

# UV TRACKMASTER WF/NF



**EN**

**OPERATING MANUAL**  
HAND-HELD UV-A LAMP

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**Notes regarding the operating manual**


**Symbols**


 **Warning of electrical voltage**  
This symbol indicates dangers to the life and health of persons due to electrical voltage.


 **Warning**  
This signal word indicates a hazard with an average risk level which, if not avoided, can result in serious injury or death.


 **Caution**  
This signal word indicates a hazard with a low risk level which, if not avoided, can result in minor or moderate injury.

**Note**  
This signal word indicates important information (e.g. material damage), but does not indicate hazards.

 **Info**  
Information marked with this symbol helps you to carry out your tasks quickly and safely.

 **Follow the manual**  
Information marked with this symbol indicates that the operating manual must be observed.

 **Wear safety glasses**  
Information marked with this symbol indicates that you should wear eye protection.

 **Warning**  
Information marked with this symbol indicates that the device generates UV radiation. Information about how you have to protect yourself from UV radiation will be provided to you.

You can download the current version of the operating manual and the EU declaration of conformity via the following link:



UV-Trackmaster WF



<https://hub.trotec.com/?id=43502>


UV-Trackmaster NF



<https://hub.trotec.com/?id=43501>

**Safety**

**Read this manual carefully before starting or using the device. Always store the manual in the immediate vicinity of the device or its site of use!**

 **Warning**  
**Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and / or serious injury. **Save all warnings and instructions for future reference.**  
This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

- Do not use the device in potentially explosive rooms.
- Do not use the device in aggressive atmosphere.
- Protect the device from permanent direct sunlight.
- Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.
- Do not open the device.
- Observe the storage and operating conditions as given in the Technical data chapter.

## Intended use

Only use the device for the irradiation of objects for the purpose of detecting cracks or leaks.

Only use the device in accordance with the technical data.

To use the device for its intended use, only use accessories and spare parts which have been approved by Trotec.

## Improper use

The device must not be pointed at people or animals. Do not use the device in potentially explosive areas. Do not use the device underwater.

Any unauthorised changes, modifications or alterations to the device are forbidden.

## Personnel qualifications

People who use this device must:

- use the UV lamp in accordance with safe working procedures.
- be aware of the dangers that occur when working with UV lamps.
- wear UV protection glasses.
- wear covering clothing.
- have read and understood the operating manual, especially the Safety chapter.

## Instructed person

Instructed persons have been informed of the tasks they were entrusted with as well as of potential hazards resulting from inappropriate behaviour. They are allowed to operate and transport the device and to perform simple maintenance activities (cleaning the housing).

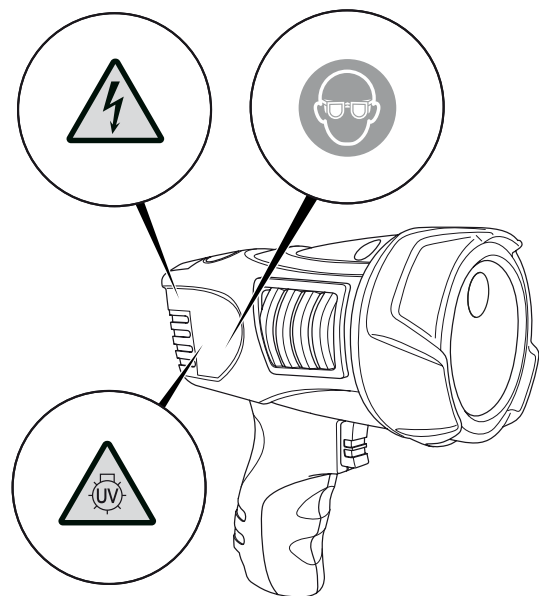
The device is to be maintained and looked after by instructed personnel.

## Safety signs and labels on the device

### Note

Do not remove any safety signs, stickers or labels from the device. Keep all safety signs, stickers and labels in legible condition.

The following safety signs and labels are attached to the device:



### Warning of electrical voltage

Indicates a hazard due to electric voltage. Never open the battery compartment when the power adapter is connected. Disconnect the device from the power adapter before opening the battery compartment!



### Warning

Danger from UV radiation!

The device generates UV-A radiation. Wear UV protection glasses and covering clothing when using the device.



### Wear safety glasses

Wear appropriate eye protection when working with the device.

**Residual risks**



**Warning of electrical voltage**

There is a risk of a short-circuit due to liquids penetrating the housing!  
Do not immerse the device and the accessories in water. Make sure that no water or other liquids can enter the housing.



**Warning of electrical voltage**

Work on the electrical components must only be carried out by an authorised specialist company!



**Warning of electrical voltage**

Before any work on the device, remove the mains plug from the mains socket and the battery from the device!  
Hold onto the mains plug while pulling the power cable out of the mains socket.



**Warning of explosive substances**

Do not expose the battery to temperatures above 45 °C! Do not let the battery come into contact with water or fire! Avoid direct sunlight and moisture. There is a risk of explosion!



**Warning**

Danger from UV radiation!  
The device generates UV-A radiation. Wear UV protection glasses and covering clothing when using the device.



**Warning**

Risk of suffocation!  
Do not leave the packaging lying around. Children may use it as a dangerous toy.



**Warning**

The device is not a toy and does not belong in the hands of children.



**Warning**

Dangers can occur at the device when it is used by untrained people in an unprofessional or improper way!  
Observe the personnel qualifications!



**Caution**

When drying, dyes – especially uranine – can leave residues on surfaces.  
Wash the respective surfaces after the application.



**Caution**

Keep a sufficient distance from heat sources.

**Note**

To prevent damages to the device, do not expose it to extreme temperatures, extreme humidity or moisture.

**Note**

Do not use abrasive cleaners or solvents to clean the device.

**Information about the device**

**Device description**

The UV-Trackmaster generates UV-A light in the 365 nm range.

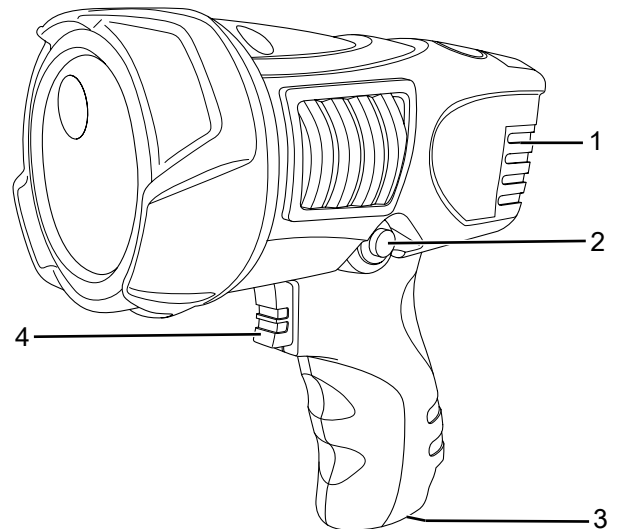
Possible applications of the device are:

- checking for cracks or fissures using fluorescent testing agents
- leak detection with fluorescent liquids
- localisation of UV active substances

In order to obtain a better fluorescence excitation, the UV-Trackmaster is equipped with an integrated band-pass filter which filters out the white light component yet provides maximum UV translucency.

Moreover, the UV-Trackmaster comes with a torch function for a better orientation in poorly lit surroundings.

**Device depiction**



No.	Operating element
1	Battery compartment
2	Torch button
3	Connection for the charger
4	UV lamp button

## Technical data

Parameter	Value
Model	UV-Trackmaster WF/NF
Weight incl. batteries	780 g
Dimensions (H x W x D)	169 mm x 171 mm x 90 mm
Start-up time	0.5 s
Power	15 W
Power supply	4 NiMH baby cells, 1.2 V, 4000 mAh
External power adapter	110 – 240 V 800 mAh
Light source	3 x UV LED
Lamp lifetime	> 10,000 h
Wavelength UV-A light	365 ± 5 nm
Aperture angle of LED lenses	UV-Trackmaster WF: approx. 11° UV-Trackmaster NF: approx. 7°
Radiation intensity (at a distance of 38 cm)	UV-Trackmaster WF: 22,000 µW/ cm <sup>2</sup> UV-Trackmaster NF: 29,000 µW/ cm <sup>2</sup>
Share of white light in UV	5 to 8 lux
Filter cover	borosilicate
Operating temperature	10 °C to 30 °C
Storage temperature	10 °C to 30 °C
Safety shutdown	70 °C
Type of protection	IP 53
Torch	>5000 lux
Risk class (according to DGZfP/ BGFE EM6) [German Society for Non-Destructive Testing and institution for statutory accident insurance and prevention in the precision engineering and electrical industry]	3

## Scope of delivery

- 1 x UV-Trackmaster WF/NF
- 4 x NiMH 4000 mA baby cell type batteries
- 1 x Charger (only for charging the batteries in the device, not suitable for mains operation)
- 1 x Transport case
- 1 x Quick guide

## Transport and storage

### Note

If you store or transport the device improperly, the device may be damaged.

Note the information regarding transport and storage of the device.

### Transport

For transporting the device, use the transport case included in the scope of delivery in order to protect the device from external influences.

### Storage

When the device is not being used, observe the following storage conditions:

- dry and protected from frost and heat
- protected from dust and direct sunlight
- For storing the device, use the transport case included in the scope of delivery in order to protect the device from external influences.
- The storage temperature is the same as the range given in the Technical data chapter.
- When storing the device for an extended period of time, remove the battery/batteries.

**Operation**

**Battery change**

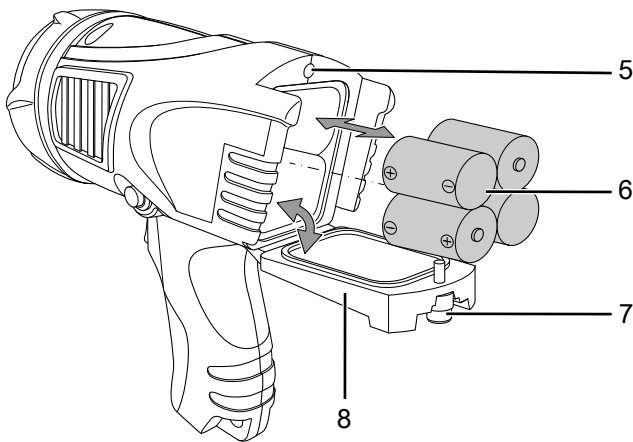
**Note**

Make sure that the surface of the device is dry and the device is switched off.

**Note**

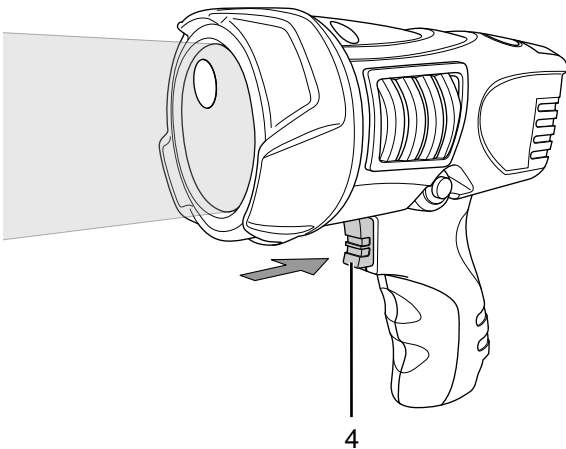
Only use rechargeable batteries, see chapter Technical data. Normal batteries are unsuitable for the device!

1. Remove the knurled screw (7) from the cover of the battery compartment (8).
2. If required, remove the empty batteries.
3. Insert the charged batteries with correct polarity (6).



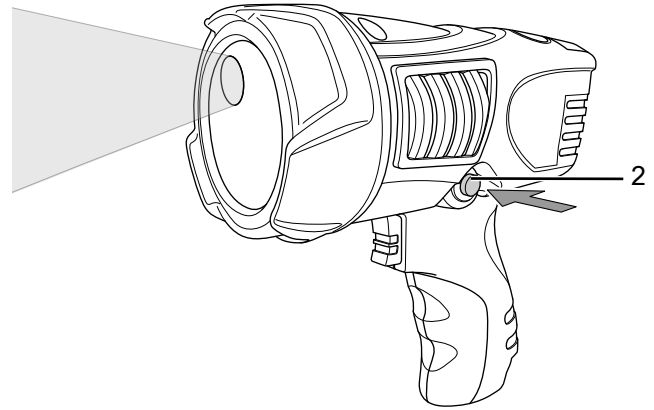
4. Close the cover of the battery compartment (8).
5. Reinsert the knurled screw (7) into the bore hole (5) of the device.

**Switching On/Off**



1. Press the *UV lamp* button (4).  
⇒ The UV lamp is switched on and illuminated for as long as the *UV lamp* button is held.

**Using the torch**



1. Press the *Torch* button (2).  
⇒ The torch is switched on and illuminated for as long as the *Torch* button is held.

**Errors and faults**

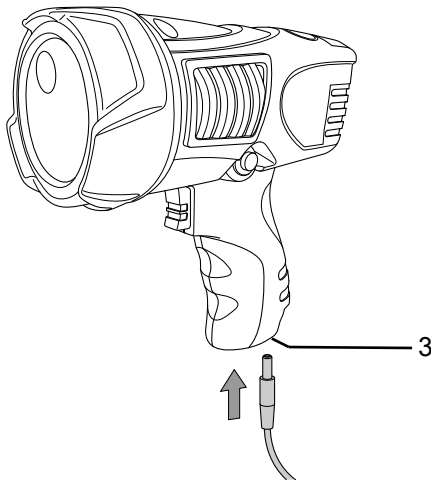
The device has been checked for proper functioning several times during production. If malfunctions occur nonetheless, check the device according to the following list.

Fault	Cause	Remedy
The UV lamp shows signs of weakening.	The batterie charging status is too low.	Charge the batteries
The device can no longer be switched on.	The batteries are empty.	Charge the batteries
The device is connected to the mains but does not function properly.	The device is not intended for mains operation.	Charge the batteries, use the device without charger.

## Maintenance and repair

### Charging the battery

The batteries need to be charged when the performance of the UV lamp or the torch lessens or the device can no longer be switched on.



1. Connect the charger to the mains and the connection (3) within the handle of the device.  
⇒ The batteries are being charged.



#### Info

**The device cannot be operated during charging.**

### Cleaning

Clean the device with a soft, damp and lint-free cloth. Make sure that no moisture enters the housing. Do not use any sprays, solvents, alcohol-based cleaning agents or abrasive cleaners, but only clean water to moisten the cloth.

### Repair

Do not modify the device or install any spare parts. For repairs or device testing, contact the manufacturer.

## Disposal



The icon with the crossed-out waste bin on waste electrical or electronic equipment stipulates that this equipment must not be disposed of with the household waste at the end of its life. You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your municipality or local administration. For further return options provided by us please refer to our website [www.trotec24.com](http://www.trotec24.com).

The separate collection of waste electrical and electronic equipment aims to enable the re-use, recycling and other forms of recovery of waste equipment as well as to prevent negative effects for the environment and human health caused by the disposal of hazardous substances potentially contained in the equipment.



In the European Union, batteries and accumulators must not be treated as domestic waste, but must be disposed of professionally in accordance with Directive 2006/66/EC of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators. Please dispose of batteries and accumulators according to the relevant legal requirements.

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