

# Operating Manual

## Solar Underwater Spotlight "Super Splash"



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.

**CE** 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.

The accident prevention rules of the association of the industrial trade cooperative association for electric plants and working material are to be considered in industrial environments.

### 3. Intended Use and Function

The solar underwater spotlight is designed for outdoor operation.

The 6 spotlights are designed in protection class IP 68 and may therefore be used under water.

The solar module is designed in protection class IP 44 (splashproof) and may also be used outdoors. Immersing the solar module into water is not permitted. The individual cable splices shall always be connected firmly and the respective protective cap shall always be closed tightly. The spotlights have to be taken out of the water during the winter and in case of frost. This product is constructed in protection class III (protective extra-low voltage).

The light is automatically switched on at darkness and is switched off in the morning light or when the batteries are discharged. The maximum duration of illumination with a full battery and without recharging amounts to approx. 8 hours. The solar module installed in the upper part of the housing charges the integrated storage battery. The illumination may be switched on and off via a switch on the back side of the solar module.

This product is not a toy and is designed for use in a private environment.

**Note:** Make sure that the solar module is preferably faced to the South and that shadows are avoided. The product can not be used when faced to the North.

### 4. Start-up

1. Carefully take out the parts from the package and unwrap the accessories.

2. The 6 LED light rings may be attached to the disc holders. This disc may then be filled with small stones in order to better fix the disc in the pond.



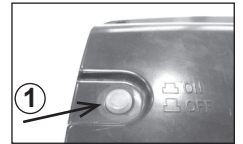
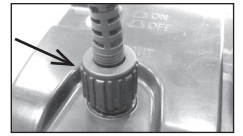
3. Now look for an appropriate place where to mount the solar module within reach of the spotlights. Please make sure that this place faces

south and that no shadow falls onto the solar module. The solar module may be inserted into the ground by means of a ground spike. The ball joint is used in order to optimally adjust the solar module towards the sun.

4. Now connect the spotlights, T-pieces according to the drawing below.  
**Note:** The plugs are moisture-proof. Firmly connect the plugs, pay attention to a secure seat of the gasket at the plug and firmly close the screw cap.

5. Now insert the plug into the socket on the back side of the solar module.

6. Now put the switch (1) on the back side of the solar module into the position "ON". The solar spotlights are now activated.



### 5. LED Display

A red LED is installed apart from the ON-/OFF-switch on the back of the solar module. In position "ON", the red LED flashes if the integrated batteries are charged by the solar module. At darkness and when the underwater spotlight is switched on, the LED will change into a permanent light.

This LED display serves for the function check of the solar module.

### 6. Exchange of the Storage Batteries

The capacity of the batteries will become weak after one to two years which requires an exchange of the batteries. The batteries are available from your (local) dealer or the manufacturer.

1. Unscrew the 4 screws on the back of the battery compartment and remove the cover.
2. Remove the batteries from the holders.
3. Insert the new batteries with correct polarity and close the housing in reverse order.



**Note:** Used batteries have to be disposed of in an environmentally sound way and do not belong into the household waste. Your dealer is required by law to take back old batteries.

### 7. Malfunctions

#### Lamp is not activated/switched on at darkness

- Is the lamp switched on? Are the plugs of the spotlights inserted firmly?
- A source of extraneous light (e.g. street lamp) simulates daylight on the solar module and prevents the activation. Place the lamp at a darker place.

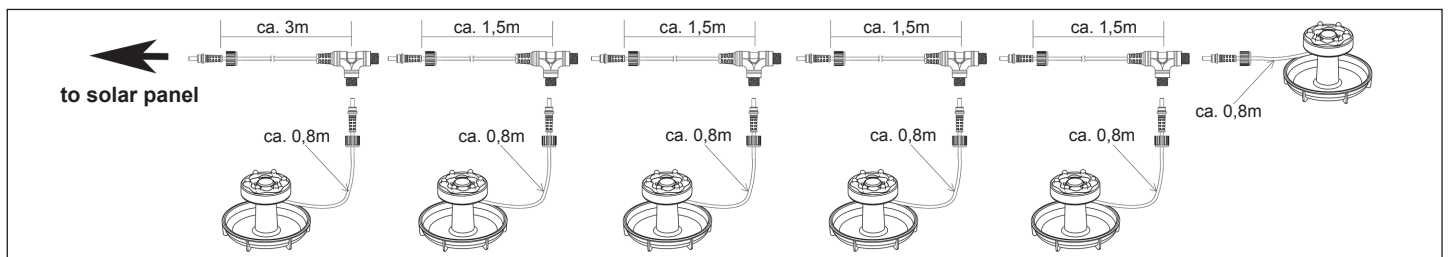
#### At darkness, the lamp is not activated at all or only for a short time.

- Incorrect polarity when exchanging the batteries?
- Battery weak or defective? Exchange the batteries or charge them with a commercially available battery charger!
- Are the plug connections of the spotlights inserted tightly?

### 8. Technical Data

- Operating voltage: 6 V
- Power solar module: 2.2 Wp
- Protection type: Solar module IP 44, underwater spotlight: IP 68
- Protection class: III (protective extra-low voltage)
- Batteries: 5 pieces NiMH 1.2 V/1500 mAh (Mignon AA)
- Illuminants: 36 white light emitting diodes (LED)
- Light color: 6000 K
- Luminous flux: 6 x 5 lm
- Duration of illumination: max. 8h with a fully charged set of batteries

If the spotlights are used underwater during the winter, protect them against frost!



## 9. 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.

### manufacturer/distributor respectively importer/ customer service/ spare parts:

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e-mail: info@esotec.de Internet: www.esotec.de  
**Product item-Nr: 102150**

## 10. Disposal

### a) Product



Electronic devices are recyclable waste and must not be disposed of in the household waste.

At the end of its service life, dispose of the product according to the relevant statutory regulations.

Remove any inserted rechargeable batteries and dispose of them separately from the product.

### b) Rechargeable batteries



You as the end user are required by law (Battery Ordinance) to return all used rechargeable batteries. Disposing of them in the household waste is prohibited. Contaminated rechargeable batteries are labelled with this symbol to indicate that disposal in the domestic waste is forbidden. The designations for the heavy metals involved are: Cd = Cadmium, Hg = Mercury, Pb = Lead (name on rechargeable batteries, e.g. below the trash icon on the left).

Used rechargeable batteries can be returned to collection points in your municipality, our stores or wherever rechargeable batteries are sold.

You thus fulfil your statutory obligations and contribute to the protection of the environment.

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