

## Using Instructions



These instructions relate **ONLY** to this product and contain important information for using the product for the first time. Please keep these instructions for later reference and should always accompany the product in the event of transference to a new user.

### 1. Introduction

Dear Customer,

Thank you for purchasing the solar light. With this solar light you purchased a product manufactured according to the current state of technology. **This product fulfils all requirements of the valid European and national regulations. The conformity was proved. The relevant declarations and documentation are deposited with the manufacturer.**

To maintain this state and guarantee a safe operation, you as the user will have to follow this operating manual!

### 2. Safety Instructions



- In case of damages caused by not following this operating manual, the warranty rights will expire! We exclude liability for any consequential damages!
- We exclude liability for property or personal damages caused by inappropriate handling or not following the safety instructions.

- In these cases any guarantee rights will expire.

Due to safety and admission reasons (CE) it is not allowed to arbitrarily reconstruct and/or change the solar light.

Therefore, please keep to the operating manual.

### 3. Usage in Accordance with Requirements

The light is automatically switched on at darkness and switched out in the

morning light. The maximum illumination duration with a full accumulator and without charging is approximately 8 hours. The solar module installed in the upper part of the housing charges the integrated accumulator.

Switch1 (the main switch) is used to switch on and off the whole set. In the position of "off", the battery cannot be charged.

Switch 2 is used to switch on and off the illumination and in the position of "A", the battery can be charged and the illumination is off. In the position of "C", the battery is charged and the illumination on.

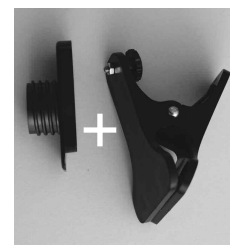
The LED rope is suitable for outdoor usage. **This LED net cannot be sunk into water.** The solar module may be installed on a pole, inserted into the ground or screwed to the wall. The product is designed for the application in a private environment.

**Note:** 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.

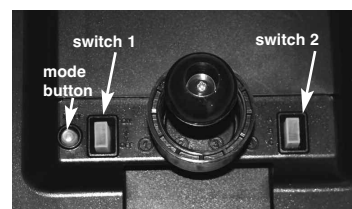
### 4. Installation and Initiation

1. Please carefully take all parts out of the package and lay out the net.
2. Please fix down the LED net on the wall, the fence or the pavilion etc. please pay attention to the "marginal" net with the cables cannot be placed too near from one another. If the voltage is too large, you can remove the cable or demolish the solder joints of LEDs. It is just designed for the use in the outdoor areas but please notice that the net can not be permanently submerged into water (pond, etc). For the convenience of the installation, the light is preferably removed from the module.
3. Now look for a suitable place for installing the solar module within the cable range. Please ensure that the solar module is placed pointing southwards and that no shadows falls on it. The solar module can be installed on the ground or snapped in place to the ground or wall or on poles using a retaining plate. Using the ball-and-socket joint, the solar module can be optimally aligned in the direction of sun.

**Note:** During the winter months the duration of illumination will generally be shorter. If the lamp should not shine on the first evening, please wait for a sunny day.



4. Now push the switch 1 (main switch) on the back side of the solar module to the position "ON". The LED net is now activated.



5. Via the mode switch on the back of the module, the LED light of the net in different light modes (different blinking light, continuous light) is controlled.

6. Switch 2 (power switch): in the position "C" the LED net can be turned off. In the day the battery is charged but at night the net is not lighted. In this way for several days you can continuously store energy from the sun in the battery. Then set the switch to the position "A", the illumination is on.

**Note:** During the winter month the duration of illumination will generally be shorter. If the lamp should not shine on the first evening, please use Switch 2 to store energy for several days.

### 5. Lighting modes (Smart program)

This product has a built-in microchip and controls the lighting depending upon the charging status of the batteries. The greater the charge in the batteries, the brighter is the light from the LEDs. Following list shows the current as a function of the charging status of the batteries and the lighting duration. After glowing for about 8 hrs, the light switches off automatically.

Using the Mode button at the back of the module, the individual flashing modes can be setup.

Battery voltage	3,8 V (100%)	3,4 - 3,8 V (80%)	3,0 - 3,4 V (50%)
Lighting duration	Current	Current	Current
1. hour	100%	80%	50%
2. - 4. hour	87%	70%	44%
5. - 6. hour	75%	60%	37%
7. - 8. hour	50%	40%	25%

**There are a total of 8 lighting modes in the following sequence:** Press the Mode key for changing the mode each time. A mode which is setup is retained permanently.

1. Lighting mode cycles from 2 to 8
2. Continuous light
3. - 8. Different flashing light

#### 5.1 Continuous light

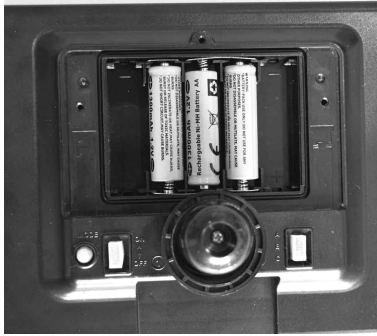
If you press the Mode button for longer than 3 seconds the LEDs glow continuously. The lighting duration is a maximum of 8 hrs and then the light is switched off. This mode is stored and repeats on the next day. Note: The continuous lighting mode uses up maximum energy and hence should be chosen only at those times when the sun is shining brightly.

## 6. Exchange of batteries

After one or two years, the capacity of the battery is down and must be exchanged. The batteries are commercially available from the manufacturer.

1. Unscrew the 4 screws on the back side of the solar module and remove the cover.
2. Remove the battery from the holder.
3. Insert the new battery with correct polarity and close the housing in reverse order.

**Note:** Used batteries 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 batteries.



## 7. Malfunctions

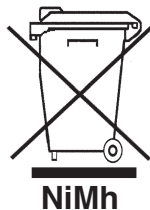
- **Lamp is not automatically switched on at darkness**
- An outside light source (e.g. streetlight) simulates daylight and prevents the lamp from switching on. Place the lamp at a darker location.
- **Lamp is not switched on at darkness or only for a short period of time.**
- Is the lamp connected?
- Accumulator weak or defective. Exchange of the accumulators.

## 8. Specifications

- Operating voltage: 3,6 V
- Power Solarmodule: 2 Wp
- Battery: 3 pcs. NiMh 1.2 V/1300 mAh AA-size
- Illuminating units: 200 LEDs
- Illumination time with a full battery: Max. 8 h instant light

### 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.



### Customer support:

If you have problems or questions regarding this product, simply contact us!  
**Monday to Friday 8 am to 12 noon and 1 pm to 4 pm.**

By phone: 09605-92206-27

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: LED netlight warmwhite: Manufacturer Item No.: 102068**

**Product: LED netlight color light: Manufacturer Item No.: 102070**

## 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!

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