

# Operating Instructions



## Solar PIR Wall Spotlight „Power 500“

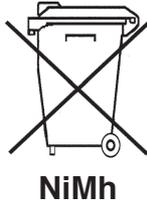
esotec<sup>pro</sup>

### Customer support:

If you have problems or questions regarding this product, simply contact us!  
esotec GmbH, Industriegebiet Weberschlag 9, D-92729 Weiherhammer  
**Monday to Friday 9 am to 12 noon and 1 pm to 4 pm.**  
By phone: +49 9605-92206-0  
By e-mail for ordering spare parts: [ersatzteil@esotec.de](mailto:ersatzteil@esotec.de)  
By e-mail for questions about the product: [technik@esotec.de](mailto:technik@esotec.de)  
**Product: Manufacturer Item No.: 102510**

### Battery take-back

- Batteries must not be discarded into domestic waste.
- The consumer is legally required to return batteries after use, e.g. to public collecting centers or to battery distributors.
- Contaminant-containing batteries are labeled with the sign "crossed-out trashcan" and one of the chemical symbols. Used batteries should be disposed environmentally friendly and should not be discarded into domestic waste. Your dealer is legally required to take back old batteries.



### Rechargeable battery notes

- Rechargeable batteries should not be played with by children. Never leave rechargeable batteries lying around; they could be swallowed by children or pets.
- Rechargeable batteries must never be short-circuited, disassembled or thrown into fire. This leads to a danger of explosion!
- Leaking or damaged rechargeable batteries can cause chemical burns when they come into contact with skin. For this reason, please make use of suitable protective gloves.
- Rechargeable batteries should only be replaced by structurally identical rechargeable batteries from the same manufacturer. Normal batteries must not be used since these are not rechargeable.
- Make sure the rechargeable batteries are inserted with the correct polarity.
- For long periods of time of non-use (for example, storage), remove the inserted rechargeable batteries to avoid damages via the leaking rechargeable batteries.

### Disposal:

Dear customer,  
please cooperate in avoiding waste. When you intend to dispose of the product in future, please consider that it contains valuable raw materials suited for recycling. Therefore, do not dispose of it with domestic waste but bring it to a collection point for the recycling of waste electrical and electronic equipment.



Thank you very much for your cooperation!

## 1. Introduction

Dear customer, we thank you for purchasing the Solar Globelight. With this Solar Light you have purchased a product that complies with the latest and most up-to-date technology.

**CE** This product complies with the European and National Standards. The relevant certificates of conformity are deposited with the manufacturer.

To preserve this standard and in order to maintain safety you must adhere to the use instructions!

## 2. Security Instructions

 In the event of any problems arising or damage occurring from not following these instructions, the warranty is deemed cancelled. The manufacturer will not be held responsible for any claims or damages arising from the misuse of this product.

- For safety reasons and in order to maintain standards (CE) you are prohibited from altering or changing any component in the product.
- Please follow the instructions very carefully.
- For commercial applications due care and attention must be paid to the Health and Safety Standards in your jurisdiction.

## 3. Intended Use and Function

The PIR solar spotlight is suitable for the illumination of forecourts, drives, entrances and a lot of other things. It is designed for year-round outdoor use. The product is designed splash-water-proof and must not be exposed to any direct water jet (e.g. garden hose or high-pressure cleaner) or immersed in water.

The switching time, nightfall and sensitivity of the PIR sensor may be adjusted via rotary controllers. The PIR motion sensor responds to temperature variations, it switches the LED spotlight on and off after a detected motion.

The solar module and the spotlight may be installed on a pole or screwed to a wall.

By means of electronics, the integrated battery pack is protected against any harmful overcharging and deep discharge. In longer periods without sufficient sun it may therefore happen that spotlight is not switched on automatically.

The spotlight may optionally be operated with a second solar module. This second module will provide for a better utilization of the sun even in case of days when the sun is shining only for a short time.

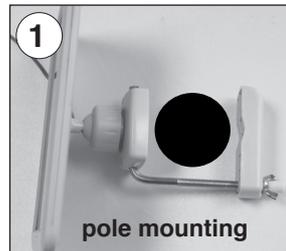
The second solar module is delivered wired ready for connection including a Y-adaptor cable (manufacturer art. No.: 102514, [www.esotec.de](http://www.esotec.de))

Please make sure that the solar module is preferably directed to the South and that shadows are avoided. When directing the module to the North it is not possible to use the product. The solar module shall always be free of snow in the winter. The battery pack has to be exchanged every 2 years at the latest.

Note: Please avoid unnecessary faulty switching. The PIR spotlight is e.g. activated by free ranging pets because the PIR sensor responds to temperature variations! Please take this fact into account when looking for the place of installation.

## 4. Assembly and Putting into Operation

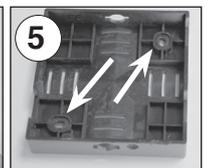
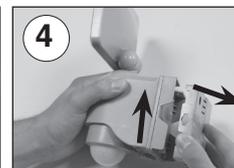
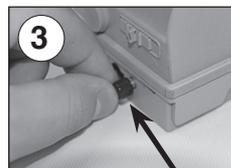
1. Please carefully take all parts out of the package and unwrap the accessories.
2. Choose an appropriate assembly site for the spotlight and the solar module. The spotlight and the module may be screwed to a wall or installed on a pole.
3. Assembly of the solar module.



### 4.1 Mounting of the LED spotlight on the wall

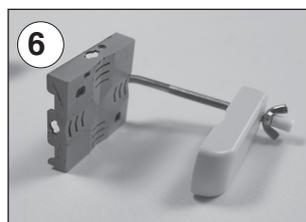
Unscrew the safety screw at the bottom of the spotlight (illustration 3).

1. Remove the rear panel of the spotlight (illustration 4).
2. Now assemble the rear panel with 2 screws and snap the spotlight back onto the rear panel (illustration 5).
3. Now screw the safety screw back in.



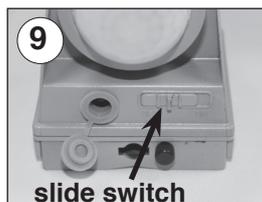
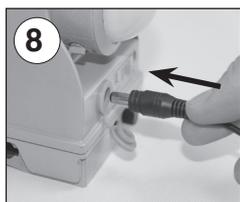
### 4.2 Assembly of the LED spotlight on a pole or post

1. By means of the fixing rod it is possible to horizontally or vertically install the spotlight on a pole or post.

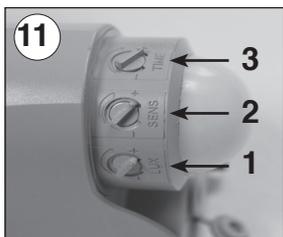
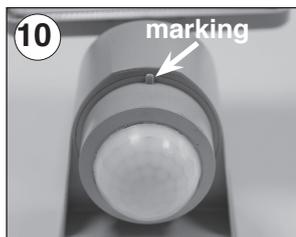


- Now, insert the plug of the solar module into the socket of the spotlight (protected by a rubber lid) (illustration 8). Switch on the spotlight via the rocker switch. (ON) (illustration 9). The solar spotlight is now activated.

**Note:** The LED light is very bright. In order to avoid damage to the eyes, please do not look directly into the light!



- The spotlight may be adjusted horizontally and vertically as required.
- The motion sensor may also be adjusted horizontally. The marking on the housing of the motion sensor situated on the opposite site of the adjustment knobs serves for the adjustment of the detection range. In doing so, the notch is considered as the center of the detection range. The three adjusting controllers are turned towards the back while the spotlight is in operation!



#### 4.3 Setting options of the motion sensors:

- Lux.:**  
Setting of the switching-on threshold of the PIR sensor.  
- **Min.:** activation at night  
- **Max.:** activation at day(light) and night

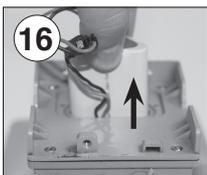
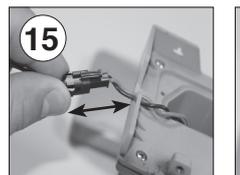
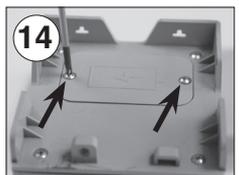
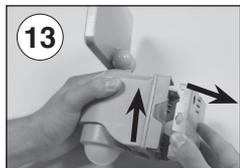
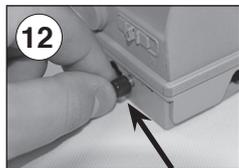
- Sens.:**  
Setting of the sensitivity of the PIR sensor:  
- **Min.:** detection range approx. 3 m  
- **Max.:** detection range approx. 10 m

- Time:** Setting of the light ON time after the last detection:  
- **Min.:** Approx. 20 sec. after every detection  
- **Max.:** Approx. 58 sec. after every detection

**Note:** During the winter months please generally expect a shorter light ON time. If the lamp should not shine on the first evening, please wait for a sunny day.

#### 5. Exchange of the battery pack

After one to two years, the capacity of the battery pack will decrease. It is then required to exchange the battery pack. A new battery pack is available in the Internet (art. No.: **901008**, NiMh 6 V/ 2400 mAh) under [www.esotec.de](http://www.esotec.de).



- Switch off the spotlight by moving the slide switch into the position „OFF“.
- Disconnect the solar module and unscrew the safety screw at the bottom of the spotlight (illustration 12).
- You may remove the spotlight from the assembly platform by slightly lifting it off (illustration 13).
- Unscrew the two safety screws at the back side of the spotlight and remove the battery compartment cover (illustration 14).
- Unplug the plug of the battery pack and remove the battery pack (illustrations 15 +16).

- Re-insert the new battery pack and plug the plug on of the battery pack **with correct polarity**.
- Now close the housing in reverse order. When closing the lid, please make sure that the gasket is positioned correctly. .
- Mount the spotlight in its place and re-insert in the cable of the solar modules. Put the switch back into position “ON”.
- The spotlight is now ready for operation again.

**Note:** Used batteries or accumulators must be disposed of in a non-polluting way and do not belong into the domestic waste. Your dealer is legally obliged to take back the old accumulators.

#### 6. Malfunctions

##### The lamp is not activated at darkness

- is the lamp switched on?
- A source of extraneous light (e.g. street lamp) simulates daylight and prevents the activation. Place the lamp at a darker place or change the setting „Sens“.

##### The lamp is not switched on at darkness at all or only for a short time?

- Is the battery pack inserted?
- Is the spotlight switched on
- Battery weak or defective?  
Exchange of the battery pack every 2 years at the latest!

##### Lamp is activated at night again and again without any movement of persons:

- Are there any domestic or wild animals within the detection range? Possibly change the setting „Sens“!
- Are there any large trees within the detection range which may possibly cause temperature variations within the detection range? Possibly change the setting „Sens“!
- Corner mounting? In case of corner mounting and occurring winds it may happen that the temperature of the sensor varies which may result in faulty switching operations. Possibly change the setting „Sens“ or look for another place of installation!

#### 7. Technical Data

##### Solar module:

- Solar cells: Polycrystalline behind glass (manufacturer: Kyocera)
- Capacity: 2 Wp
- Nominal voltage: 7,7 V
- Nominal current: 245 mA
- Type of protection: IP 44
- Protection class: III
- Operating temperature: -20°C to +40°C
- Cable length: 5 m

##### LED spotlight:

- Luminous flux: 500 lm
- Light color: 2800 K (warm white)
- Max. detection range PIR sensor: 140°/ 10 m
- Twilight switch (LUX): Adjustable: day and night until night
- Light ON time after detection: Adjustable: 20 sec. to 58 sec.
- Sensitivity setting: Adjustable: 3 m to approx. 10 m
- Light ON time: in total max. 2 hours with a fully charge battery pack
- Type of protection: IP 44
- Protection class: III
- Operating temperature: -20°C to +40°C
- Operating voltage: 6 V
- Battery pack: NiMh 6 V/ 2000 mAh  
(spare part art. No: 901008, [www.esotec.de](http://www.esotec.de))

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