off/on quickly to restore to security mode.

- PIR keeps activating for no reason / at random.

You may not be allowing the unit time to complete its warm-up period. Stand well out of the detection range and wait (the warm-up period should never exceed 5 minutes). Occasionally, winds may activate the sensor. Sometimes passages between buildings etc. can cause a "wind tunnel" effect.

Ensure the unit is not positioned so as to allow detection of cars/people using public thoroughfares adjacent to your property.

- PIR sensor will not operate at all.

Check that the power is switched ON at the circuit breaker/internal wall switch.

Turn OFF the power to the unit and check the wiring connections as per the diagram (see previous section 3). Ensure no connections are loose.

- The PIR sensor will not operate at night.

Check the lamp. If the lamp has failed, replace. Ensure that the lamp is seated correctly in the lampholder.

- Unit activates during the daytime.

The level of ambient light in the area may be too bright to allow operation at the current DUSK setting. During the hours of darkness, adjust the DUSK control slowly clockwise until the lamp illuminates. Refer to previous section for more details.

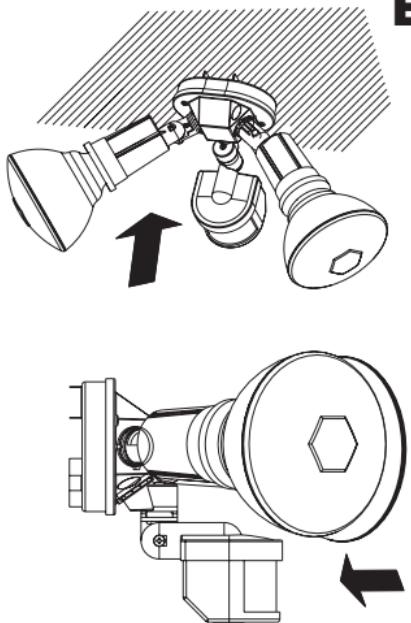
- PIR coverage is poor/sporadic.

The level of ambient light in the area may be too dark for the current DUSK setting. During daylight, adjust the DUSK control slightly anti-clockwise. When the lamp load extinguishes, enter the detection area. If the PIR still activates, the setting is still too high. Repeat the above procedure until the PIR does not activate when you enter the detection area. Refer to previous section for more details.

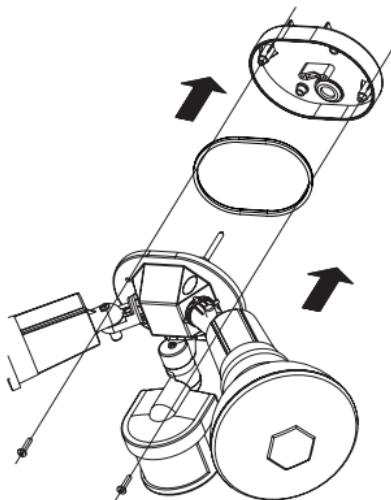
- Detection range varies from day to day.

Unit may be poorly located. See previous section - 'Selecting The Location' and re-locate the unit.

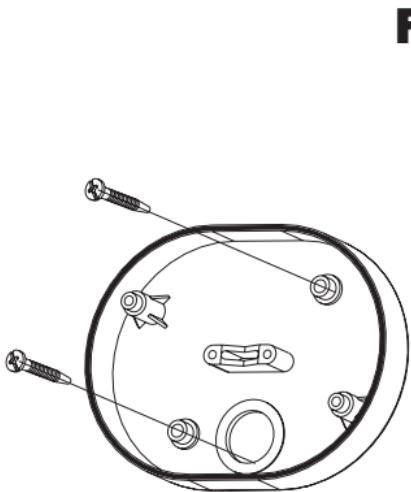
PIR sensors are influenced by climatic conditions. The colder the ambient temperature, the more effective the sensor will be. You may need to make seasonal adjustments to the sensor head position to ensure trouble-free operation all year round.



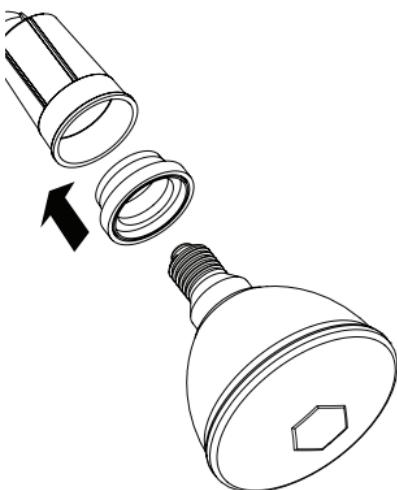
E



G



F



H