

SolarMate[®]
Total Lighting Solutions



Solar
Technology
International
Without boundaries

User manual



Arena Light

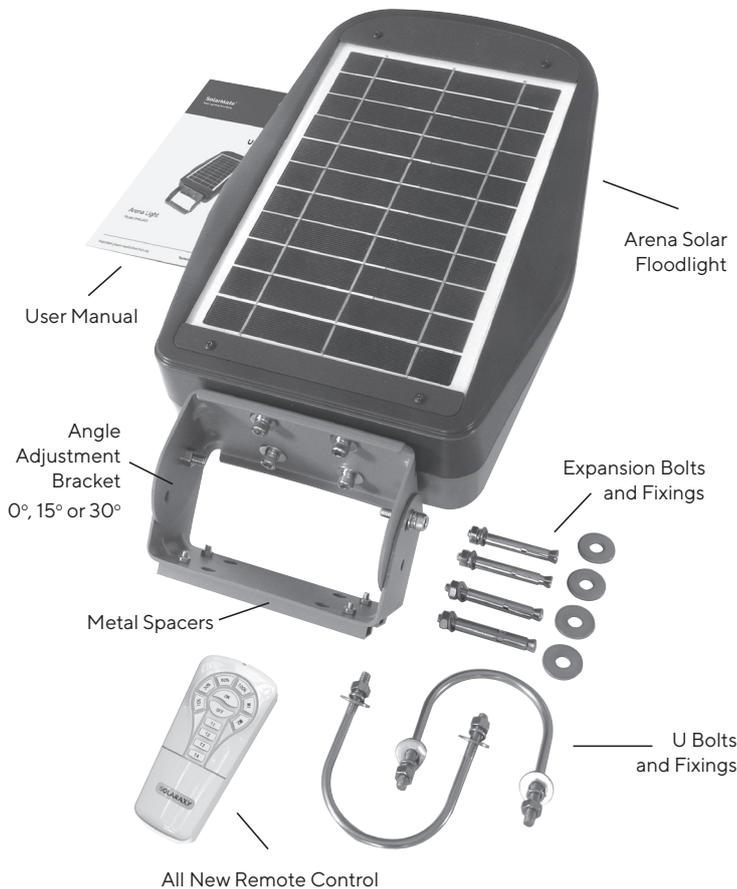
Model: SMAL001

Important: please read before first use.

Technical helpline 01684 774 000

SolarMate®

Total Lighting Solutions



Main Features

1. Flexible installation on pole or wall
2. Adjustable installation angle: 0°/15°/30°
3. Large lighting area
4. Remote control function from long distance
5. Lighting time and brightness option
6. 1000 lumens

Electric Characteristics

Flat compact solar panel	6.8W, 10 years life span
Li-ion battery	3.7V, 12000mAh
LED	30 LEDs, 1000 Lumens
Charging time	9-10 hours
Lighting time	More than 4 nights (dim lighting mode)
Ray sensor	<10 Lux
PIR sensor	5-8M, 120°
Waterproof	IP65
Install height	2.5-3.5m
Material	Aluminium + plastic
Size	450x246x86mm
Working temperature	-25°C to 65°C
Warranty	2 years

1. Contents

- 1 x Arena Solar Floodlight
- 1 x Remote Control
- 2 x AAA Batteries (fitted inside the remote control – remove clear plastic tag inside battery box to activate)
- 2 x U bolts with 4 nuts and washers (for pole mounting)
- 4 x Expansion bolts, nuts and washers (for solid walls)
- 2 x Metal spacers
- 1 x User manual

2. How Arena Light Works

Arena Light has an integrated solar panel which delivers power to its internal battery whenever it is exposed to daylight. It can never overcharge its battery due to internal control circuit boards. The solar panel has a 20+ year life cycle and the battery around 5 years. The battery can be replaced and is available from www.solartechology.co.uk

The purpose of Arena Light is to flood an area with light when either it detects movement or for a solid period of time. Below you will find details of the operational modes of the Arena Light.

3. Identifying the best Location for the Arena Light

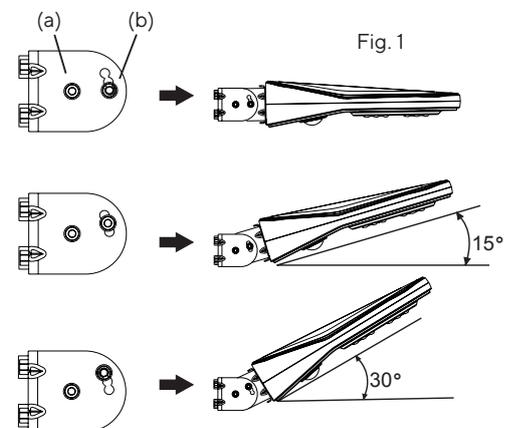
Arena Light incorporates a solar cell which needs to face upwards. Wherever possible the solar cell should not be located in shady areas and ideally, when or if tilted, it faces east, south or west. If it faces north, the cell will still deliver power but not as much or as quickly as if facing south. The optimum height to fix Arena Light is from 2.5 to 5m.

Example: For a 40m x 20m arena we recommend a minimum of 6 Arena Lights – 3 on each of the long sides, evenly spaced. Ideally position each Arena Light on a 4m pole and angle the head at the 30 degree position.

4. Adjusting the Angle of Arena Light

It is best to decide the angle before fixing in place. Arena Light has three angles it can be adjusted to: flat – 0 degrees, 15 degrees tilted upwards and 30 degrees tilted upwards. 30 degrees provides the furthest throw of light, 0 degrees for more intense brightness. To adjust the angle, loosen both side bolts (a) toward the rear of the Arena Light bracket (Fig 1).

The bolts (b) toward the front of the bracket have three notches enabling the angle to be locked in place. Remove the bolts (b) completely and once the desired notch is reached, replace the bolts (b) and tighten all of the bolts/nuts.



5. Operation of Light

Before fitting the light in its final position push and hold the button on the underside of the light (Fig. 2) for a few seconds until the light comes on. It will stay illuminated for a short while and will then turn off but it confirms it is ready for night time operation. Should you ever need to store your Arena Light press the button in (Fig. 2) and this will switch the whole system off.



Fig. 2

First Night Operation: On the first evening, after the Arena Light has been primed and fitted, the light will automatically turn on in **M1** mode (see below). **NOTE** – sometimes this will not occur automatically depending on what setting it left our factory in. In this case just press the **On** button on the remote control (Fig. 3). Its important that if you intend to use your light via the remote control (ie only turning it on when you want it illuminated and off when you don't) you return to the light after dark (only on the first night) and press either the 60% or 100% button to increase the brightness and then press the off button once you have finished. Now you can return to the Arena Light any evening and it will only illuminate when you press the **On** button.

Lighting Modes: After the first night of use, the remote control button provides the following functions:

On – turns the light on (at night time only);

Off – turns the light off.

10% – illuminates the light at 10% of its brightness – run time max dusk to dawn (typical winter run times, up to 12 hours per night)

30% – illuminates the light at 30% of its brightness – run time max dusk to dawn (typical winter run times, up to 4 hours per night)

60% – illuminates the light at 60% of its brightness – run time up to 10hrs (typical winter max run times, 2 hours per night)

100% – illuminates the light at maximum brightness run time up to 6 hours (typical winter max run times, 1 hour per night)

In each of the above modes the light can be turned off at any time (by pressing Off) but there is also the option to set the light on a specific timer as follows:

T1 – press this to set any of the above brightness settings for a fixed run time of 1 or 5* hour/s – after 1 or 5 hour/s the light automatically reverts to M1 mode (see below). To cancel the timer mode press and hold T1 for 2 seconds and you will see 3 quick flashes of a red indicator LED on the light to confirm.

T2 – press this to set any of the above brightness settings for a fixed run time of 2 or 6* hour/s – after 2 or 6 hour/s the light automatically reverts to M1 mode (see below). To cancel the timer mode press and hold T2 for 2 seconds and you will see 3 quick flashes of a red indicator LED on the light to confirm.

T3 – press this to set any of the above brightness settings for a fixed run time of 3 or 7* hour/s – after 3 or 7 hour/s the light automatically reverts to M1 mode (see below). To cancel the timer mode press and hold T3 for 2 seconds and you will see 3 quick flashes of a red indicator LED on the light to confirm.

T4 – press this to set any of the above brightness settings for a fixed run time of 4 or 8* hour/s – after 4 or 8 hour/s the light automatically reverts to M1 mode (see below). To cancel the timer mode press and hold T4 for 2 seconds and you will see 3 quick flashes of a red indicator LED on the light to confirm.

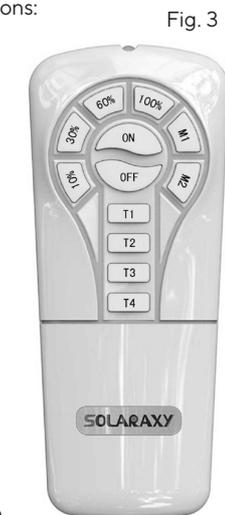


Fig. 3

*To achieve either 5, 6, 7 or 8 hours as previously noted, you must open the back of the remote control, where the AAA batteries are located and you will see a switch – set this to the On position. This means that pressing T1 will provide a 5 hour time, T2 a 6 hour etc.

M1 – Set the light to illuminate up to dawn to dusk at the 10% brightness level and then auto switch to 100% brightness when movement is detected by the lights PIR movement sensor. The light will remain illuminated at 100% for 30 seconds or until the movement has stopped and then revert back to the 10% brightness level. **NOTE** – this function is not advised during the UK winter because the solar panel cannot generate enough power to operate the light even at 10% brightness dawn to dusk.

M2 – Set the light to illuminate up to dawn to dusk at the 30% brightness level and then auto switch to 100% brightness when movement is detected by the lights PIR movement sensor. The light will remain illuminated at 100% for 30 seconds or until the movement has stopped and then revert back to the 30% brightness level. **NOTE** – this function is not advised during the UK winter because the solar panel cannot generate enough power to operate the light at the 30% brightness dawn to dusk.

Tip: If the Arena Light is being used in a sports field eg equestrian arena, 5-a-side football, pitch, tennis court etc the main functions that will be used are **On** (to turn the light on) – **60% or 100%** (to select the brightness) and **Off** (to turn the light off).

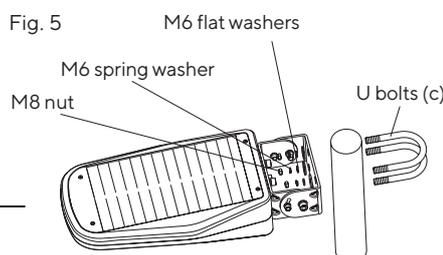
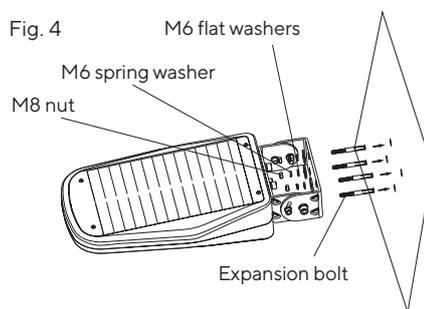
NOTE – any Arena Light remote control will operate any Arena Light – in other words, if multiple Arena Lights are being used, only one remote control needs to be used to operate them all.

6. Fixing Arena Light – Before fixing read point 5

Wall Mounting (Fig. 4): Before starting to mount the Arena Light to the wall, separate the two halves of the bracket by removing (a) and (b) fixings. Remove the two metal spacers from the loose half of the bracket. Using the supplied expansion bolts (if fixing to a cavity or solid wall), or self tapping screws (not supplied) if fixing to a timber wall, attach Arena Light through the four holes in the back of the loose half of the bracket. Once fixed in place, attach Arena Light to the bracket using fixings (a) and (b).

Pole Mounting (Fig. 5): Firstly, decide how to secure the pole, which needs to be a standard scaffold pole or similar. This might be by attaching to an existing post and rail fence or it might be free standing. If free standing, the pole needs to be either cemented into the ground (500mm min) or fixed using the quick release ground mount plate that can be ordered from www.solartechology.co.uk. To fix Arena Light to the pole, loosely secure the U bolts (c) through the four holes in the Adjustment Bracket, then slide the pole through the U bolts and tighten so Arena Light is firmly clamped to the pole. Now position the pole in the ground.

NOTE – when mounting Arena Light try to keep the light head as level as possible because this helps ensure the light does not auto hibernate itself.



7. Storage of Arena Light

Arena Light is fully weather resistant (IP65) and will not deteriorate if permanently left outside, but should you wish to store it, please ensure it is housed away from daylight and turned upside down so the solar panel is facing downward.

8. Charging Times

From new, Arena Light will need a full day's charge, so install early in the morning to allow it to have this initial input. Installing later in the day will cause no problems but will lead to a shorter burn time for the first evening's use.

If Arena has a completely flat battery, it will take 10 hours of sunshine to fully charge it. If the battery is only partially discharged it will take less time. Even if Arena Light has not been fully charged by its solar panel (because of a cloudy day etc), there will still be power in the battery to operate the light that night, but Arena Light will operate for a shorter period.

9. Operation Times

Movement Activated Mode: From a fully charged battery, Arena Light will operate for 25 hours at 10% brightness. This will reduce as 100% brightness is activated by movement, but it is not possible to provide an operation time because of the variable nature of how many activations and for how long.

Timer Mode: If 60% brightness is selected, a fully charged Arena Light will operate for 10 hours and at 100% it will operate for 6 hours.

Winter Operation: This is difficult to predict because of the variable locations that Arena Light may be positioned in but on average, at the 60% brightness, 2 hours illumination per evening should be possible. If longer burn times are needed, it should be accepted that Arena Light can only be used during selected evenings and not every evening. For example, if 4 hours of light is needed, Arena Light should be switched off for a 2 day period to allow its battery to gain enough power to deliver this length of burn time.

10. Warranty

All items in this box are supplied with a 24 month global warranty*. Should a failure occur during this time Solar Technology International Ltd will repair or replace any faulty part, at its discretion.

Solar Technology International Ltd does not accept liability for any 3rd party damage how so ever caused or any costs associated with the return of faulty products.

***Global warranty means if a product is returned to the address below at the sender's expense and a warranty claim is found to be valid, Solar Technology International Ltd will return the repaired or replaced product to the sender at Solar Technology International Ltd's expense irrespective of where the sender is located in the world.**

Helpful Tips

- 1 If using Arena Light to illuminate a horse riding manège or other sports ground on the T1, T2, T3 or T4 modes, we would always suggest turning Arena Light off after use so that power can be stored in readiness for the next time it needs to be used.
- 2 We would recommend that occasionally the solar cell is cleaned, especially if located in a dusty environment. Particulates on the glass surface covering the cell will reduce charging capability. No special chemicals are needed – use warm water and dry after washing to prevent smears on the glass.
- 3 The batteries in the remote control will need to be changed once per year. Standard AAA alkaline batteries are required.
- 4 Arena Light is fitted with a special Lithium battery pack. This has a life expectancy of 5 years and is available from **www.solartechnology.co.uk**. The battery has special connectors fitted which match the connectors within Arena Light.

Warning

Keep Arena Light away from fire and oil in order to avoid any fire or explosion. Any severe shock or impact may result in damage and will invalidate the warranty. It is strictly forbidden to dismantle Arena Light except by Solar Technology personnel or agents appointed by Solar Technology. Any sign of tampering will result in the warranty being terminated.

We want your videos and photos!

Here is your chance for you and your Arena Light/s to be stars. Just send in crazy videos or stills of you and your Arena Light/s in action and bag a fantastic Lumi light absolutely free (worth £15). Remember, the wackier the better!

Please send to **sales@solartechnology.co.uk** and best of luck!

NOTE - we cannot guarantee to publish every entry and only those selected by our marketing department for publication will be awarded a free Lumi. By providing your images you automatically grant us the right to use these images howsoever we see fit.

