

Operating instructions

Solar floodlight duocolor

Item No.: 102704



This operating manual belongs exclusively to this product. It contains important information on commissioning and handling. Please observe this even if you pass this product on to third parties.

Therefore, please archive this operating manual for future reference.

1. Introduction

Thank you for purchasing this product. You have purchased a product that has been manufactured according to the latest technical standards. In order to maintain this condition and ensure safe operation, you as the user must observe these operating instructions.

2. Function and intended use

The solar spotlight is designed for year-round outdoor use. It is made of high-quality materials, guaranteeing many years of reliable service.

The solar module must be positioned so that it is not shaded from the sun. It can be mounted using a ground spike or a bracket with screws. A south, east or west facing position is recommended. Shady north-facing positions are not suitable for solar lights.

The built-in batteries are charged by the solar module integrated into the upper section. The solar module consists of high-quality crystalline solar cells and is laminated behind glass to make it completely weather-resistant.

The spotlight is connected to the solar module via a cable with a plug connection. It can be mounted in the ground using a ground spike or on the wall using a bracket with screws. Powerful light-emitting diodes (LEDs) are used as the light source. These LEDs guarantee high luminous intensity with low power consumption and a service life of over 30,000 hours. The spotlight must not be submerged in water!

The spotlight is equipped with warm white and cool white duocolor LEDs. This means that the light colour can be selected between warm and cool white. The product can be used outdoors all year round. The solar module must be kept free of snow.

Note: During longer periods without sunlight, the battery will not be sufficiently charged by the sun and the light will not work in the evening. However, this does not mean that the solar light is defective. Wait for the next sunny days and the light will work again as normal.

The battery needs to be replaced every 3-4 years on average!

3. Safety instructions



The warranty shall be void in the event of damage to the product caused by failure to observe these operating instructions. We shall not be liable for any consequential damage resulting therefrom. The same shall apply to damage to property or personal injury caused by improper handling or failure to observe the safety instructions.

a) General

- The product must not be modified or altered. Doing so will not only invalidate the approval/warranty, but may also lead to safety issues.
- Ensure that the product is kept out of the reach of children; it is not a toy!
- Caution, LED light! Do not look into the LED light beam! Do not view directly or with optical instruments!
- The product must not be subjected to mechanical stress. Handle the product with care, as it will be damaged by knocks, blows or even falling from a low height.
- Keep packaging material away from children, as it could become a dangerous toy for them.
- If the product is damaged or no longer works, stop using it and have it checked by a specialist or dispose of it in an environmentally friendly manner.
- If you have any questions that are not answered in this operating manual, please contact us or another specialist.

b) Battery

The solar light is delivered with a battery already installed (for model/type, see the „Technical Data“ section). This is charged automatically depending on the amount of sunlight reaching the solar module.

The battery is replaceable (e.g. if its capacity decreases after a long period of use). Therefore, please observe the following safety instructions regarding the battery:

- Batteries must be kept out of the reach of children. If a battery is swallowed, there is not only a risk of suffocation, but the components are also harmful to health (e.g. risk of chemical burns or poisoning). In such cases, seek medical attention immediately!
- Never short-circuit batteries, disassemble them or throw them into fire. There is a risk of fire and explosion!

- Batteries must not become damp or wet.
- Never damage the outer casing of the batteries. Not only can this cause hazardous substances to leak, but there is also a risk of explosion due to a short circuit.
- If liquids or other substances leak from the batteries (e.g. due to damage, ageing or deep discharge), they can cause chemical burns or other skin damage if touched. Therefore, always wear suitable protective gloves. Surfaces or objects that come into contact with liquids/substances leaking from a battery may also be damaged. Always use a suitable protective mat.
- A damaged, leaking or swollen battery must not be recharged. There is a risk of explosion! Dispose of such batteries properly.
- Before disposing of a battery, cover any exposed connection contacts with a piece of adhesive tape to prevent a short circuit, e.g. in the waste disposal container. A short circuit poses not only a risk of explosion but also a fire hazard.
- When replacing the built-in battery, only use identical Lilon batteries and always replace all batteries.
- Never insert a non-rechargeable battery into the solar light; only use a suitable rechargeable battery.
- The charging electronics in the product are designed for Li-ion batteries. Using a different type of battery may result in fire or explosion!

4. Commissioning

Select a location for the solar module that is exposed to full sun for as long as possible and is free of shade. This is the only way to ensure that the battery is sufficiently charged via the solar module.

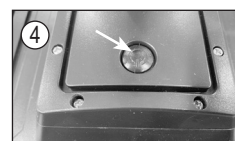
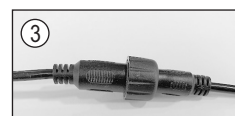
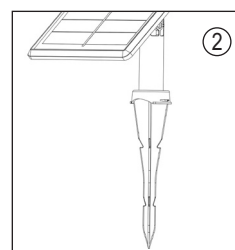
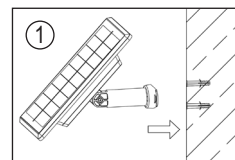
➔ Ensure that there are no other light sources (e.g. outdoor or street lights) near the solar light when it is dark, as otherwise the solar light will not switch on.

1. Carefully remove the parts from the packaging.
2. Determine the installation location for the solar module and spotlight within reach of the cable. The spotlight and solar module can either be screwed to the wall (Figure 1) or stuck into the ground using a ground spike (Figure 2).
3. After installation, connect the cable from the solar module to the spotlight. Then secure the plug connection with the union nut (Figure 3)!
4. The light colours (warm white or cool white) can be changed by pressing the on/off switch (Figure 4) several times. This setting is made at night or when the solar module is darkened.

➔ **Note:** The batteries are also charged in the „OFF“ position!

➔ **Note:** The lighting duration is highly dependent on the intensity and duration of sunlight during the day. In the winter months, a shorter lighting duration is generally to be expected. If the light does not come on on the first evening, please wait for a sunny day.

➔ **Note:** The cover of the spotlight and solar module is made of glass. There is a risk of injury if it breaks!



5. Maintenance + Care

a) General

Use a soft, dry, lint-free cloth for cleaning.



Never use aggressive cleaning agents. These can damage the surfaces.

b) Solar panel

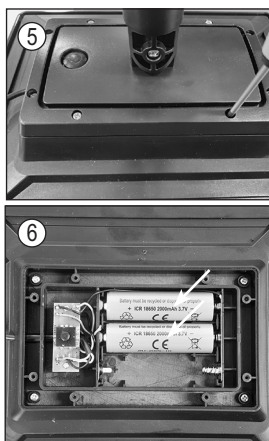
Clean the surface of the solar module with a soft cloth dampened with water. Never press hard on the surface, as this could break the protective glass or the solar module.

c) Changing the rechargeable batteries

On average, the batteries in the solar module need to be replaced every 3-4 years with new batteries of the same type and design. Two Li-Ion batteries with 3.7 V/2000 mAh are used here. Replacement batteries are available from your dealer or from the manufacturer at www.esotec.de.

Please proceed as follows when exchanging the batteries:

1. Press the „ON/OFF“-switch at the back of the solar module firmly in (picture 4) and switch off the lamp.
2. Release the plug connection between the solar module and the LED spotlight.
3. Loosen the screws of the cover on the back of the solar module (picture 5) and remove the cover.
4. Remove the batteries carefully from the battery compartment (picture 6) and insert 2 new full charged batteries of the same construction into the battery compartment with the **correct polarity** (battery type used: Li-Ion 3.7 V/ 2000 mAh).
5. Now put the lamp back into operation in reverse order.



Note: Used batteries or accumulators must be disposed of in an environmentally friendly manner and should not be disposed of with household waste. Your dealer is legally obliged to take back the old batteries.

6. Malfunctions

Lamp does not switch on at night!

Remedy: Is the switch at the rear of the solar module switched on?

Remedy: Battery in the lamp has reached the end of its service life? As a rule, the batteries must be replaced with identical types every 3-4 years!

Remedy: Is the solar module illuminated by extraneous light (e.g. spotlight)? Position the solar module in a darker place!

7. Disposal

a) General



All electrical and electronic equipment placed on the European market must be marked with the waste bin symbol shown on the left. This symbol indicates that this equipment must be disposed of separately from unsorted municipal waste at the end of its service life.

Every owner of old appliances is obliged to dispose of them separately from unsorted municipal waste. You are also obliged to separate old batteries and accumulators (which are not enclosed in the old appliance) and lamps from the old appliance before handing them in at a collection point, provided this can be done without causing damage.

Distributors of electrical and electronic equipment are legally obliged to take back old appliances free of charge. We offer the following free return options (further information is available on our website):

- at the collection points we have set up

at the collection points of public waste disposal authorities or at the take-back systems set up by manufacturers and distributors within the meaning of the ElektroG (Electrical and Electronic Equipment Act)

The end user is responsible for deleting personal data on the old device to be disposed of. Please note that in countries outside Germany, additional obligations may apply to the return and recycling of old devices..

b) Rechargeable batteries

As an end user, you are legally obliged (under the Battery Ordinance) to return all used rechargeable batteries/batteries; disposal in household waste is prohibited.



Batteries containing harmful substances are marked with the adjacent symbol, which indicates that they must not be disposed of with household waste. The designations for the relevant heavy metal are: Cd=cadmium, Hg=mercury, Pb=lead, Li=lithium (the designation is printed on the batteries, e.g. under the rubbish bin symbol shown on the left).

You can return your used batteries free of charge to your local collection points or anywhere that sells batteries. By doing so, you are complying with legal requirements and contributing to environmental protection.

Important: Exposed contacts on batteries must be completely covered (e.g. with a piece of tape) before disposal to prevent short circuits. Even empty batteries can be dangerous if they short-circuit due to the residual energy they contain (bursting, leakage of liquids/acid, excessive heating, fire, explosion).

8. Technical data

• Solar module:	5 Wp polycrystalline
• Illuminant:	28 LEDs
• Light colours:	3000 K / 6000 K
• Luminous flux	300 lm
• Lighting duration: max.	12 hours with fully charged battery
• Replacement battery:	2 pcs. Li-Ion 3.7 V/ 2000 mAh (type 18650)
• Protection class:	Solar panel IP 54, Floodlight IP 66
• Protection class:	III

All spare parts can be found at www.esotec.de

Legal notice

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Customer service:

If you have any problems or questions about this product, please contact us!

Telephone: 09605/92206-0 (Current telephone hours can be found at: www.esotec.de)

Email for spare parts orders: ersatzteil@esotec.de

Email for questions about the product: technik@esotec.de