

User manual



Arena 2 Light

Model: SMAL002

7. Storage of Arena 2

Arena 2 is fully weather resistant (IP65) and will not deteriorate if permanently left outside but should you wish to store it please ensure the button is pressed on the underside of Arena 2 (Fig2). It is better to do this operation when Arena 2 is illuminated so you can be sure it has been turned off. Store Arena 2 so its solar panel is not exposed to daylight.

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 activation PIR mode: From a fully charged battery, Arena light will operate for 25 hours at 50 lumen 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.

Solid lighting mode: If the 500 lumen brightness is set, a fully charged Arena 2 can operate for 12 hours, 1000 lumen for 6 hours and 1500 lumen for 3 hours.

Winter operation: This is difficult to predict because of the variable locations that Arena 2 light may be positioned in but on average, at the 500 lumen 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.

Alternatively increased run times can be achieved by adding the Arena 2 Expansion Solar Panel, which connects directly into the power socket on the side of Arena 2 (see fig 6). Up to 4 expansion panels can be added and each daisy chain's into the other so there is no complex wiring needed.

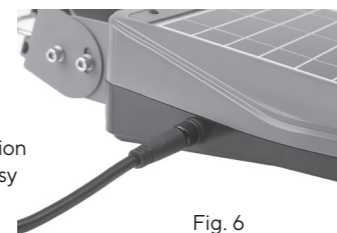


Fig. 6

10. Expansion panels (not included with Arena 2)



The expansion panel will extend winter run times as follows:

Add	500lm brightness	1000lm brightness	1500lm brightness
1 x Expansion panel	7.5hrs	5hrs	2.5hrs
2 x Expansion panels	12hrs	8hrs	4hrs
3 x Expansion panels	12hrs	8hrs	6hrs

11. 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 Always turn Arena 2 off (if in solid light mode) after use to conserve the power in its batteries
- 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 hello@solartechnology.co.uk including your address details 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.

If Arena 2 is used indoors (so its solar panel is not exposed to daylight) the expansion panel will give the following:

Add	500lm brightness	1000lm brightness	1500Lm brightness
1 x Expansion panel	4.5hrs	3hrs	1.5hrs
2 x Expansion panels	9hrs	6hrs	3hrs
3 x Expansion panels	12hrs	8hrs	5hrs



SolarMate®

Total Lighting Solutions

Main Features

1. Installation on pole or wall
2. Adjustable installation angle: 0°/15°/30°
3. Large lighting area
4. Remote control and auto PIR function
5. Lighting time, brightness and movement activation modes
6. 50, 500, 1000 and 1500 lumens

Electric Characteristics

Flat compact solar panel	6.8W, 10 years life span
Li-ion battery	3.7V, 15600mAh
LED	30 LEDs, 1500 lumens max
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	2.5-5m
Material	Aluminium + plastic
Size	450x246x86mm
Working temperature	-25°C to 65°C
Warranty	2 years

1. Contents

- 1 x Arena 2 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 2 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.solartechnology.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.

3. Identifying the best location for the Arena light

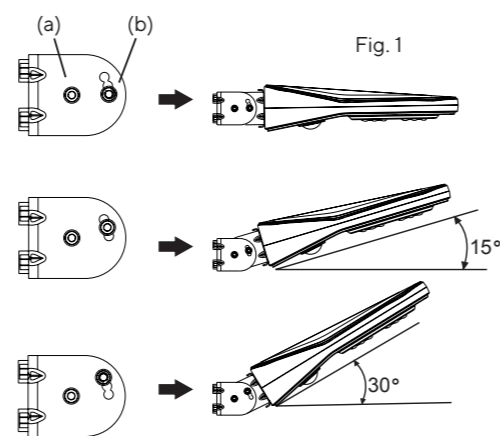
Arena light incorporates a solar cell which needs to face upwards. Wherever possible the solar cell should not be located in shady areas and ideally, when or if tilted, it faces east, south or west. If it faces north, the cell will still deliver power but not as much or as quickly as if facing south.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

Example: For a 40m x 30m arena we recommend a minimum of 6 Arena 2 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).

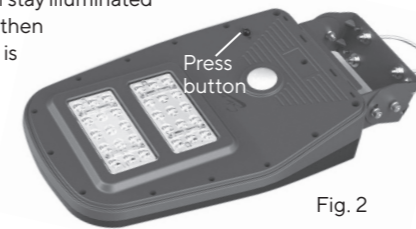
The bolts (b) toward the front of the bracket have three notches enabling the angle to be locked in place. Remove the bolts (b) completely and once the desired notch is reached, replace the bolts (b) and tighten all of the bolts/nuts.



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5. Operation of the 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.



First night operation: On the first evening, after Arena 2 has been fixed into its location it will, by default, operate in its PIR movement activation mode – see below. This means that once it is dark the light turns on during dusk to dawn at a low 50 lumen level and when it detects movement it auto increases brightness to 500 lumen for 30 seconds before going back to the 50 lumen level. If you prefer Arena 2 illuminating only when you require it (solid lighting mode), point the remote control at the light on the first night of operation (when it's dark) and turn it off / on / off by pressing the red power button. The light will now only switch on and off when you press the power button.

Lighting modes

Movement activation – PIR mode

Arena 2 can act as an excellent security light or utility light for car parks, at festivals, construction sites, delivery yards and any location where significant lighting is needed for periods when movement is within 10m range of the Arena 2's PIR detector. There are two lighting modes if you chose the PIR option; **1.** Arena 2 will switch on from dusk to dawn in a low level 50 lumen brightness and then auto switches to 500 lumen when movement is detected for 30 seconds or as long as the movement remains and **2.** As previously noted but without the 50 lumen light – ie Arena 2 is not illuminated at all unless movement is detected. If option 1 is your preferred choice it may be necessary to add an Arena 2 Expansion Panel to the system for winter operation.

Operation

Switch the light on by pressing the button on the underside of the light – see Fig 2. Arena 2 will now be in **PIR mode**. It will, by default, be in the option 1 setting (50 lumen dusk to dawn) but if you want to switch to option 2 (without the 50 lumen light), press the button on the remote control that says 'off' under the heading 'Night-Time Low Light'.

You can switch into **solid lighting mode** by pressing the red power button (when it's dark) and turning it on again. If you do this mode switch, Arena 2 can now only be used in solid lighting mode and operated by the remote control so if you want to switch it back to PIR mode either press the 'on' button under 'Night-Time Low Light' heading or you will need to physically turn the light on and off by pressing the back button under the light shown in Fig 2.

Solid lighting mode

Most useful when you need light for a solid block of time for example illuminating an equestrian arena, riding school, sports field, tennis courts, inside a warehouse or agricultural building etc. Follow the advice given for first night set up.

Now you have some options via the remote control:

Brightness – The Arena 2 remote control provides three levels of brightness – 500lumen, 1000lumen and 1500lumen. Press the **Brightness** button up and down to select your preferred setting.

Note – even though the 1500 lumen brightness is 50% more than the 1000 lumen level it is not a very noticeable change between the two levels but the 1500 lumen is more intense.



Daytime override – The default setting of Arena 2 is that it can only be switched on when its dark. Sometimes it is advantageous to turn the light on before it gets fully dark – for example a 5 a side football match or horse riding school that needs illuminating during early dusk (not quite dark enough to allow Arena to turn on in its default setting). Press the **daytime override** switch to activate day time lighting mode and once Arena 2 is tuned off by the red power button it will automatically reset to only allowing the light to be turned on when its dark by the remote control power button. The daytime override is also useful if Arena 2 is being used to illuminate an indoor space such as a cow shed, warehouse or other large building without mains supply. Used indoors, the integrated solar panel fixed onto Arena 2 will not operate so it will be necessary to purchase the Arena 2 Expansion Solar Panel accessory.

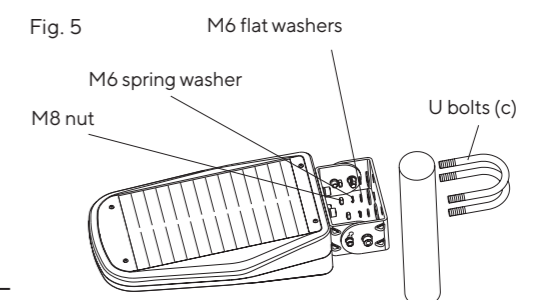
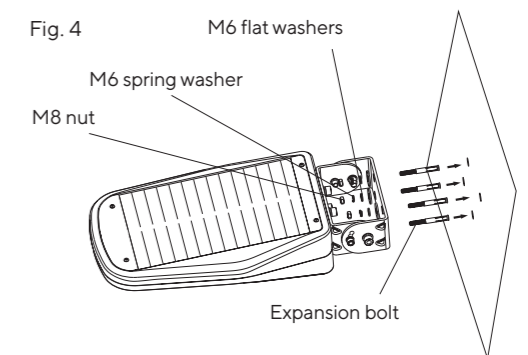
Timer – when Arena 2 is illuminated (in solid lighting mode), if the timer (1H) button is pressed Arena 2 will run for 1 hour and then turn itself off and if the (2h) button is pressed it will run for 2 hours. During either setting the timer can be over ridden and the light turned off by pressing the power button.

Note – any Arena 2 remote control will operate any Arena 2 light – in other words if you have multiple Arena 2 lights you only need take one remote control to activate all. **Arena 2 remote control is not compatible with Arena 1 light.**

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 – see Fig 1. 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.solartechnology.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.



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