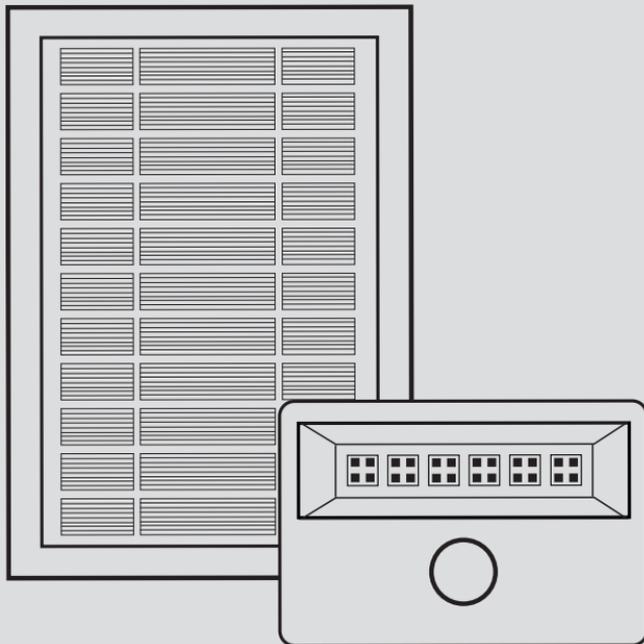


MIGHTYLITE Solar

8W, 600 Lumen Digital Solar
Floodlight with PIR

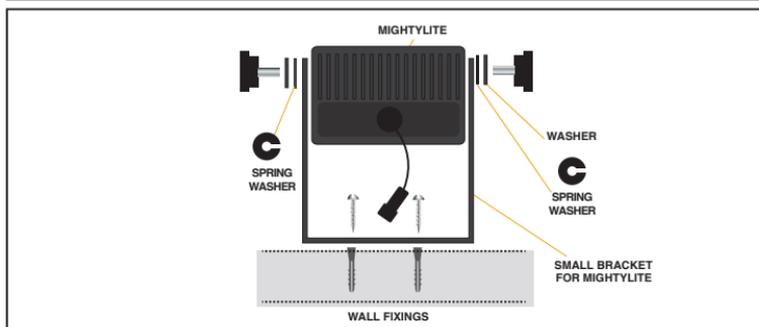
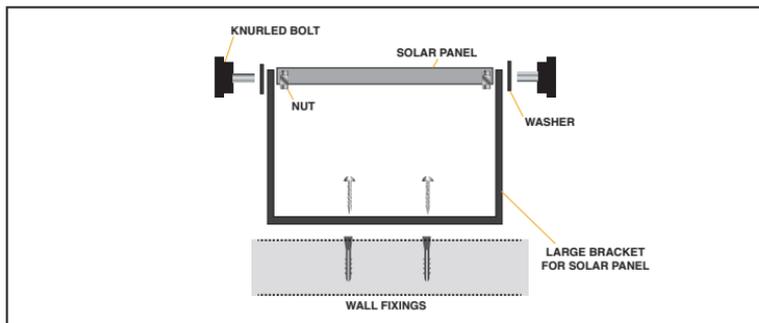


Installation & operating instructions

hylite

SET UP GUIDE

- 1)** Unpack and check the contents in the box, check to make sure you have the correct tools for the installation. (See page 2 for contents).
- 2)** To charge the unit, plug the solar panel and light fitting together. Expose to sunlight, the red charge LED should flash to indicate the unit is now charging.
- 3)** We suggest you charge the fitting before installation, in direct sunlight for at least 5 hours. Keep out of reach of children. Once fully charged disconnect the solar panel.
- 4)** Find a suitable location to install your new Solar Floodlight (See page 7 for choosing a location)
- 5)** Mount the solar panel and light fitting to the wall either with wall brackets, or 'U' brackets to 2 inch pipe, taking into account the length of the cables.
- 6)** Align the solar panel facing the sun at around 10am for optimum charging then fix the solar panel using the bracket provided.
- 10)** Install the Solar Floodlight onto the bracket using the knurled bolts provided. Position the light fitting for optimum PIR coverage (See fig.1)
- 11)** Plug the solar panel cable and the light fitting together.
- 12)** Installation is now complete. To test that the unit is working satisfactory, cover the solar panel with a dark cloth to simulate darkness wave your hand over the PIR to test.



- 1

x2
- 2
- 3
- 4
- 5
- 6

x5h



FIXING TO A WALL

- 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 above the light fitting), and set it to the appropriate angle and tighten.
- 5) Plug the solar panel into the socket on the light fitting.
- 6) Mount the light fitting onto its fixing bracket. and set to the optimum position for detection.
- 7) You can test the system is working by covering up the solar panel with a piece of card, the light should now illuminate, (see above for full function).

Point the PIR in the area you wish to detect.

Please note the unit is more sensitive when you walk across the field of view. Test the PIR by walking across the unit with the solar panel covered.

BATTERY CONDITION LEDs

A) Battery status LED on the back of the fitting.



Battery Condition 100%

Operates on Med Light from Dusk till Dawn
Operates on Max Light for 30 secs after PIR detection



Battery Condition 60%

Operates on Min Light from Dusk till Dawn
Operates on Max Light for 20 secs after PIR detection



Battery Condition 35%

PIR function only
Operates on Max Light for 10 secs after PIR detection





PRECAUTIONS

Ensure normal safety precautions are taken when using tools and ladders

Install only in dry weather.

Please read the **Battery Warning** before you install

TOOLS REQUIRED FOR INSTALLATION (NOT SOLD WITH THE PRODUCT)

- Hammer power drill
- Phillips screw drivers
- Ladder
- No. 8 Masonry bit (for wall mounting)

How it works

During the day, the photovoltaic (PV) solar panel charges the MightyLite's lithium batteries. When fully charged the MightyLite provides continuous low-level courtesy lighting from dusk-till-dawn, boosting up to full power for 30 seconds when movement is detected by the built-in PIR. If the battery charge falls below 65%, the MightyLite automatically operates at a lower light level from dusk-till-dawn and restricts the on time after PIR detections, to preserve battery life. The MightyLite Solar Digital LED Floodlight is constructed with an impact-proof UV stabilized Polycarbonate facing, tough aluminium body and is weather proof (certified to IP66) and highly resistant to birds, insects and extreme weather conditions. 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.



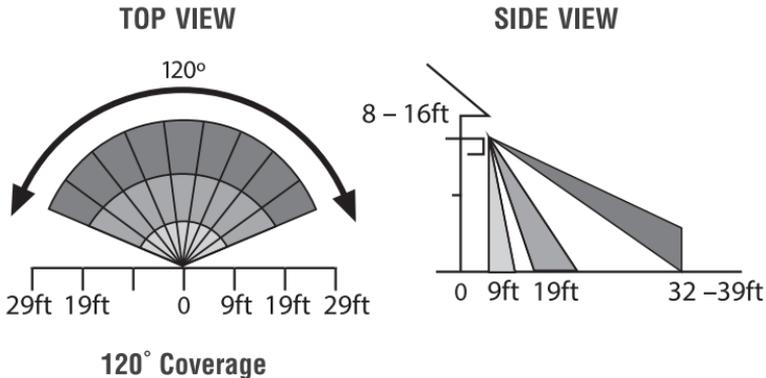


CHOOSING A LOCATION

Choosing A Location And Installation

The solar module should be placed outside in direct sunlight away from shade (e.g. tree, building etc...); south facing in the northern hemisphere or north facing in the southern hemisphere. Remember that shade will move as the sun moves at different times of the day. Position it so that it will not get damaged by animals or vehicles and to reduce the chance of theft. Angle of solar module if in the northern hemisphere: face your panel directly south. If in the southern hemisphere: face your panel directly north.

Mount the light fitting onto solid wall 3 - 5m above the ground. Avoid positioning the Mightylite near heat sources such as hot ventilation ducts, air conditioning units, street lighting or traffic which may interfere with its operation. Avoid pointing the light towards objects that may move in the wind such as trees or shrubs, or highly reflective surfaces. When positioning the light, note that the PIR sensor is more sensitive to a heat source moving across its coverage area and less sensitive to a heat source that moves directly towards the PIR sensor.





WARNING: KEEP OUT OF THE REACH OF CHILDREN

TROUBLESHOOTING

If your solar charged light does not come on at dusk despite observance of all the instructions please try the following steps.

- 1) Make sure that the Solar Light is not being affected by any other light source.
- 2) Ensure the Solar Light is not positioned in the shade during the day.

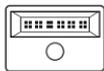
NOTE: The performance of the Solar Floodlight will vary with the time of year. It will deliver more light when it has a full day in the sun rather than a day in the overcast weather.

Winter Time Tips

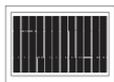
Keep snow, ice or debris from building up on the solar panel so the internal battery can recharge. If the solar panel is covered for an extended period of time, clean it and allow the batteries to charge in full. Batteries require 6 hours of direct sunlight to reach their maximum capacity.



KIT CONTENTS & HARDWARE KIT BAG



1x Mightylite Solar Floodlight with internal 2Ah battery.



600Lm, 8W - 1 x 12 Watt Hour Solar Panel



1x Large Bracket for Solar Panel
(for mounting the solar panel)



1x Small Bracket for Light
(for mounting the light)



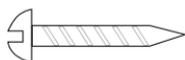
2x Knurled Bolt & Washers & Spring Washer
(for light fitting)



2x Knurled Bolt & Retaining Nuts (M6)
(for solar panel)



4x Nuts & Bolts & Washers - For Solar
(for assembling solar panel)



4x Wall Screws - 8*1.5
(for assembling to the wall)



4x Wall Plugs - M8
(for assembling to the wall)



WARNING: 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 pierce the internal battery with nails, strike the battery with a hammer; step on the battery or otherwise subject it to strong impacts or shocks .
- Do not place the fitting in or near flames, on stoves or other high temperature locations.
- 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 fitting 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.



SPECIFICATIONS

Sensor Type:	Passive IR
Detection Range:	10m
Detection Angle:	120°
Time Adjustment:	15 sec - 5 mins
Colour Temp:	5400K
LED SMD:	24 LED Array
Wattage:	8W
CRI:	>85%
Battery:	2Ah
Battery Voltage:	4.2V System
Battery Life:	3 Years
Solar Panel:	12Wh (based on 6 sun hrs Wh)
Water Resistance:	IP65





MIGHTYLITE Solar

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