

INSTALLATION INSTRUCTIONS



Mightylite Solar LED PIR Floodlight with Solar Panel

Thank you for purchasing this SIMX LED PIR Floodlight with Solar Panel. This light is suitable for outdoor use. Please read this manual thoroughly before use and retain for future reference.



Model	Description
LHT0346	Mightylite 28W LED PIR with Solar Panel
LHT0347	Mightylite 16W LED PIR with Solar Panel

Sensor Type: Passive IR.

Detection Range: 10 - 12 metres.

Detection Angle: 120°.

Colour Temp: 5700k Natural White.

Ingress Protection: Rated to IP65.

Construction: Alloy Polycarbonate.

Warranty: 2 Years fitting, 1 Year battery.

Battery Charge: 4-8 hours.

KIT CONTENTS

	1 x Solar Floodlight
	16W - 1 x 8 Ah Rechargeable Battery 28W - 1 x 12 Ah Rechargeable Battery
	16W - 1 x 36 Wh Solar Panel 28W - 1 x 60 Wh Solar Panel
	1 x Waterproof Cover & Rubber Ring (for covering the batteries)
	1 x Large Bracket for Solar Panel (for mounting the solar panel)
	1 x Small Bracket for Light (for mounting the light)
	2 x Pipe Mount Brackets (for mounting on poles)

KIT CONTENTS - HARDWARE KIT BAG

	2 x Knurled Bolt & Washers & Spring Washer (for light fitting)
	2 x Knurled Bolt & Retaining Nuts (M6) (for solar panel)
	4 x Nuts & Bolts & Washers - For Pipe and Solar (for assembling both pipe mounts)
	4 x Cover Screws - (T8) 2.5*7 (for assembling waterproof box)
	4 x Wall Screws - 8*1.5" (for assembling to the wall)
	4 x Wall Plugs - M8 (for assembling to the wall)
	1 x Mightylight Remote Control

! IMPORTANT

All electrical work must be carried out in accordance with local and national electrical codes as applicable. We strongly recommend that this light fitting is installed by a registered electrician.

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.

HOW IT WORKS

The MightyLite Solar Floodlight uses a digital controller with default setting options, the unit is fully automatic and ready for use. To enable more features, please refer to the 'Using the Remote Control' section of this manual.

During the day, the photo-voltaic (PV) solar panel charges the lithium battery. When fully charged the Solar Floodlight provides continuous low-level area lighting from dusk-till-dawn, boosting up to full power for 120 seconds when movement is detected by the built-in PIR.

If the battery charge falls below 60% the Solar Floodlight automatically operates at a lower light level from dusk-till-dawn, and reduces the on time after PIR detection to preserve battery life. If the battery charge falls below 35%, the digital control restricts these settings further.

The compact polycrystalline silicon solar panel is designed to operate in hot environments, continuing to charge the battery in temperatures as high as 60°C.

CHOOSING A LOCATION

The solar panel should be placed outside in direct sunlight away from shade (e.g. tree, building etc.) Position it so that it will not get damaged by animals or debris.

Align the solar panel facing the sun at around 10 o'clock for optimum charging and then tighten the solar panel to the bracket accordingly.

Mount the light fitting for ideal performance onto a solid wall or pipe 2.4m - 4.0m above ground.

Avoid positioning the Solar Floodlight near heat sources such as hot ventilation ducts or air conditioning units which may interfere with its operation.

Avoid positioning the light towards objects that may move in the wind such as trees or shrubs, or highly reflective surfaces. These issues may effect reliable triggering on the PIR sensor.

When positioning the light fitting, note that the PIR sensor is more sensitive to movement across its coverage area and less sensitive movement directly towards the PIR sensor.

MECHANICAL FIXING

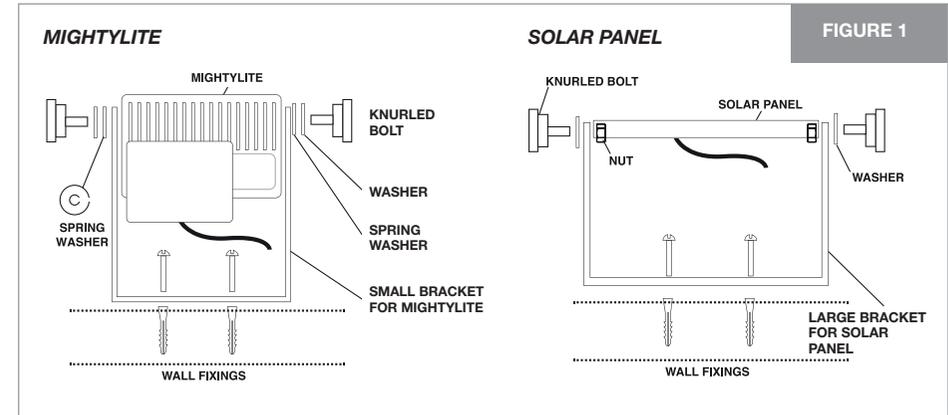
PRECAUTIONS

Please read all instructions thoroughly before installation.

- Ensure normal safety precautions are taken when using tools and ladders.
- Install only in dry weather. Please read the battery warning (see page 6).
- Unpack and check the contents in the box (see page 1 for kit contents).
- Install the Solar Floodlight onto the bracket using the knurled bolts provided. Position the light fitting for optimum PIR coverage (see Fig 3).

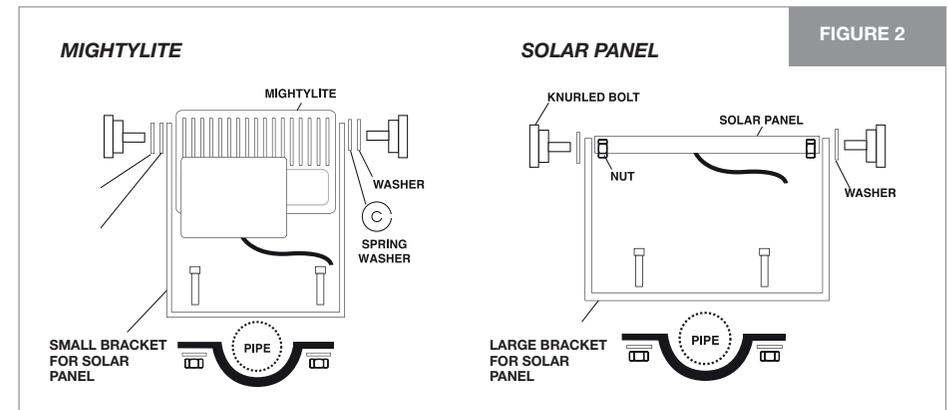
FIXING TO A WALL (Fig 1)

1. Mark off the position using the bracket as a guide.
2. Drill two fixing holes for each bracket, taking into account the length of cable from the solar panel and light fitting.
3. Secure the brackets to the wall.
4. Mount the solar panel onto its fixing bracket (which should be located above the light fitting), and set it to the appropriate angle and tighten.



FIXING TO A 50mm PIPE (Fig 2)

1. Attach the 'U' brackets, the light fitting and solar panel bracket to the pipe using the nuts and bolts provided. Take into account the length of the connection cable. Tighten bolts firmly.
2. Mount the solar panel onto its fixing bracket (which should be located above the light fitting), set it to the appropriate angle and tighten.



ELECTRICAL SETUP

NOTE: The unit will not operate correctly unless it is fully charged. When charging the MightyLite Solar, the charge LED should flash red.

If the charge LED is flashing orange, this indicates a battery fault or the battery may not be connected correctly. Remove the battery, clean the contacts with a non metallic cloth and carefully slide the battery back on.

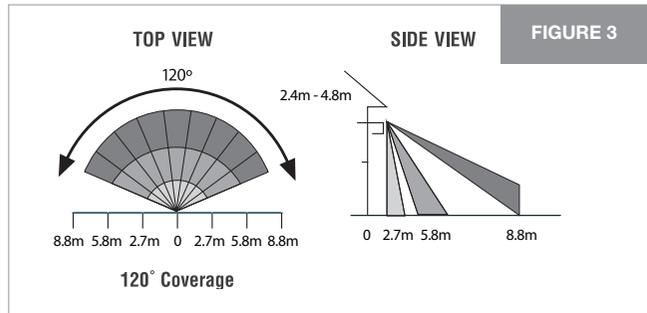
Pre-Install

1. Remove the lithium battery from the packaging, taking care when handling. Carefully slide the lithium battery onto the back of the light fitting, and the unit is now ready to charge.
2. To charge the unit, plug the solar panel and light fitting together. Once exposed to sunlight the red charge LED should flash to indicate the unit is now charging.
3. We suggest you charge the battery before installation, in direct sunlight for at least 8 hours. Keep out of reach of children. Once fully charged remove the battery (place somewhere safe) and disconnect the solar panel.

Install

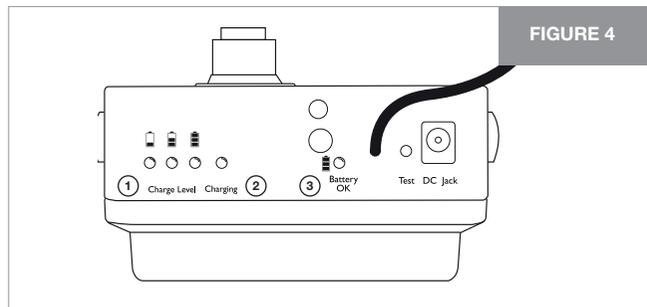
4. Carefully slide the battery onto the back of the Solar Floodlight and ensure it is fully locked into place. At this point do not plug the solar panel to the light fitting. Please take care not to touch the metal connections on the bottom of the battery.
5. Fix the battery waterproof protection cover in place with the four screws provided.
6. Plug the solar panel cable and the light fitting together.
7. Installation is now complete. To test that the unit is working satisfactory, cover up the solar panel and you will be able to walk test the unit in daylight (the light sensor is on the panel).

PIR DETECTION ZONES



BATTERY CONDITIONS LEDs

1. **Charge Level:** indicators for the battery charge level.
2. **Charging:** indicates when the solar panel is charging.
3. **Battery OK:** Battery check LED.

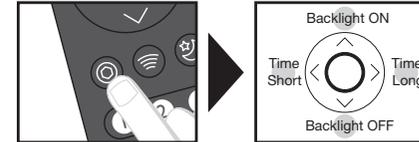


USING THE REMOTE CONTROL

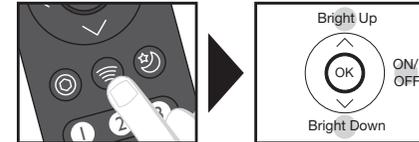
The Solar floodlight has a factory default setting of PIR on, time setting long, Courtesy light on.

Once a function below is selected, that setting becomes the "new" default. To revert back to a previous setting (ie. PIR mode) you need to activate that setting. When changing settings the light will "flash" to confirm.

Activate PIR



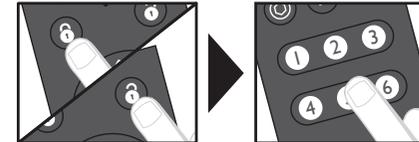
Remote control light



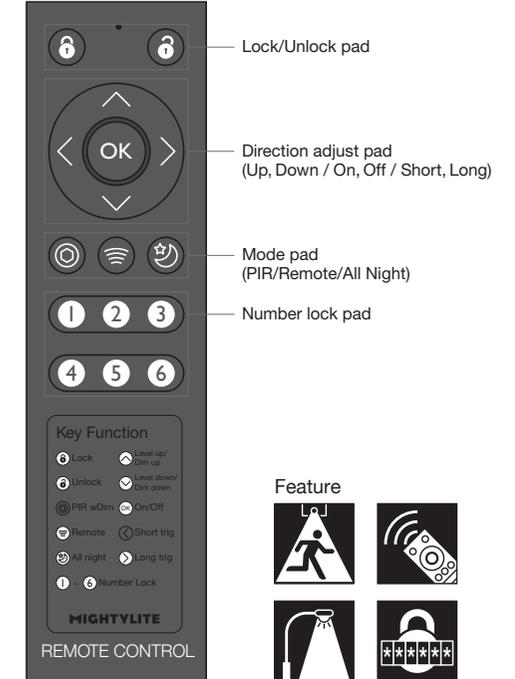
All night



6 Digit Code (Lock/Unlock)



Remote control Information



If you forget your 6 digit code, disconnect the battery on the floodlight and reconnect again. This will delete the code on your remote control.

STANDARD OPERATION ACCORDING TO BATTERY CONDITION



Battery Condition 100%

Operates on Med Light from Dusk till Dawn
Operates on Max Light for up to 120 secs after PIR detection



Battery Condition 60%

Operates on Min Light from Dusk till Dawn
Operates on Max Light for 60 secs after PIR detection



Battery Condition 35%

PIR function only
Operates on Max Light for 30 secs after PIR detection

Time ON varies depending on light output setting



WARNING - IMPORTANT

LI-ION BATTERY WARNING

Take great care when handling the battery.

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 connect the positive terminal and negative terminal of the battery to each other with any metal object (such as wire).
- Do not carry or store battery together with necklaces, hairpins or other metal objects.
- Do not pierce the battery with nails, strike the battery with a hammer, step on the battery or otherwise subject it to strong impacts or shocks.
- Do not expose battery to water or salt water, or allow the battery to get wet.
- Do not place the battery in or near flames, on stoves or other high temperature locations.
- Do not place the battery in direct sunlight, or use or 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 battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, explode or ignite.
- Immediately discontinue 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 containers or induction cookware.
- In the event 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 to 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 for your shipping agent.

MANUFACTURERS EXTENDED WARRANTY

This luminaire and solar panel are guaranteed by SIMX Ltd for 24 MONTHS from the date of purchase against faulty materials or workmanship which affects its designed ability to switch and operate. The battery in this kit is guaranteed for 12 months from date of purchase. 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 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 i.e. 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, or installed in any unusually exposed or harsh environmental conditions.

This guarantee excludes liability for discolouration of paint or plastic, or any user replaceable 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 Australian and 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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Simx reserves the right to alter technical specifications without prior warning

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