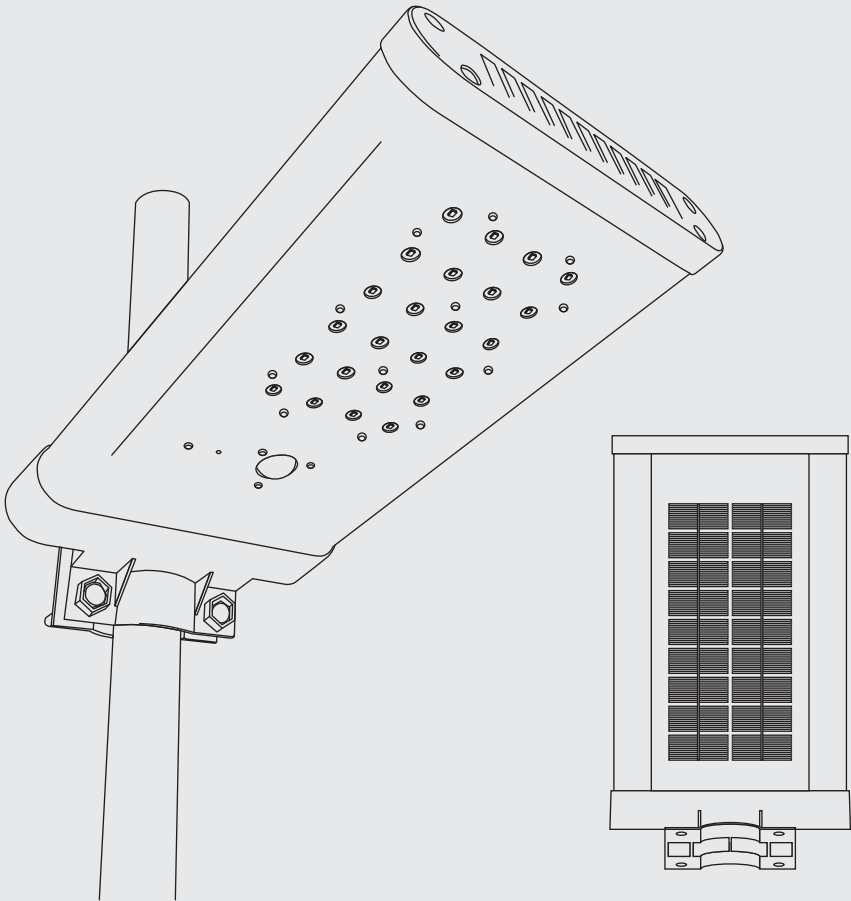


SUN  SYNK

## ECLIPSE

The All-in-One Solar Light

6 Watt / 12 Watt / 24 Watt / 36 Watt / 48 Watt



INSTALLATION & OPERATING INSTRUCTIONS

## Specifications

| Model No.   | LHT2001   | LHT2002        | LHT2003        | LHT2004         | LHT2005         |
|---|---|----------------|----------------|-----------------|-----------------|
| Fitting Wattage   | 6 Watt  | 12 Watt        | 24 Watt        | 36 Watt         | 48 Watt         |
| Lumens  | 400   | 900            | 1600           | 2300            | 3200            |
| Courtesy Lumen Output Level ( $\pm 10\%$ )                  | 35  | 70             | 120            | 180             | 250             |
| Light Distribution Angle (to half intensity)                | 100°  |                |                |                 |                 |
| Lamp Color Temperature                                      | 5700K Natural White                                   |                |                |                 |                 |
| Sensor Detection Range (approx. radius)                     | up to 4 metres  |                |                |                 |                 |
| Installation Height (optimum )                              | 4 metres  | 4 metres       | 5 metres       | 6 metres        | 6 metres        |
| Integral Solar Panel  | 4 Watt 11.5V  | 5.5 Watt 12V   | 6.5 Watt 12V   | 10 Watt 17.5V   | 10.5 Watt 17.5V |
| Secondary Solar Panel                                       | 6 Watt 13V  | 6 Watt 13V     | 6 Watt 13V     | 6 Watt 18 V     | 6 Watt 18V      |
| Battery (lithium-ion)                                       | 2200mAh @ 7.4V  | 2200mAh @ 7.4V | 4400mAh @ 7.4V | 4400mAh @ 11.1V | 6600mAh @ 11.1V |
| Max Run Time*<br>(8 hour charge/single panel/20 x triggers) | 7 hours   | 7 hours        | 7 hours        | 7 hours         | 6 hours         |
| Max Run Time*<br>(8 hour charge/single panel/NO x triggers) | 10 hours  | 11 hours       | 11 hours       | 10 hours        | 9 hours         |
| Battery Charging Temperature Range**                        | 0 - 80°C  |                |                |                 |                 |
| Battery Discharging Temperature Range                       | -20°C - 60°C  |                |                |                 |                 |
| Protection Rating   | IPX5  |                |                |                 |                 |
| Pole Diameter (OD mm)                                       | 60 - 90mm   |                |                |                 |                 |
| Housing   | Powdercoat Aluminium with 306 Stainless Steel Fixings |                |                |                 |                 |
| Nett Luminaire Weight                                       | 1.6 Kg  | 1.9 Kg         | 2.1 Kg         | 2.7 Kg          | 3.2 Kg          |

\* Max Run Time based on fully charged batteries. Insufficient Sunshine hours may reduce run time.

\*\* Built in charge controller prevents inefficient charging outside these parameters.

## Introduction

- Solar powered lights do not work without sunlight. Please choose your location carefully in order that the maximum amount of light falls onto the solar panels. In areas that are short of light or after continuous days of rain, the Eclipse may only charge enough to provide courtesy lighting.
- The Eclipse incorporates a highly efficient Lithium-Ion battery. The functional charging temperature is 0-80°C. A built-in charge controller prevents charging when temperatures fall outside of these parameters. The discharging temperature is -20 to +60°C.
- The Eclipse should be mounted with a clear sky above so that maximum sunlight can fall on the panel. Should there be trees or building structures obstructing direct light, the performance will be reduced.
- The Eclipse Solar light is designed to work perfectly using the integral solar panel, provided that the panel is orientated towards the sun.
- If your desired location restricts this, fix the extra panel using the brackets provided, plug the cable socket at the rear of the light into the panel cable, and aim that panel directly towards maximum sunshine.

Alternatively, adding the extra panel and having both panels aimed at the sun, will reduce the time it takes to fully recharge the batteries.

### ⓘ IMPORTANT

Take normal safety precautions when using tools and ladders. Install only in dry weather.

This light fitting is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Young children should be supervised to ensure that they do not play with the appliance.

Any changes or modifications made or attempted to this product, without the prior written approval of the manufacturer, will void any and all stated warranties.

## Installation

### Parts Included with each Light Fitting:

- 1 x Eclipse All-in-One Light Fitting
- 1 x Wall / Pipe Bracket
- 1 x Mounting Kit
- 1 x Extra Solar Panel and Brackets

- It is important that the Eclipse light fitting is mounted on a pole or wall that places it in direct sunlight. The recommended mounting height is 4-6 metres high and 6-9cm diameter and more than 2mm thick.
- Please open the package and ensure all of the parts are complete.
- Before installing the Eclipse, turn unit on and place the fitting on the ground with the solar panel facing down and check to see that the unit illuminates to its low-light or courtesy light level. Sweep your hand over the sensor and check that the light increases its brightness to 100% power and stays on for a period of time (30-60 seconds) before returning to courtesy light. Once satisfied proceed to install the fitting.
- The Eclipse is designed to be fitted directly onto poles of differing sizes or, using half of the bracket, directly onto a wall. Use the supplied accessories for mounting.
- If the integral solar panel does not aim towards the normal sunlight arc, connect and mount the secondary solar panel supplied. Aim that panel directly at the 10am sun location for optimum charging.

## Battery Management System

The battery operation is digitally controlled by the built-in micro-processor and this programme ensures that as the battery power is depleted, the fitting will still operate in an efficient manner. The following table demonstrates how the battery will perform as the % of power reduces.

|                  | 100% - 60% Battery Power | 60% - 30% Battery Power | < 30% Battery Power    |
|------------------|--------------------------|-------------------------|------------------------|
| Full Light (PIR) | YES - 60 Secs Exposure   | YES - 30 Secs Exposure  | YES - 10 Secs Exposure |
| Courtesy Light   | YES                      | YES                     | NO                     |

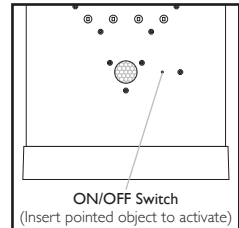
## Cleaning the Solar Panel

Although no part of the Eclipse requires maintenance, routine cleaning of the solar panel will allow it to perform at peak capacity. In winter, keep snow and ice from building up on the solar panel so the battery charges properly.

## Light does not operate at night

If the Eclipse does not operate at dusk despite observing the instructions of this manual, please try the following:

- Ensure the solar panel is not shaded or otherwise obstructed during the day.
- Ensure the ON/OFF switch has been activated (i.e. In the 'ON' position).



## Lithium-ion Battery Warning

### This product contains Lithium-ion batteries.

Lithium-ion cells and battery packs may get hot, explode or ignite and cause serious injury if exposed to extreme conditions. Be sure to follow the safety warnings listed below:

- Do not open the Eclipse or tamper with the circuitry and battery inside.
- Do not connect the positive terminal and the negative terminal of the battery pack to each other with any metal object [such as wire]
- Do not place the battery in direct sunlight or use and store the battery inside hot cars in hot weather. Doing this may cause the battery to heat, explode or ignite. Using the battery in this manner may also result in a loss of performance and a shortened life expectancy.
- Do not disassemble or modify the Eclipse or the battery. Both the Eclipse and the battery contain safety and protection devices, which, if damaged, may cause the battery to generate heat, explode or ignite.

Immediately discontinue the use of the battery if, while using, charging or storing the battery, the battery emits an unusual smell, feels hot, changes colour or shape, or appears abnormal in any other way.

- Do not place the battery in a microwave oven, high pressure container or induction cooker.
- In the event that the battery leaks and the fluid gets into your eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the battery fluid could cause damage in the eye.
- If the unit or parts of this unit are being transported or freighted, seek advice on the correct protocol for handling and notification of the Li-ion batteries from your shipping agent.

## Manufacturers Extended Warranty

This product is guaranteed by SIMX Ltd for 2 years from the date of purchase against faulty materials or workmanship which affects its designed ability to detect or switch. During this period if the product has a defect of this nature it will be repaired or replaced free of charge by SIMX with the same item, or a similar one of higher specification. ON CONDITION THAT:

The buyer returns it to the seller from whom it was bought, freight paid.

The product has been bought by the user. ie a receipt/sales invoice is produced as proof of purchase.

The product has not been misused or handled carelessly, installed in anyway contrary to the installation instructions, used on a supply voltage other than that indicated in the product specifications, or installed in any unusually exposed or harsh environmental conditions.

This guarantee excludes liability for discolouration of paint or plastic, or any user serviceable parts. It does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss or damage.

Our Goods come with guarantees that cannot be excluded under the New Zealand Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the Goods repaired or replaced if the Goods fail to be of acceptable quality and the failure does not amount to a major failure.

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Specifications are subject to change without notice.

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