**HENSEL** PERFORMING LIGHT **VISIT** INDUSTRIAL LIGHT

# Compact flash
# Foris 1000



# User manual

Translation of the original German user manual
Doc. no. 900.0520.00
Version: 1/2020

# Contents

# Information about this manual and about the manufacturer

This manual can assist you with safe use of the "Foris 1000" compact flash. The "Foris 1000" compact flash is called "device" for short in the following text.

## Keeping this manual on hand

This manual is part of the device.
➢ Always keep this manual together with the device.
➢ Provide this manual when selling the device or passing it on in another manner.

## Design features in the text

Various elements of this manual are provided with specific design features. This allows you to easily differentiate between the following elements:

Normal text

➢ Action
• Bullet points
CONTROLS

Cross-references (see page)

ⓘ Tips contain additional information, e.g. special information on the device.

## Design features in the figures

If elements are referred to in a key or in the body text, then they are
provided with a number (1).
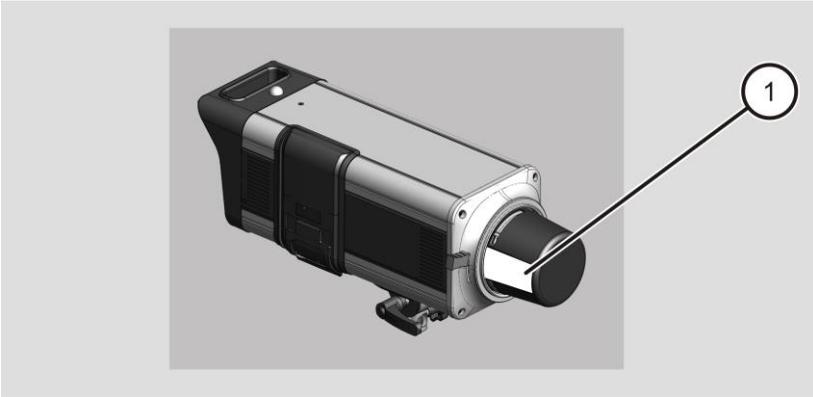


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form, in full or in excerpts.

## Manufacturer's address

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# Safety

The device has been built according to state-of-the-art technology and recognized safety-related regulations. During work with and on the device, however, residual risk remains, which could present a danger to life and limb. For this reason, the following safety information is to be observed and followed.

## Intended use

The device is used for illuminating photographs indoors.

Intended use also includes reading and understanding this manual, as well as observing and following all information in this manual, especially the safety information. In addition, the safety information and all other information in the instructions of the cameras used and of the radio remote trigger are to be observed. Any other use is expressly considered not to be intended use and leads to the voiding of warranty and liability claims.

## Fundamental safety information

### Prevention of serious injuries or death from explosions

The device is not explosion-protected. When the flash tube is triggered, sparks might arise, which could lead to an explosion. Serious injury or death can result.
➢ Do not use the device in explosive atmospheres.

### Prevention of serious injuries or death from electric shock

Improper work on the device can lead to an electric shock.
➢ Only connect the device to a power mains with an intact protective conductor.
➢ Only use plugs with contacts in perfect condition.
➢ Protect the device from moisture.
➢ Never use a wet device.
➢ Do not open the housing.
➢ Where possible, avoid laying the cable on the ground. If laying on the ground cannot be avoided, make sure the cables are not damaged by vehicles or ladders.

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➢ Check the device annually for operating safety (see the maintenance schedule on page 57).
➢ Regularly clean the outside of the device with a dry cloth.
➢ Have damaged cables and the device replaced immediately by the authorized Customer Service only.

**Prevention of serious injuries due to fire**

When the flash tube is triggered, sparks might arise, which could lead to fire. Serious injuries can result.

➢ Do not use the device in the vicinity of flammable materials such as decorative materials, paper, etc.
➢ Do not store flammable materials such as decorative materials, paper, etc. in the vicinity of the device.

**Prevention of serious injuries due to fire or explosion of the rechargeable battery**

If the rechargeable battery is handled incorrectly, it can catch fire or explode.

➢ To charge the rechargeable battery, only use chargers specifically designed for it.
➢ Fully charge the rechargeable battery before commissioning.
➢ Only charge the rechargeable battery in closed rooms and at room temperature.
➢ In case of overheating of the device or charging cable or in case of contact with liquids, immediately stop charging or using the device.
➢ Do not continue charging or using the device until the rechargeable battery has cooled down to the point it is merely warm to the touch.

**Prevention of serious skin and eye injuries**

Triggering a flash in the direct vicinity of the eyes can result in skin and eye injuries.

➢ Observe the required minimum distance for the type of light shaping tool and flash intensity.
➢ Do not look into the light shaping tool in case the flash is triggered accidentally.
➢ In case of skin or eye injuries, consult a doctor immediately.

**Prevention of the risk of burns**

Heat is generated during the operation of the device. This heat can heat up the flash tube, model light, protection glass and light shaping tool, resulting in burns in case of contact with the skin.
➢ Always handle the device with gloves according to EN 407 during operation.
➢ Always let the device cool down for 5 to 10 minutes before mounting or removing components.

**Prevention of ozone formation**

When using the device in enclosed spaces, ozone can form.
➢ To prevent an increased ozone concentration, vent enclosed spaces regularly.

# Prevention of equipment damage and malfunctions

**Prevention of equipment damage due to fogging**

Fogging can occur due to a sudden temperature change, e.g. in a new environment.
➢ Always let the device acclimatize before use in a new environment.

**Prevention of equipment damage due to rain, vapors, frost, heat, humidity and dust**

Rain, vapors, frost, heat, humidity and dust can damage the device.
➢ Protect the device against dripping and spraying water (e.g. rain) or vapors.
➢ Protect the device against frost, heat and high humidity.
➢ Do not place containers of liquids on the device.
➢ Make sure that neither the device nor its components are standing or lying on wet ground.
➢ Do not store the device in locations exposed to heat or moisture.
➢ Cover the device with suitable dust protection when it is not in operation.

**Prevention of equipment damage when using external products**

The use of the device in combination with external products can lead to equipment damage.
➢ Use the device only with accessories and original spare parts recommended by the manufacturer.

**Malfunctions due to electromagnetic radio signals**

The device transmits and receives electromagnetic radiation in a frequency range from 2.3995 to 2.4745 GHz according to IEEE 802.11 n. The maximum transmission power is 100 mW. The power, range and reliability can be impaired by other radio systems or the device can cause interference in other radio systems, such as radio telephones (cell phones, cordless telephones), Wi-Fi routers, radio and TV stations or medical devices.
➢ Before using the device in sensitive environments, such as hospitals, make sure that use is permitted there.

## Design features of warning notices

This user manual contains the following safety information:

| ⚠ DANGER | |
|---|---|
| ⚠ | Notices with the word DANGER warn about a dangerous situation that could lead to death or serious injuries. |

| ⚠ WARNING | |
|---|---|
| ⚠ | Messages with the word WARNING warn about a dangerous situation that could lead to death or serious injuries. |

| ⚠ CAUTION | |
|---|---|
| ⚠ | Notices with the word CAUTION warn about a situation that could lead to light or medium-scale injuries. |

## Design features of equipment or property damage information

| *IMPORTANT!* | |
|---|---|
| | This information warns against a situation that can lead to equipment or property damage. |

## Warning and information sign
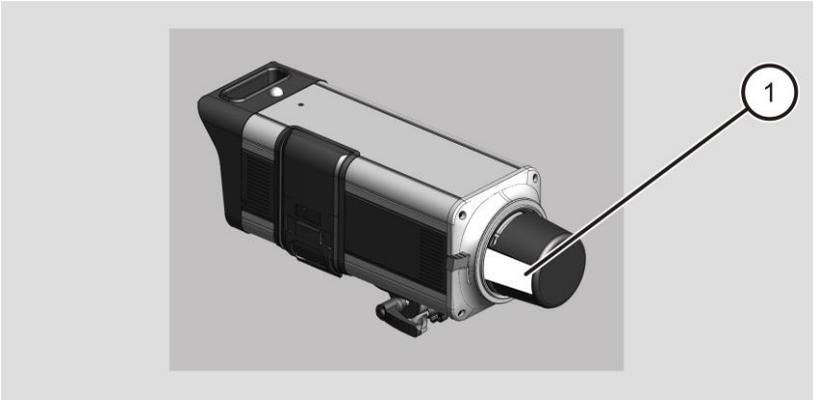


| No. | Explanation |
|-----|-------------|
| 1 | Remove the transport cap before commissioning |

# Description

## Overview of scope of delivery
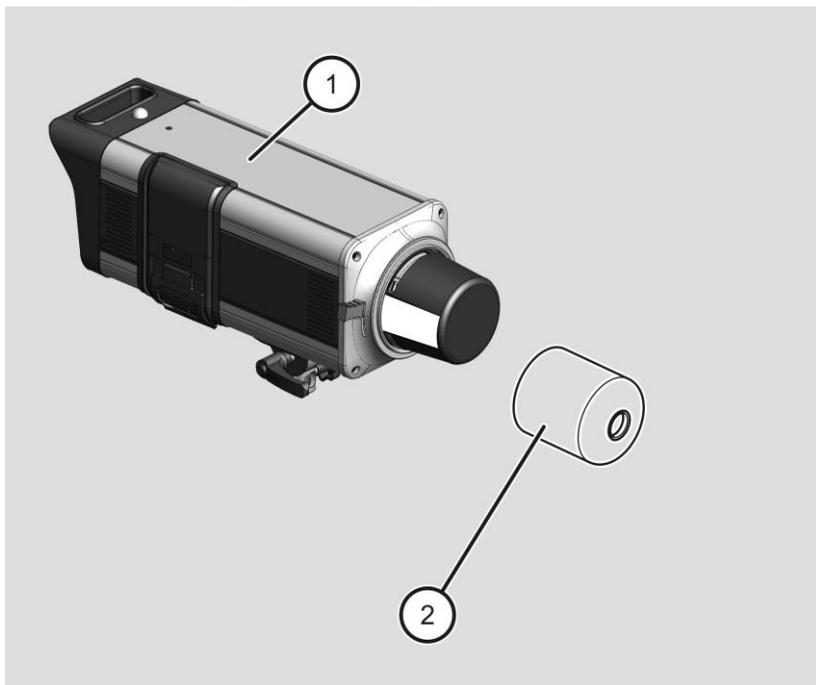


| No. | Designation |
|-----|-------------|
| 1 | Device |
| 2 | Protection glass (packed separately) |
| - | Standard charger (not shown) |

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## Overview of device
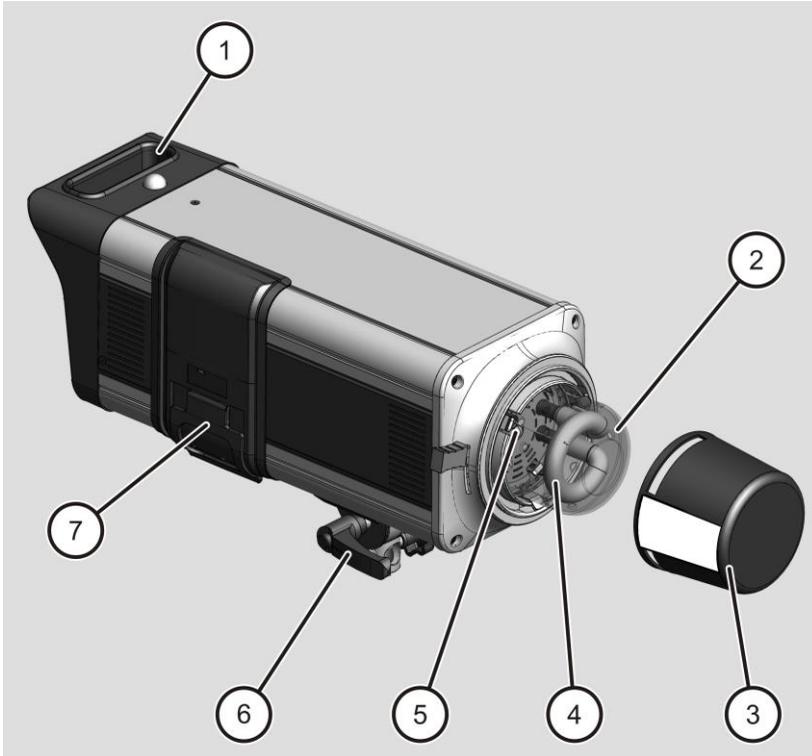


| No. | Designation |
|-----|-------------|
| 1 | Handle |
| 2 | Protection glass |
| 3 | Transport cap |
| 4 | Flash tube |
| 5 | Lock of the holder for the light shaping tool and transport cap |
| 6 | Swivel head |
| 7 | Rechargeable battery compartment |

## Overview of interfaces to other devices
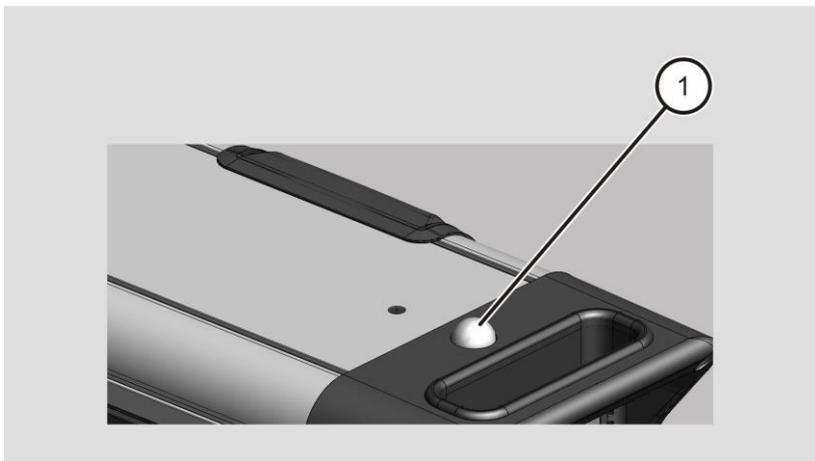


| No. | Designation |
|-----|-------------|
| 1 | Photo cell |
| - | Sync socket (not shown) |
| - | USB port (not shown) |

ⓘ The sync socket and USB port can be found on the bottom of the user panel.

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## Overview of swivel head
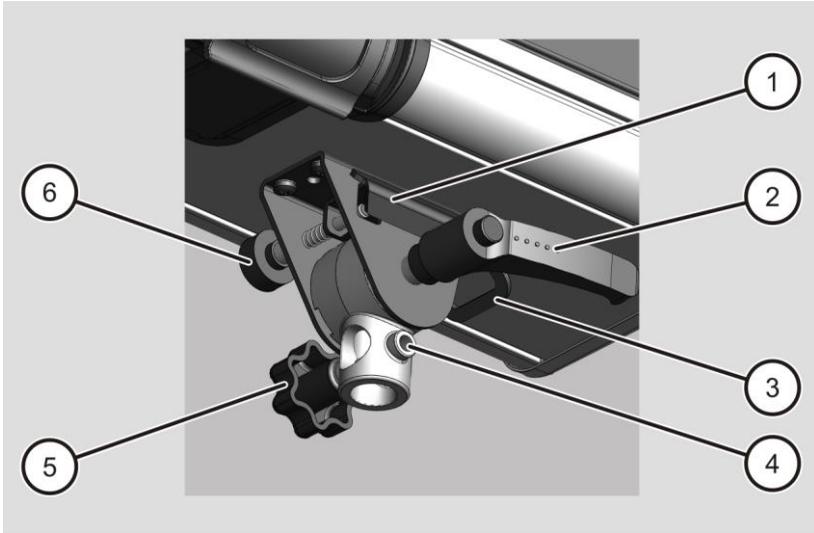


| No. | Designation |
|-----|-------------|
| 1 | Umbrella holder |
| 2 | Locking lever |
| 3 | Hanger clip for safety rope |
| 4 | Thread for locking screw |
| 5 | Knurled screw for stand adapter |
| 6 | Knurled screw for umbrella holder |

## Overview of controls
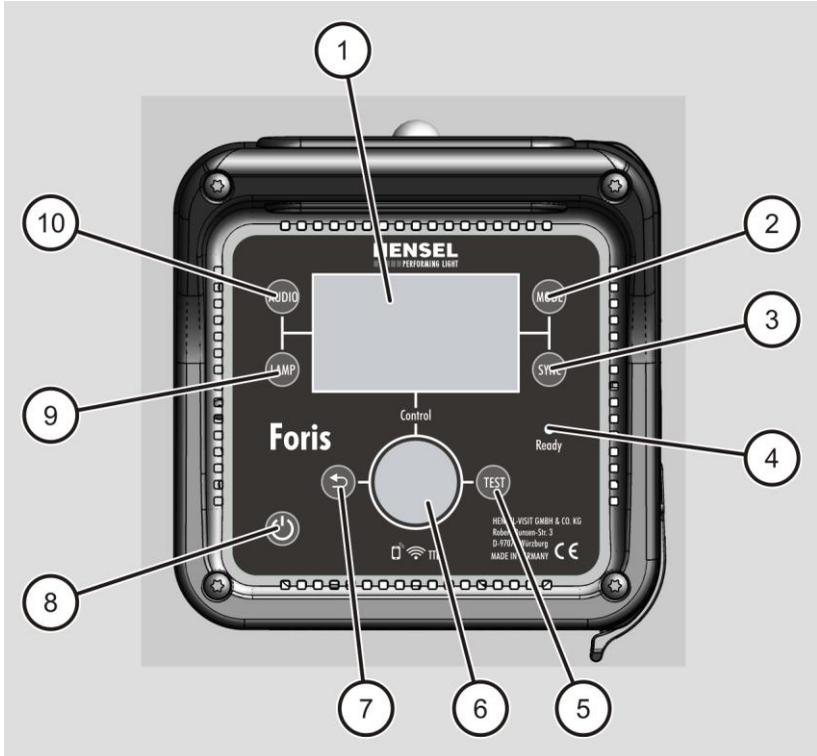


| No. | Designation |
|-----|-------------|
| 1 | Display |
| 2 | MODE button: Select operating modes<br>Open "Mode" submenu |
| 3 | SYNC button: Activate and deactivate photo cell and radio receiver<br>Open "Sync" submenu |
| 4 | Ready: LED, lights up at flash readiness |
| 5 | TEST button: Trigger a flash |
| 6 | Rotary switch for setting the flash energy or for opening the main menu and selecting and setting the parameters in the menus |

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| No. | Designation |
|-----|-------------|
| 7 | Back button: Go back a menu level |
| 8 | Power button |
| 9 | LAMP button: Activate and deactivate the model light in "Full" and "Prop" modes<br>Open "Lamp" submenu |
| 10 | AUDIO button: Signal tone for activation and deactivation of flash readiness<br>Open "Audio" submenu |

## LEDs and controls on rechargeable battery
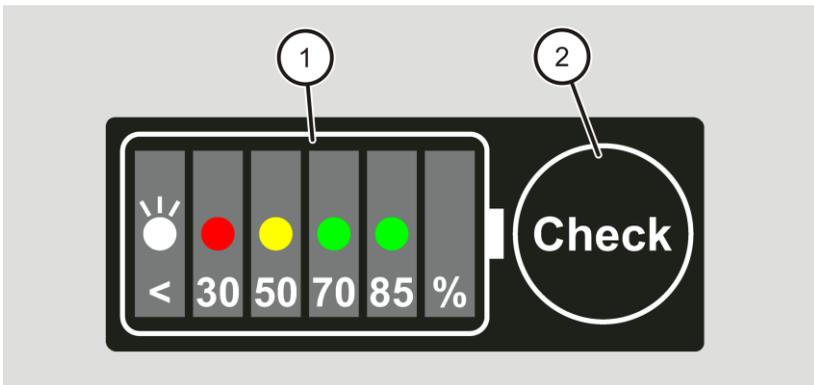


| No. | Designation |
|-----|-------------|
| 1 | Red: Rechargeable battery charged to 30% (low)<br>Yellow: Rechargeable battery charged between 30% and 50% (not complete)<br>Green: Rechargeable battery charged between 70% and 85% (complete) |
| 2 | CHECK button: Display charge level and switch on "Storage" mode |

ⓘ The charging socket is located at the rear of the rechargeable battery.

## Task and function

The device is used for illuminating photographs indoors. It can be used on a stand or pantograph.

The device can be used in the following operating modes:
- STD (Standard)
- FREEZE
- FP (Focal Plane)
- TTL

The "STD" mode has the best ratio between flash duration and color rendering. This mode is recommended for most shooting situations, but especially for color-critical applications in the field of object photography, architectural photography and reproductions. Full energy range, no display of the flash duration.

The FREEZE mode provides shortest flash durations for freezing fast movements. This mode is recommended for dynamic photography in the area of people, fashion and sports photography, but also for capturing, e.g. water splashes in product photography. Full energy range, display of the flash duration.

The FP mode offers the longest flash durations for the use of short exposure times (shorter than the "sync time") with focal plane shutter cameras.

(i) The length of the exposure time also affects the intensity of the flash in this mode. The optional IO TTL transmitter must be switched to HSS and the shortest exposure time that can actually be used must be determined by test shots (deviations from camera to camera). Limited energy range, display of the flash duration.

The FP mode must be used in conjunction with the HSS function. This allows the proportion of continuous light (e.g. daylight) to be reduced in mixed light situations and/or a relatively open f-stop can be used in bright available light.

In TTL mode, the flash is automatically controlled by an IO TTL transmitter (optional) on the camera. This mode is suitable for fast, spontaneous shooting with little time for preparation. The energy adjustment is performed by the camera (full energy range), no display of the flash duration. When the flash is operated manually in TTL mode, it operates as in Freeze mode.

The device has a bright and proportionally adjustable model light. In addition, the device is equipped with "Autored", an automatic model light

reduction. After a preset time of 35 minutes, the brightness is dimmed to half (level 9) in "Full" mode. In "Prop" mode, the brightness is reduced to half when the flash energy is set in a range from 9.1 to 10.

Synchronization with the camera takes place using either a sync cord, the built-in photo cell or the built-in radio receiver. Using the jack plug, the device is connected to the camera through the sync socket. The flash is triggered by the photo cell being struck by a flash emitted from another device. With the optionally available radio remote trigger, the camera and flash can be synchronized via radio triggering.

The device is powered by the rechargeable battery. The rechargeable battery has a "Storage" mode. In this mode, you should remove the rechargeable battery if you are not going to use the device for a long time.

## Type plate

The type plate is attached to the housing. You will find the following information on the type plate:

- Manufacturer name
- Name of the model
- Code number
- CE marking
- Symbol for environmentally sound disposal
- Country of manufacturing

## Technical data

| Device type | Foris 1000 |
|---|---|
| Article number | 8400 |
| Energy (Ws) | 1,000 |
| Guide number[1] | STD mode 90 6/10 |
| Flash durations[2] | 1/10,000–1/1,000 s (t0.5) STD mode<br>1/50,000–1/1,800 s (t0.5) FREEZE mode<br>1/400–1/240 s (t0.5) FP mode<br>1/120 (t0,1) |
| Flash recycling time | STD mode 0.08 s–2.44 s (1.6 s at 500 Ws)<br>FREEZE mode 0.08 s–2.44 s (0.9 s at 500 Ws)<br>FP mode 0.05 s–2.0 s (1.1 s at 500 Ws) |
| Energy range (adjustable in 1/10, 1/2, 1/3 increments) | STD mode 10 f-stops<br>FREEZE mode 10 f-stops<br>FP mode 8 f-stops<br>TTL mode: automatic (max. 7.5 f-stops) |
| Flash energy regulation | 9 f-stop |
| Weight | Approx. 5.6 kg including rechargeable battery |
| Overall dimensions L x W x H in cm | 48 x 14.8 x 14.8 |
| Protection glass | Frosted |
| Flash tube | Plug-in style, Omega |
| Model light | 20 W/40 W (boost mode) LED |
| Model light regulation | On/off, full, proportional, Autored, boost |
| Sync socket/voltage | 3.5 mm jack, mono /5 V DC |
| Radio receiver | Hensel IO |

| Device type | Foris 1000 |
|---|---|
| Charging duration | 3.5 h with standard charger<br>1 h with optional quick charger |
| Connection for light shaping tool | Quickexchange system for EH (10 cm) |
| Additional features | Radio remote control with optional Hensel IO TTL transmitter<br>TTL control and short time synchronization "FP mode" for Canon, Nikon<br>Cameras (with optional Hensel<br>IO TTL transmitter)<br>Flash before "ready", switchable at 80%<br>Prepared for Hensel WiFi Remote<br>Optional power supply in planning |
| Ready signal | Acoustic (volume adjustable)<br>Optical |
| Fan | Built-in |
| Photo cell | Switchable |
| Model light reduction | Autored |
| Internal power drop in case of energy reduction | APD (automatic power drop) |
| Display | Flash energy, channel, Autored, error |
| User interface | Embossed membrane keypad with buttons, fluorescent, Hensel user logic |
| Subject to technical change.<br>The specified data constitutes typical values that can be subject to fluctuations due to the tolerances of the components used. | |

[1] Measured at 100 ASA, exposure time 1/60 s, 100 % flash energy and 12" reflector at a distance of 1 m and 2 m.

[2] The specification of the flash duration refers to the half-life $t_{0.5}$.

| Device type | Rechargeable battery |
|---|---|
| Capacity | 93.6 Wh |
| Nominal rechargeable battery voltage | 36 V |
| L x W x H in mm | 14.0 x 8.7 x 9.0 mm |
| Weight | 738 g |

# Unpacking the device and checking the scope of delivery

➢ Remove the product from the packaging.
➢ Keep the original packaging in case you need to return the product to Customer Service.
➢ Check the scope of delivery for correctness and completeness (see page 13).
➢ Make sure all parts are undamaged.
➢ In case of deviations, contact the manufacturer and/or dealer immediately.

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# Commissioning the device

To commission the device, proceed as follows:
- ➢ Remove the transport cap (see page 27).
- ➢ Position the protection glass in place (see page 29).
- ➢ Mount the light shaping tool (see page 31).
- ➢ Fully charge the rechargeable battery (see page 62).
- ➢ Turn on the device (see page 43).
- ➢ Trigger a test flash (see page 43).
- ➢ Check the function of the model light (see page 49).

# Mounting and removing components of the device

| IMPORTANT! | |
|---|---|
| | The device can be damaged if external products are used.<br>➢ Use only original spare parts and accessories from the manufacturer. |

## Removing and installing the transport cap

| ⚠ WARNING | |
|---|---|
| ⚠ | Heat is generated during the operation of the device, which can lead to a fire if the transport cap is in place.<br>➢ Always remove the transport cap before use. |

To remove the transport cap from the device, proceed as follows:
➢ Hold the transport cap firmly.
➢ Press the lock (1) against the spring force to the limit stop.
➢ Remove the transport cap (3).
➢ Guide the lock (1) into the starting position using the spring force.

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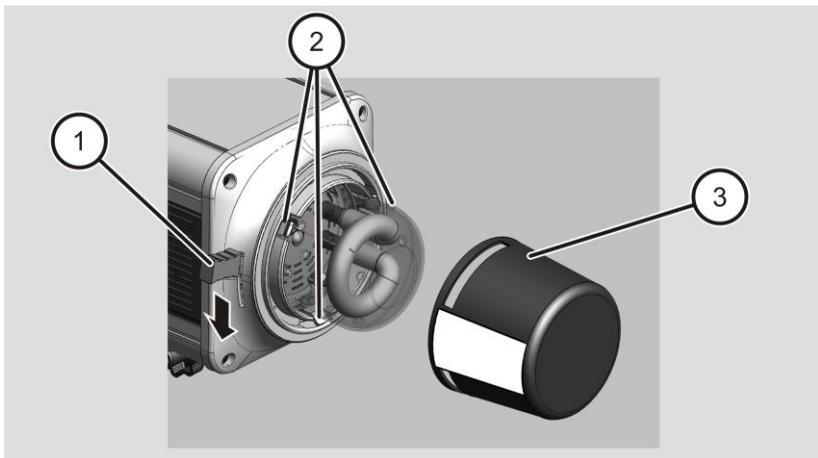
To install the transport cap, proceed as follows:

➢ Press the lock (1) against the spring force to the limit stop.
➢ Place the transport cap (3) on the device in such a manner that the three mounting claws (2) are inside the transport cap (3) and engage in the openings.
➢ Hold the transport cap (3) firmly while guiding the lock (1) into the starting position using the spring force.
➢ Make sure the transport cap (3) is seated correctly.
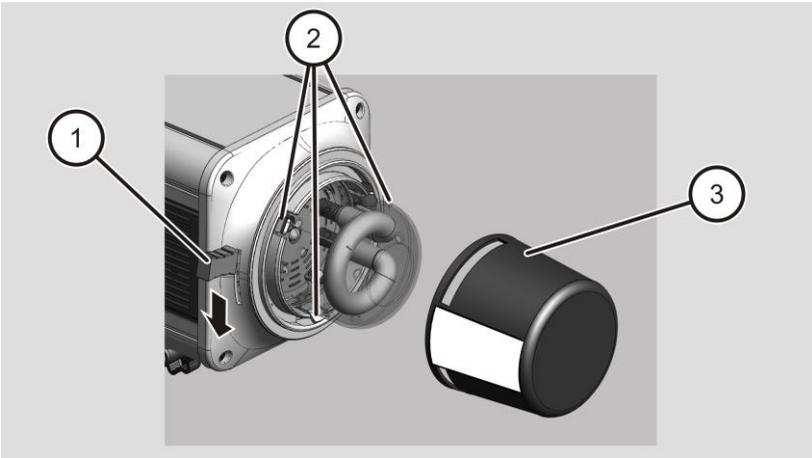
# Installing and removing the protection glass

| ⚠ WARNING | |
|---|---|
| ⚠ | Heat is generated during the operation of the device. Touching the device at the front can lead to severe burns. ➢ Always let the device cool down for 5 to 10 minutes before mounting or removing components. |

To install the protection glass (1), proceed as follows:
➢ Wear gloves according to EN 407.
➢ Tilt the protection glass (1) slightly and insert it into one of the three springs (2).
➢ Insert the protection glass (1) into the second spring (2) using slight pressure.
➢ Press the protection glass (1) into the third spring (2) until it engages securely.

Mounting and removing components of
the device **HENSEL** ■■■■■PERFORMING LIGHT **VISIT** ■■■■■INDUSTRIAL LIGHT
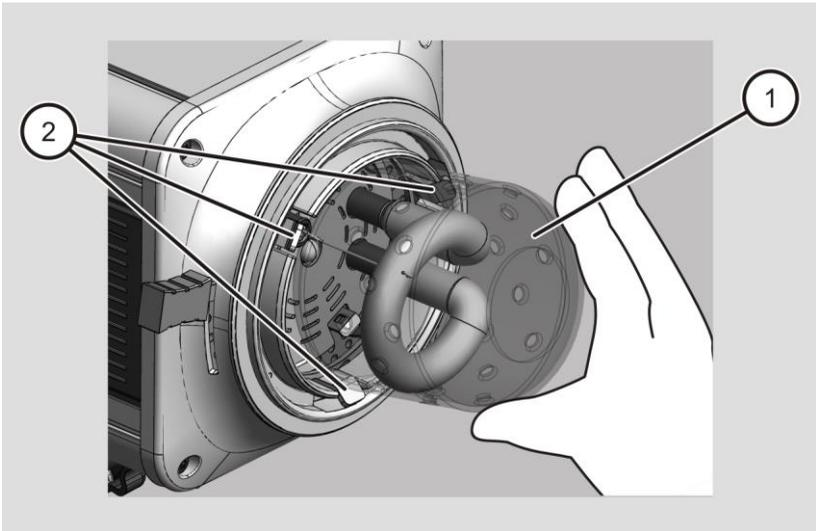
To remove the protection glass (1), proceed as follows:

➢ Tilt the protection glass (1) slightly and so that it disengages from two of the three springs (2) one after the other.
➢ Release the protection glass (1) from the third spring (2) by pulling it slightly and remove it.
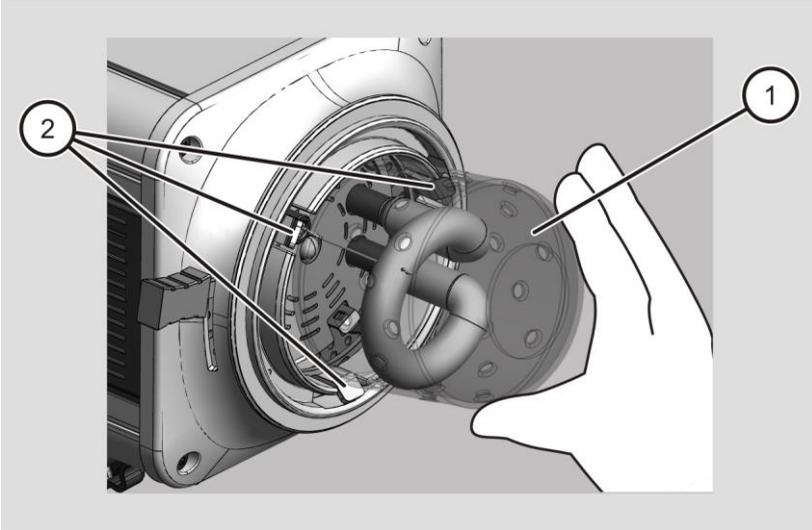
## Mounting the light shaping tool on/removing it from the device

| ⚠ WARNING |
|---|
| ⚠ | Heat is generated during the operation of the device. Touching the device at the front can lead to severe burns. <br><br> ➢ Always let the device cool down for 5 to 10 minutes before mounting or removing components. |

| *IMPORTANT!* |
|---|
| | When mounting or removing the light shaping tool on and from the device, the protection glass can be damaged. <br><br> ➢ Do not touch the protection glass with the light shaping tool. <br> ➢ Make sure the device is held firmly when mounting and removing the light shaping tool. <br> ➢ When mounting the light shaping tool, place it evenly onto the device. <br> ➢ When mounting and removing the light shaping tool, hold it firmly with one hand. |

Mounting and removing components of
the device

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To mount the light shaping tool onto the device, proceed as follows:

➢ Press the lock (1) against the spring force to the limit stop.

➢ Place the light shaping tool (3) on the device in such a manner that the three mounting claws (2) are inside the light shaping tool (3).

➢ Hold the light shaping tool (3) firmly while guiding the lock (1) into the starting position using the spring force.

➢ Make sure the light shaping tool (3) is seated correctly.
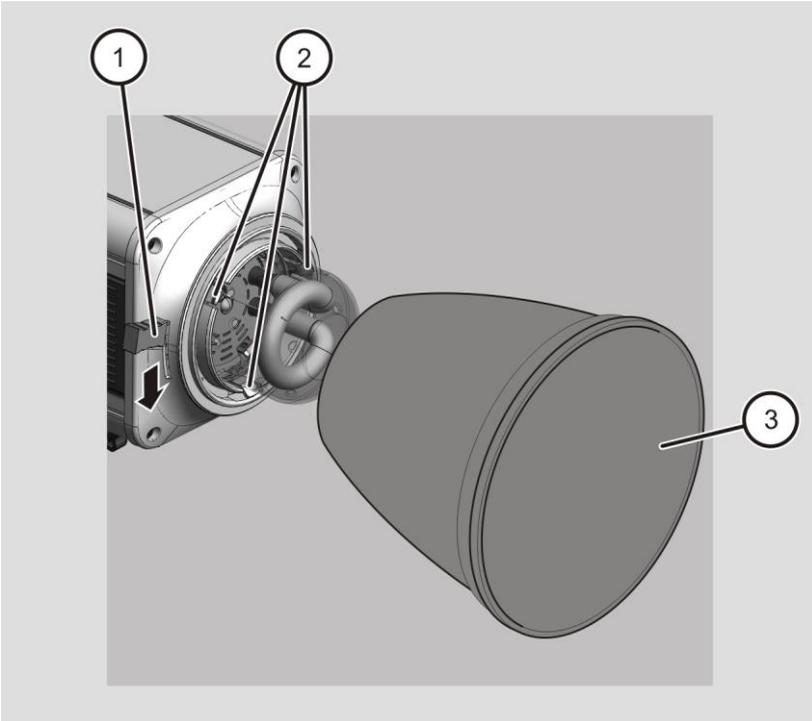
To remove the light shaping tool, proceed as follows:
➢ Hold the light shaping tool (3) firmly in one hand.
➢ With the other hand, press the lock (1) against the spring force to the limit stop.
➢ Remove the light shaping tool (3) from the device and set it aside.
➢ Guide the lock (1) into the starting position again using the spring force.

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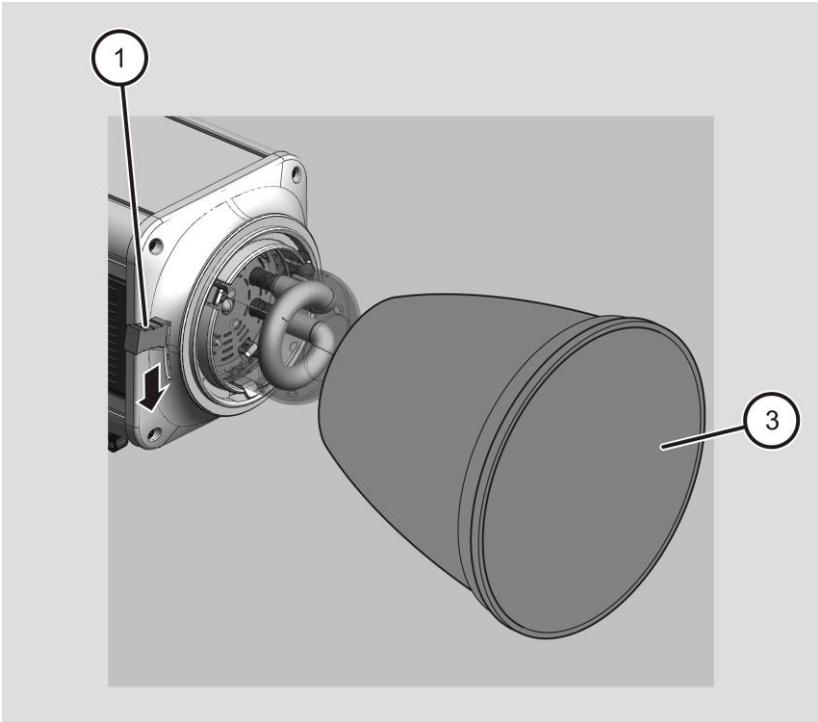
# Mounting the device on/removing it from a stand

To mount the device on a stand, proceed as follows:
- ➢ Loosen the knurled screw (1).
- ➢ Make sure that you do not completely unscrew the knurled screw (1).
- ➢ Place the device on the stand and tighten the knurled screw (1).
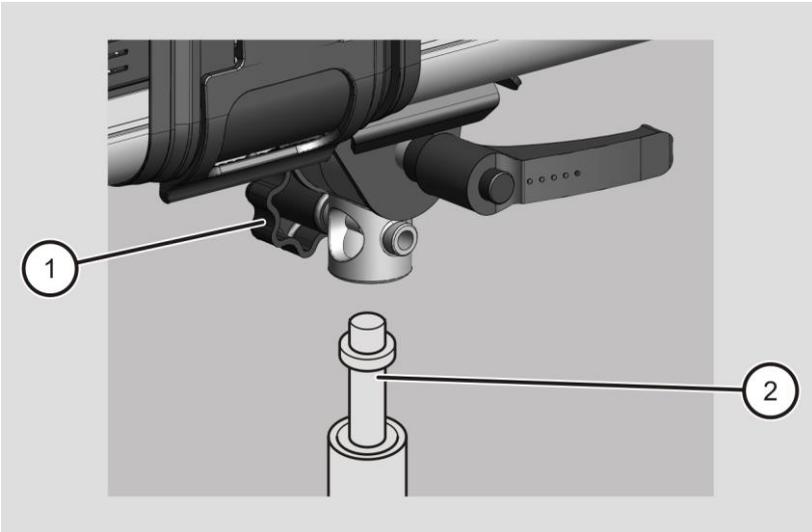
To remove the device from the stand, proceed as follows:
➢ Loosen the knurled screw (1).
➢ Remove the device from the stand (2).

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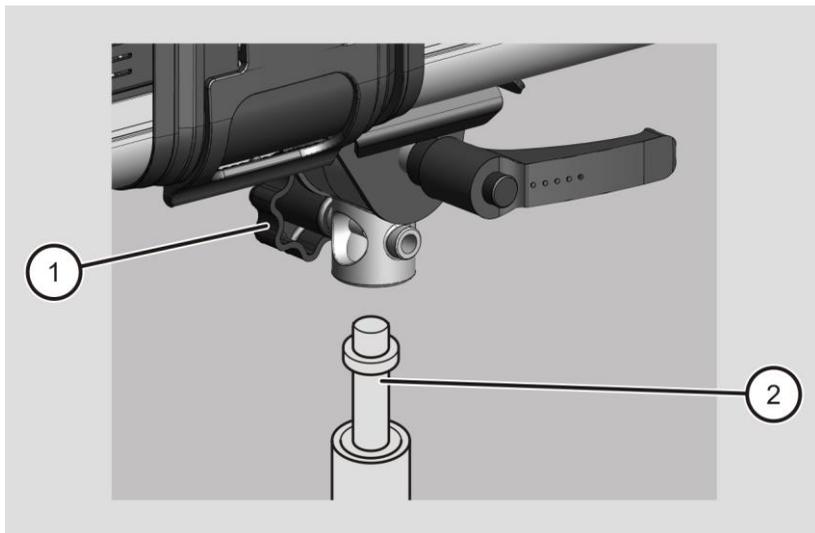
## Rotating and tilting the device

| ⚠ **CAUTION** |
|---|
| ⚠ | Crushing injuries can occur when loosening the locking lever. <br><br> ➢ To prevent twisting and tipping over, hold the device firmly with one hand while loosening the locking lever with the other. |

When mounting the device onto a stand or pantograph, the device can be rotated horizontally by 360° and tilted vertically by approx. 180°.
➢ To rotate the device horizontally, loosen the knurled screw (1).
➢ Rotate the device into the desired position and tighten the knurled screw (1).
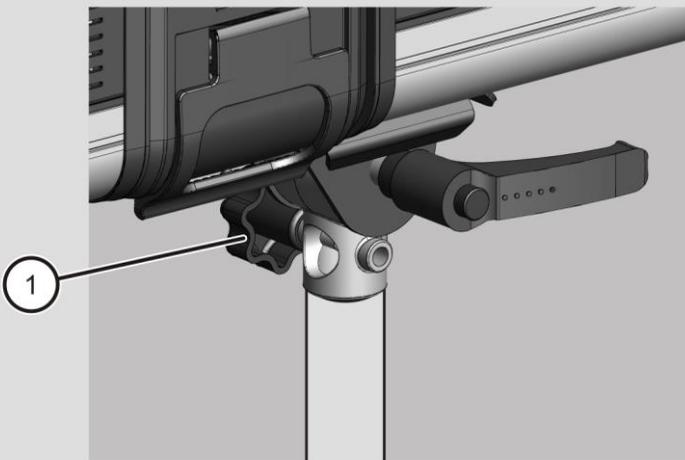
➢ To tilt the device vertically, loosen the locking lever (2).
➢ Pivot the device into the desired position and tighten the locking lever (2).

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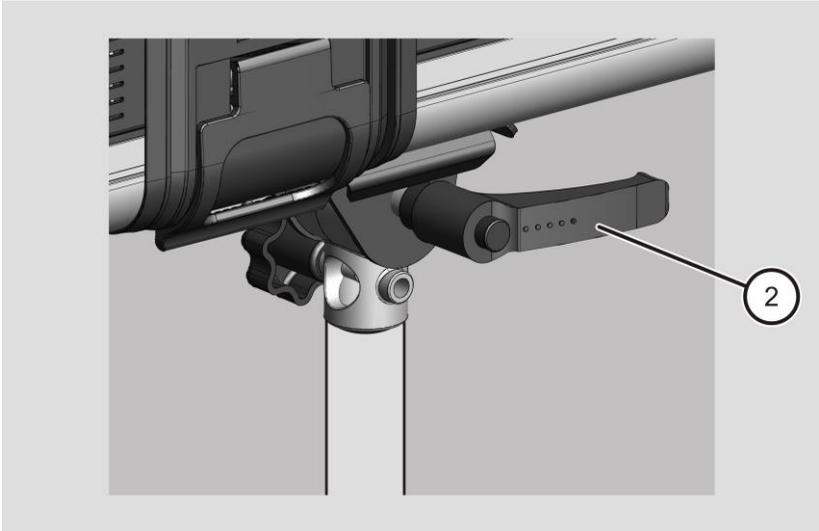
## Mounting the device on/removing it from a pantograph

| ⚠️ **WARNING** | |
|---|---|
| ⚠️ | In the case of a device attached to a pantograph, the anchorage can loosen and the device can fall, leading to injuries. |
| | ➤ Secure the device with an additional locking screw (M6 x 16). |
| | ➤ Secure the device with the safety rope (see "Additional accessories", page 68). |

The device can be mounted on a pantograph, boom or telescopic boom. The mounting of the device on/removal of the device from a stay arm is described below.

To mount the device on a pantograph, proceed as follows:
➤ Loosen the knurled screw (2) without unscrewing it completely.
➤ Guide the device onto the spigot of the pantograph (3).
➤ Screw the locking screw (1) into the opening on the other side of the swivel head and tighten it so that it is hand-tight.
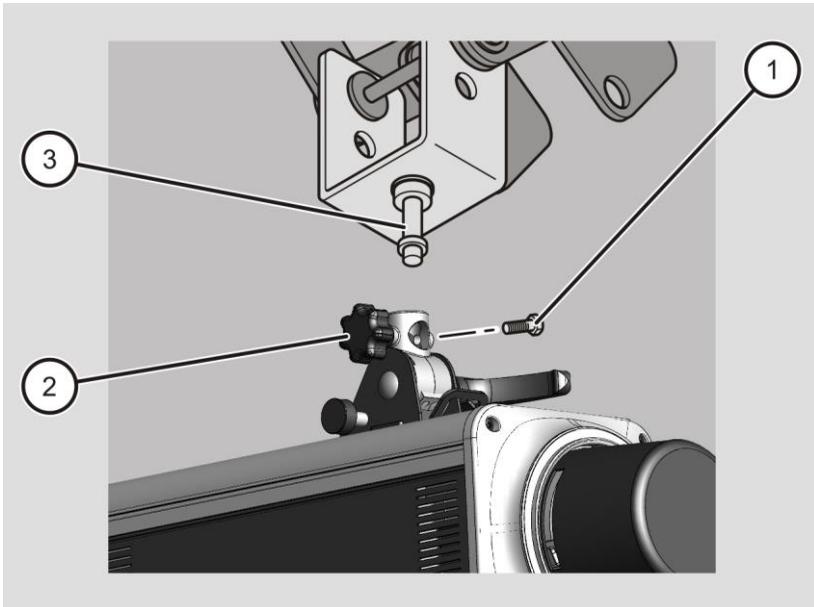
➢ Guide the safety rope (4) through a suitable and stable opening in the stay arm as seen in the following figure.
➢ Open the screw hook (7).
➢ Insert the rope thimble (6) into the screw hook (7).
➢ Insert the screw hook (7) into the hanger clip (5).
➢ Close the screw hook (7) tightly again.
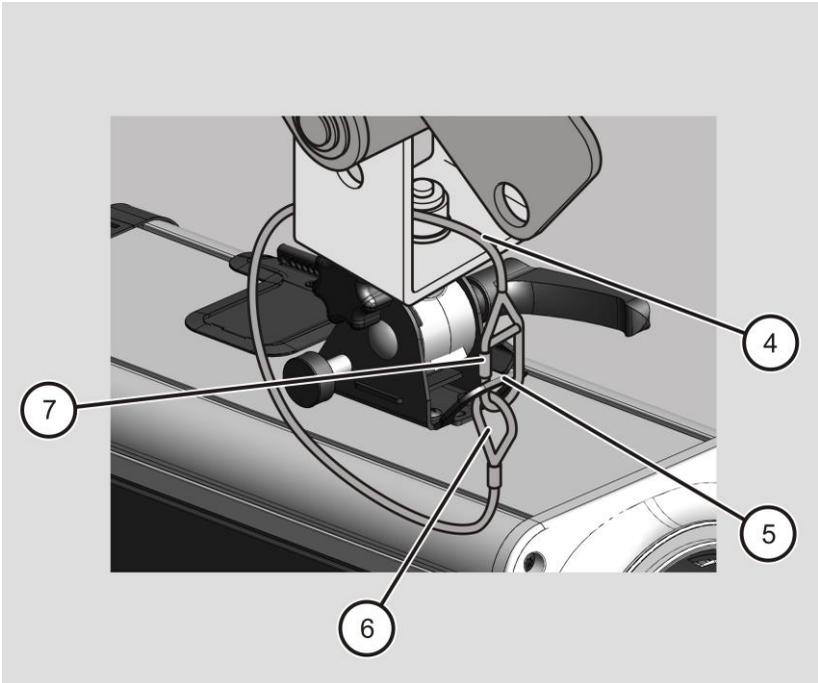


ⓘ When working with a boom or telescopic boom, you can just wrap the safety rope several times around the tube of the boom or telescopic boom and fasten it to the device as described above.

To remove the device, proceed as follows:
➢ Open the screw hook (7).
➢ Remove the screw hook (7) from the hanger clip (5).
➢ Remove the rope thimble (6) from the screw hook (7).
➢ Remove the safety rope (4) from the opening of the stay arm.
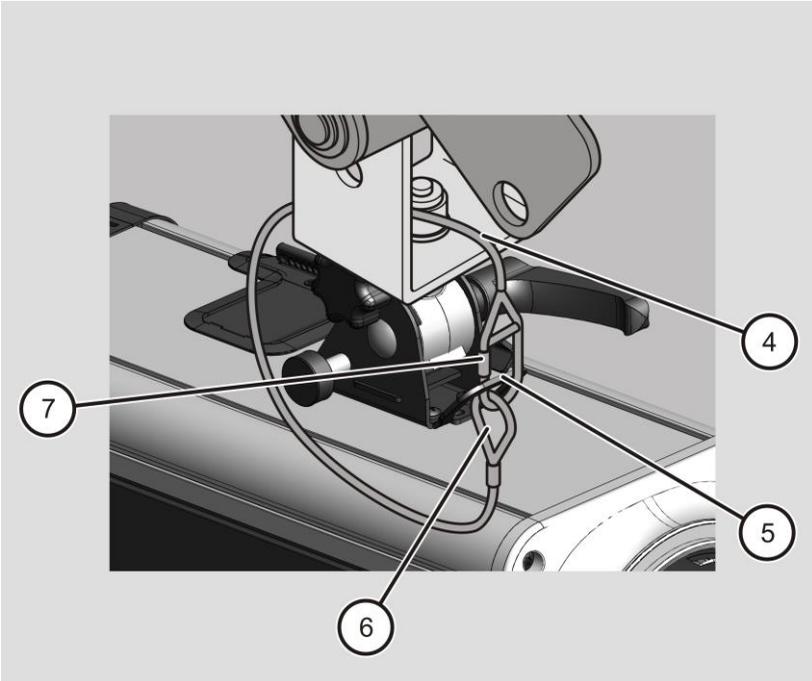
## Mounting the umbrella on/removing it from the device

To mount the umbrella on the device, proceed as follows:

➢ Loosen the knurled screw (2).
➢ Make sure that you do not completely unscrew the knurled screw (2).
➢ Push the umbrella rod (3) into the umbrella holder (1).
➢ Tighten the knurled screw (2).
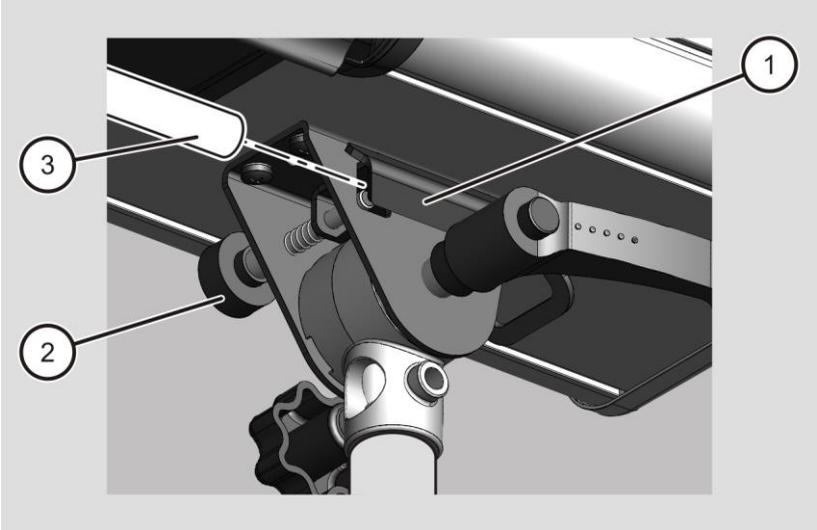
To remove the umbrella, proceed as follows:

➢ Hold the umbrella firmly with one hand.
➢ Loosen the knurled screw (2).
➢ Make sure that you do not completely unscrew the knurled screw (2).
➢ Pull the umbrella out of the umbrella holder (1).
➢ Tighten the knurled screw (2) again.
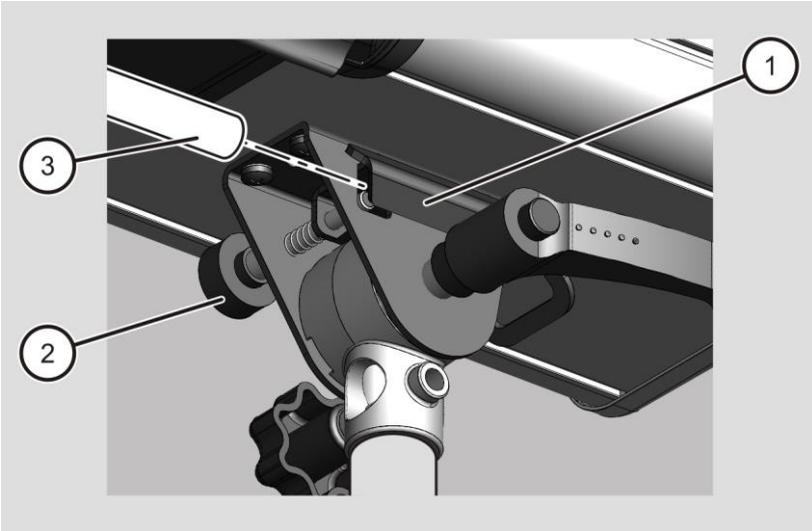
# Operating the device

## Activating and deactivating the device
➢ To turn on the device, press and hold the power button.
➢ To turn off the device, press and hold the power button again.


## Triggering a test flash

To trigger a test flash, proceed as follows:
➢ Make sure the "Ready" LED display lights up green.
➢ Briefly press the TEST button.

The device releases a flash.


## Setting the flash energy

The flash energy can be adjusted with the rotary switch. The setting range depends on the selected operating mode (see page 53). To set the flash energy, proceed as follows:
➢ To increase the flash energy, turn the rotary switch clockwise.
➢ To decrease the flash energy, turn the rotary switch counterclockwise.

When the flash energy is changed, the "Ready" LED display goes out until the selected flash energy is ready.

ⓘ When the flash energy is reduced, the previously accumulated energy is released internally using the integrated APD function.

## Making settings on the device or in the menus

To make settings in the menus, proceed as follows:

➢ Make sure the device is switched on.
➢ Press the rotary switch once and keep it pressed.

The main menu is displayed:

```
┌─────────────────────────────────┐
│            MENUS                 │
├──────────────┬──────────────────┤
│ AUDIO    ◁)) │ MODE         ◓    │
├──────────────┼──────────────────┤
│ LAMP      ☼  │ SYNC        ⚡ᵀ   │
├──────────────┼──────────────────┤
│ COM       📶 │ EXPERT MODE ⚙    │
└──────────────┴──────────────────┘
```

| | |
|---|---|
| "Audio" submenu: | Here you can adjust beep and volume |
| "Lamp" submenu: | Here you can switch the "Full" and "Prop" operating modes, as well as the model light reduction (Autored), on and off |
| "Mode" submenu: | Switch operating modes, set values |
| "Sync" submenu: | Set the channel and group, switch the photo cell on and off |
| "Com" submenu: | Currently not active, not yet implemented |
| "Expert Mode" submenu: | Currently not active, instructions in progress |

Alternatively, you can open the submenus using the buttons on the user panel (AUDIO, LAMP, MODE and SYNC) by pressing and holding them once and making the settings as described below.

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## Activating and deactivating the "Audio" function

With the "Audio" function, flash readiness after charging or after a
reduction of the flash energy is indicated by an acoustic tone. To activate
the "Audio" function, proceed as follows:

➢ Briefly press the AUDIO button.

The signal tone for flash readiness is switched on.

➢ Briefly press the AUDIO button again once.

The signal tone for flash readiness is switched off.

Alternatively, you can switch the "Audio" function on and off in the
"Audio" submenu.

➢ Press the button once and keep it pressed.

The "Audio" submenu is displayed (see page 46).

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## Making settings in the "Audio" submenu

To make settings in the "Audio" submenu, proceed as follows:
➢ Use the rotary switch to highlight the "Audio" menu item in the main menu.
➢ Briefly press the rotary switch once.

The last values set are displayed:

```
              AUDIO
  AUDIO                          ⇐
  SOUND ACTIVATION              ON
  VOLUME                   _ _ ◻◻◻

                 ⇐
```

Sound Activation:                    ON: Signal tone activated
                                     OFF: Signal tone deactivated

Volume:                              Raise or lower the volume

To switch the signal tone on and off, proceed as follows:
➢ Use the rotary switch to select the "Sound Activation" menu item.
➢ Briefly press the rotary switch.
➢ Use the rotary switch to select "ON" or "OFF".
➢ Briefly press the rotary switch.
The corresponding value is saved.

To set the volume, proceed as follows:
➢ Use the rotary switch to select the "Volume" menu item.
➢ Briefly press the rotary switch.
➢ To increase the volume, turn the rotary switch clockwise.
➢ To decrease the volume, turn the rotary switch counterclockwise.
➢ Briefly press the rotary switch once.
The corresponding value is saved.

➢ To exit the "Audio" submenu, press the Back button twice.

# Activating and deactivating the model light

**"Full" mode**

To activate the model light in "Full" mode, proceed as follows:
➢ Briefly press the LAMP button.

The display shows "Full". The model light lights up with maximum brightness, irrespective of the set flash energy.

To deactivate the model light in "Full" mode, proceed as follows:
➢ Press the LAMP button again twice.

**"Prop" mode**

To activate the model light in "Prop" mode, proceed as follows:
➢ Press the LAMP button twice.

The display shows "PROP". The brightness of the model light is proportional to the set flash energy.

To deactivate the model light in "Prop" mode, proceed as follows:
➢ Briefly press the LAMP button.

Alternatively, you can switch the model light on and off in the "Mode" submenu.
➢ Press the LAMP button once and keep it pressed.

The "Lamp" submenu is displayed (see page 48).

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## Making settings in the "Lamp" submenu

To make settings in the "Lamp" submenu, proceed as follows:
➢ Use the rotary switch to highlight the "Lamp" menu item in the main menu.
➢ Briefly press the rotary switch once.

The "Lamp" submenu is displayed with the last set values:

```
          LAMP
  LAMP                 ⟵⇒
  MODE               FULL
  AUTORED LIGHT        ON
  AUTORED TIME MIN     60
  AUTORED POWER       50%

             ⟵⇒
```
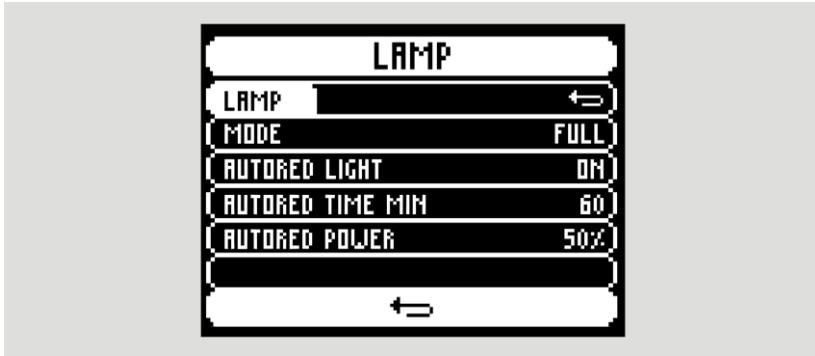
| | |
|---|---|
| Mode: | Activate the model light in "Full" or "Prop" mode |
| Autored Light: | Activate and deactivate automatic model light reduction (Autored) |
| Autored Time Min: | Set time |
| Autored Power: | Set the type of reduction |

To adjust the model light in "Full" or "Prop" mode, proceed as follows:
➢ Use the rotary switch to highlight the "Mode" menu item.
➢ Briefly press the rotary switch once.
➢ Use the rotary switch to select "Full", "Prop" or "OFF".
➢ Briefly press the rotary switch again.

The corresponding value is saved.

To activate or deactivate the automatic model light reduction (Autored), proceed as follows:
➢ Use the rotary switch to highlight the "Autored Light" menu item.
➢ Briefly press the rotary switch once.

➢ Use the rotary switch to select "ON" or "OFF".
➢ Briefly press the rotary switch once.

The corresponding value is saved.

To activate the time for the model light reduction (Autored), proceed as follows:
➢ Use the rotary switch to highlight the "Autored Time Min" menu item.
➢ Briefly press the rotary switch once.
➢ In two-minute increments, set the time up to a maximum of 60 minutes using the rotary switch.
➢ Briefly press the rotary switch once.

The desired value is saved.

To activate type of the model light reduction (Autored), proceed as follows:
➢ Use the rotary switch to highlight the "Autored Power" menu item.
➢ Briefly press the rotary switch once.
➢ Select 50% or "OFF" using the rotary switch.
➢ Briefly press the rotary switch once.

The desired value is saved.

## Checking the function of the model lamp

When the model light is on, the display shows "High" or "Prop". If this is not the case, proceed as follows:
➢ Press the LAMP button.

The display shows "High" and the model light lights up.

➢ If the model light does not light up, contact Customer Service (see page 71).

## Activating and deactivating the LED model light (Lamp Boost)

To activate the "Lamp Boost" LED model light, proceed as follows:
➢ Briefly press the rotary switch once.

The model light is switched to double energy for 30 seconds.

To deactivate the "Lamp Boost" LED model light, proceed as follows:
➢ Briefly press the rotary switch once again.

The "Lamp Boost" LED model light is deactivated.

## Synchronizing the device with the camera

The device and the camera are synchronized using the following components:
• Sync cord
• Built-in photo cell
• Built-in radio receiver

### Synchronizing the device using the cable

To connect the device to the camera, proceed as follows:
➢ Insert the jack plug of the sync cord into the sync socket of the device.
➢ Connect the other end of the sync cord to the camera. Observe the user manual of the camera.

### Activating and deactivating the photo cell

ⓘ The flash is triggered through the photo cell by the striking of a flash emitted by another device. The photo cell functions as a pulse photo cell. It works only if the light output of the emitted flash is stronger than the available light. For this reason, you must ensure that excessively strong extraneous light does not affect the photo cell. In such cases, the flash must be triggered either using the sync cord or the radio remote trigger.

To activate and deactivate the photo cell, proceed as follows:
➢ Briefly press the SYNC button.

The photo cell is activated.

➢ Press the SYNC button again three times.

The photo cell is deactivated.

Alternatively, you can switch the photo cell on and off in the "Sync" submenu.
➢ Press the SYNC button once and keep it pressed.

The "Sync" submenu is displayed (see page 52).

**Activating and deactivating the radio receiver**

The device has a built-in "Hensel IO" radio receiver. With the optionally available radio remote trigger, the camera and flash can be synchronized via radio signal. To activate and deactivate the radio receiver, proceed as follows:

➢ Briefly press the SYNC button twice.

The radio receiver is activated.

➢ Briefly press the SYNC button twice.

The radio receiver is deactivated.

Alternatively, you can switch the radio receiver on and off in the "Sync" submenu.
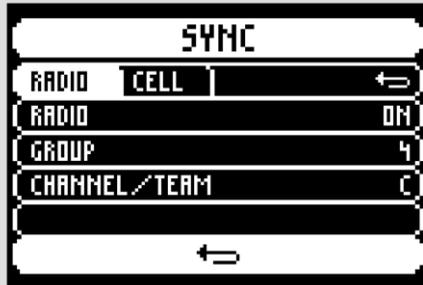➢ Press the SYNC button once and keep it pressed.

The "Sync" submenu is displayed (see page 52).

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## Making settings in the "Sync" submenu

To make settings in the "Sync" submenu, proceed as follows:
➢ Use the rotary switch to highlight the "Sync" menu item in the main menu.
➢ Briefly press the rotary switch once.

The last values set are displayed:

```
              SYNC
   RADIO  [ CELL ]              ⇐
   RADIO                        ON
   GROUP                        4
   CHANNEL/TEAM                 C

                ⇐
```

Radio:                          Activate and deactivate the radio receiver

Group:                          Set the group

Channel/Team:                   Set the channel

To activate and deactivate the radio receiver, proceed as follows:
➢ Use the rotary switch to highlight the "Radio" menu item.
➢ Briefly press the rotary switch once.
➢ Use the rotary switch to select "ON" or "OFF".
➢ Briefly press the rotary switch once.

The desired value is saved.


To set the group, proceed as follows:
➢ Use the rotary switch to highlight the "Group" menu item.
➢ Briefly press the rotary switch once.
➢ Use the rotary switch to select a value from 1 to 8.
➢ Briefly press the rotary switch once.

The desired value is saved.

➢ Proceed in the same way when setting the channel.
➢ Observe and follow the instructions of the radio remote trigger.
➢ To exit the "Sync" submenu, press the Back button.


## Selecting operating modes

To select the operating modes, proceed as follows:
➢ Briefly press the MODE button.

The FREEZE mode is activated.

➢ Press the MODE button twice.

The FP mode is activated.

➢ Press the MODE button three times.

The TTL mode is activated.

➢ Press the MODE button four times.

The STD mode is activated.


Alternatively, you can select the operating modes in the "Mode" submenu.
➢ Press the MODE button once and keep it pressed.

The "Mode" submenu is displayed (see page 54).

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## Making settings in the "Mode" submenu

To make settings in the "Mode" submenu, proceed as follows:
- ➢ Use the rotary switch to highlight the "Mode" menu item in the main menu
- ➢ Briefly press the rotary switch once.

The last values set are displayed:



| Mode: | Set STD, FREEZE, FP or TTL mode |
| --- | --- |
| Sequence: | Set the number of flashes for the flash sequence |
| Sync Delay ON/OFF: | Activate and deactivate the sync delay |
| Sync Delay: | Set the sync delay |

ⓘ The sync delay can only be set in "Expert" mode. For more information, see the separate instructions.

To change the values, proceed as follows:
- ➢ Use the rotary switch to highlight the "Mode" menu item.
- ➢ Briefly press the rotary switch.
- ➢ Use the rotary switch to select "STD", "FREEZE", "FP" or "TTL" mode.
- ➢ Briefly press the rotary switch.

The corresponding value is saved.

- ➢ To exit the "Mode" submenu, press the Back button.

# Error messages

| Problem | Possible causes | Remedy |
|---------|----------------|--------|
| Hot temperature error – the model light turns off, the fan runs at maximum speed and the device does not release a flash.<br><br>**HOT** | High ambient temperature at full model light, unsuitable light shaping tools, covered ventilation slots or defective fan. | ➢ Keep the device switched on so that the fan can cool down the device.<br>➢ Make sure the ventilation slots are not covered.<br>➢ Make sure the fan is not defective. |
| **ERROR** | Defect<br>Flash board, capacitor, LED, etc. | ➢ Deactivate the device immediately.<br>➢ Send the device to Customer Service with a description of the fault. |

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# Transporting and storing the device

To transport and store the device, proceed as follows:
- ➢ Remove the light shaping tool (see page 31).
- ➢ Position the transport cap in place (see page 27).
- ➢ Remove the rechargeable battery from the device (see page 62).
- ➢ Charge the rechargeable battery, if necessary (see page 62).
- ➢ Put the rechargeable battery in "Storage" mode (see page 63).
- ➢ Do not store the device in locations exposed to heat, moisture, frost or cold.
- ➢ Cover the device.

# Servicing the device

## Caring for and cleaning the device

| ⚠ WARNING | |
|---|---|
| ⚠ | Heat is generated during the operation of the device. Touching the device at the front can lead to severe burns. <br> ➢ Let the device cool down for 5 to 15 minutes before cleaning. |

To guarantee electrical safety, the device must be cleaned regularly. To clean it, proceed as follows.

➢ Regularly clean the outside of the device with a dry cloth.

**Regular inspection**

National safety regulations – e.g. the Industrial Safety Act (BetrSichV) and DGUV Regulation 3 (formerly BGV A3) in Germany – demand the inspection and maintenance of electrical systems and equipment at regular intervals. The operating safety of devices and accessories must be checked regularly. An annual inspection of the devices should be carried out for the safety of the users and to retain the value of the system.

The regulations specified above (BetrSichV and DGUV Regulation 3 (formerly BGV A3)) apply to Germany; please observe the corresponding local regulations in your country.

**Maintenance schedule**

➢ Regularly clean the device as described in the "Caring for and cleaning the device" section above.

➢ Grease the thread of the knurled screw for the stand adapter every 1-2 years.

| Maintenance | Time period |
|---|---|
| Check the operating safety of the device | Every 12 months |
| Check the operating safety of accessories | Every 12 months |

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## Replacing a defective protection glass

| ⚠ WARNING |
|---|
| ⚠ Heat is generated during the operation of the device. Touching the device at the front can lead to severe burns. <br> ➢ Always let the device cool down for 5 to 10 minutes before mounting or removing components. |

To replace the protection glass, proceed as follows:
➢ Switch off the device.
➢ Remove the light shaping tool (see page 31).
➢ Remove the defective protection glass (see page 29).
➢ Mount the new protection glass (see page 29).
➢ Mount the light shaping tool (see page 31).
➢ Switch on the device.

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Servicing the device

# Replacing a defective flash tube

| ⚠ **DANGER** | |
|---|---|
| ⚠ | In the case of a defective flash tube, the electrodes are exposed. Touching the flash tube may result in an electric shock. |
| | ➢ Switch off the device. |
| | ➢ Disconnect the device from the power supply or remove the rechargeable battery. |
| | ➢ Before touching the defective flash tube, wait for 15 minutes to allow the capacitor voltage in the device to drop. |
| | ➢ If the flash tube is broken, do not touch the electrodes under any circumstance. Always use pliers with protective insulation to remove the flash tube. |

To replace the flash tube, proceed as follows:
➢ Switch off the device at the main switch.
➢ Wait for 15 minutes.
➢ Remove the light shaping tool (see page 31).
➢ Remove the protection glass (see page 29).
➢ Unwind the trigger wire (2) from the connection pin (1).

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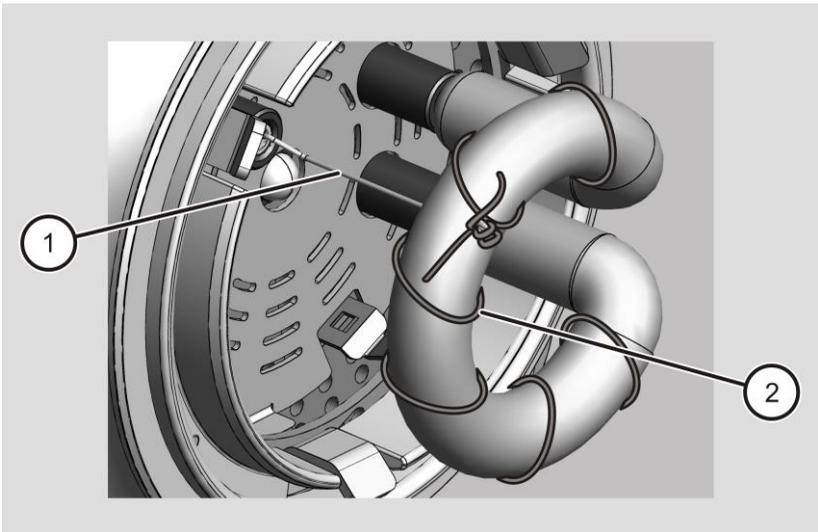
➢ Pull out the flash tube (3).
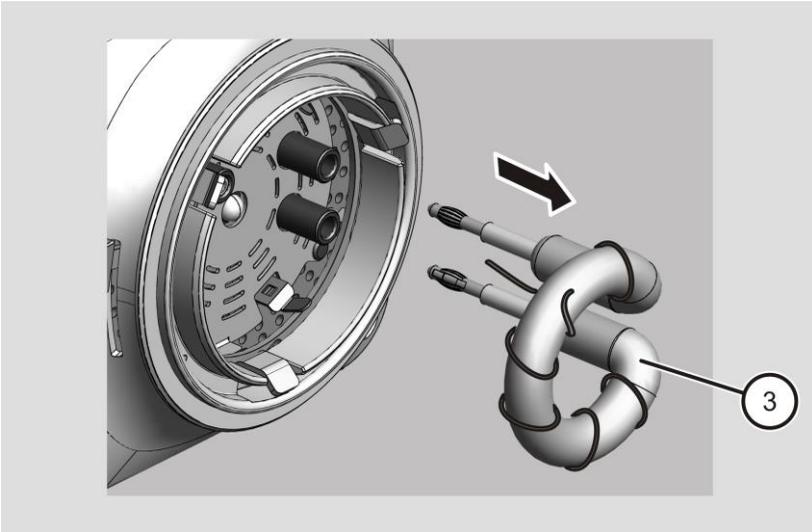


➢ If necessary, remove all glass fragments of the flash tube.
➢ Remove the new flash tube from the packaging.
➢ Make sure the glass body of the new flash tube is not defective.
➢ Place the flash tube on the base and carefully push the flash tube into the device up to the limit stop.
➢ Pull out the flash tube by approx. 0.5 mm again so that the glass body can expand when heating up.
➢ Wrap the trigger wire (2) around the connection pin (1) on the device and bend it towards the glass body of the flash tube.
➢ If the remaining trigger wire (2) is too long, shorten it with pliers.
➢ Make sure the trigger wire (2) is correctly wrapped around the connection pin (1).
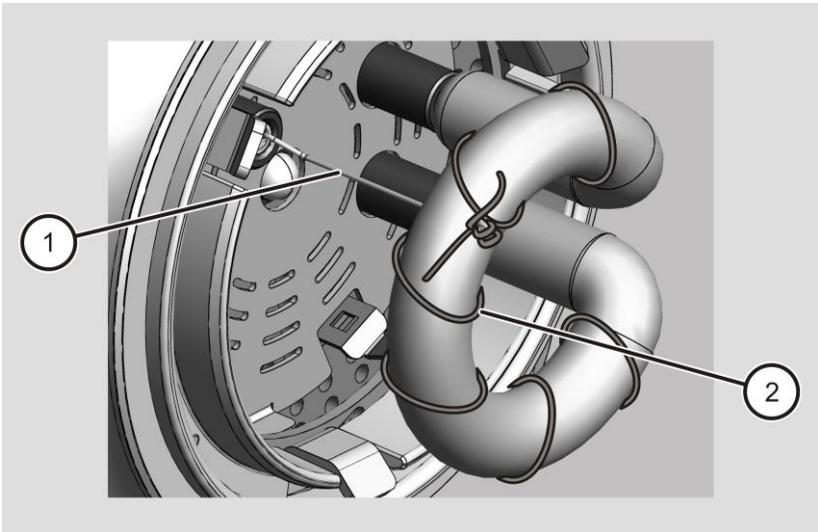
ℹ️ If the trigger wire is too loosely wrapped around the connection pin or not at all, the flash function may fail. If the trigger wire is not bent towards the glass body of the flash tube, the trigger voltage flows off through the protective conductor of the device and the device does not release a flash.

➢ Mount the protection glass (see page 29).
➢ Mount the light shaping tool (see page 31).
➢ Switch on the device.

# Charging the rechargeable battery

Depending on the operating conditions and the flash energy setting, the rechargeable battery has an approximate capacity of:

- 300 flashes at 1000 Ws
- 600 flashes at 500 Ws
- 1200 flashes at 250 Ws, etc.

To charge the rechargeable battery, proceed as follows:

➤ Switch off the device.
➤ Pull up the lock (1) on the battery compartment and remove the rechargeable battery from the device.
➤ Place the rechargeable battery on a dry, clean surface.

The charging socket is located at the rear of the rechargeable battery.

➤ Connect the rechargeable battery to the provided charger or to the quick charger (available as an option). Please observe the operating instructions of the respective charger.
➤ Connect the charger to the power supply.
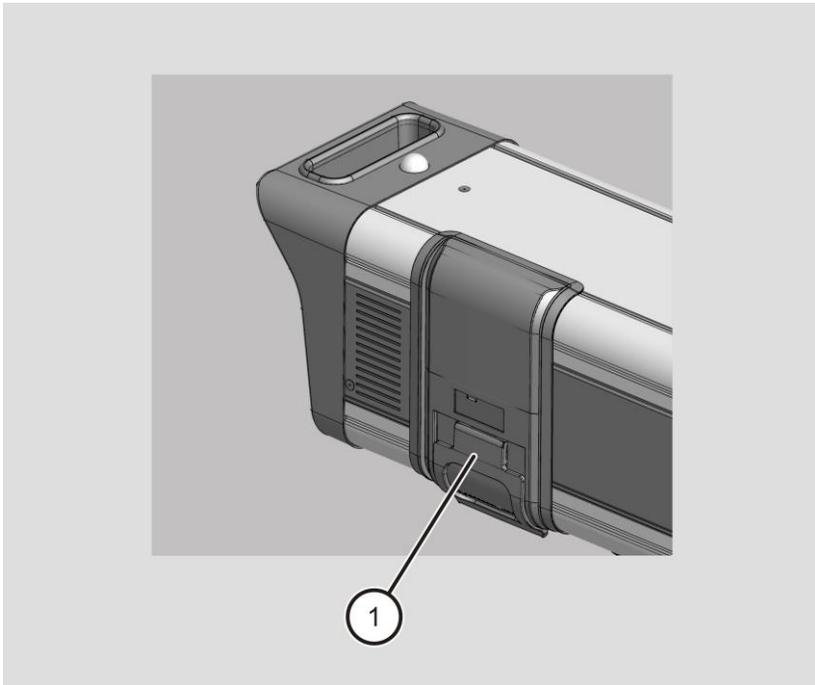
If you use the charger included in the scope of delivery, the charging time is 3.5 hours.

If you use the optional quick charger, the charging time is 1 hour.

After charging, proceed as follows:
➢ Pull up the lock on the rechargeable battery and insert the rechargeable battery into the battery compartment again.
➢ Release the lock so that the rechargeable battery can engage.

## Putting the rechargeable battery in "Storage" mode

If you do not use the rechargeable battery for an extended period of time (e.g., weeks or months), you should put it in "Storage" mode. In the process, proceed as follows:
➢ Make sure the rechargeable battery is charged between 30% and 50%.
➢ If the rechargeable battery is charged to less than 30%, charge it first.
➢ Briefly press the CHECK button on the charged rechargeable battery once.

The battery capacity is displayed.

➢ Press the CHECK button twice in quick succession within one second.

The red and green LEDs flash. The rechargeable battery switches to "Storage" mode.

ⓘ If you insert the rechargeable battery into the battery compartment again and switch on the device, it will function normally again without any restrictions.

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# Performing firmware updates

The firmware version of the device can be updated over the USB port.
➢ For more information, contact Customer Service.

# Disposing of the device and packaging

## In Germany
➢ Dispose of the packaging of the device, separated according to material. Use local options for collecting paper, cardboard and lightweight packaging.
➢ Dispose of the device and accessories separately from domestic waste. Information regarding collection points that accept old devices free of charge can be obtained from your municipal authority.

## Outside of Germany
➢ Dispose of the device and packaging according to the regulations at the place of use.

# Documents

## EU Declaration of Conformity

Hensel-Visit GmbH & Co. KG hereby declares that device type "Foris 1000" corresponds with Directive 2014/53/EU. The complete text of the EU Declaration of Conformity is available under the following URL https://support.hensel.eu/index.php/eu-konformitaetserklaerungen.

## UN certificate for the rechargeable battery

The UN certificate for the harmlessness of the battery during transport is available at the following Internet address in the category "Harmlessness Certificates":
https://hensel.eu/downloads

➢ Before flights, check with the airline to see whether lithium-ion batteries are allowed on board.

# Accessories

## Rechargeable battery

| Designation | Article number |
|---|---|
| Rechargeable battery for Foris 1000 | 8900 |

## Protection glass

| Designation | Article number |
|---|---|
| Transparent, uncoated, frosted | 9454659 |

## Flash tubes

| Designation | Article number |
|---|---|
| Plug-in style, single coating | 99150052 |

## Radio remote trigger

| Designation | Article number |
|---|---|
| IO TTL transmitter for Canon cameras | 84540950 |
| IO TTL transmitter for Nikon cameras | 84540951 |

## Light shaping tools

Light shaping tools and softboxes with EH connection diameter (10 cm) for the "Foris 1000" device.

## Charger

| Designation | Article number |
|---|---|
| Quick charger (optional) | 1696 |

## Additional accessories

| Designation | Article number |
|---|---|
| Safety rope | 7690 |

Information on additional accessories can be found on our website.

# Warranty provisions

## In Germany

The warranty provisions can be found in our general terms and conditions for business on our website: www.hensel.de

## Outside of Germany

The warranty provisions of the dealer from which you have purchased the device apply.

# Limitation of liability

We are not liable for equipment or property damage, or personal injury arising from improper use of the device that is inconsistent with the information provided in the user manual. We are also not liable for consequential damages (such as production or income losses, etc.) that may be caused by a defect in or malfunction of our device.

# Returning a product to Customer Service

As soon as you discover damage to the device, proceed as follows:

➢ Send the device in its original packaging with a precise description of the defect to the following address for repair:

HENSEL-VISIT GmbH & Co. KG
Customer Service Department
Robert-Bunsen-Str. 3
D-97076 Würzburg, Germany

Phone: +49 (0) 931-27881-0

Our Customer Service addresses within and outside of Germany can be found at:
www.hensel.de