

# // CITO 500

Compact flash unit



USER MANUAL //

WWW.HENSEL.DE

**HENSEL**  
■■■■■ PERFORMING LIGHT



HENSEL-VISIT GmbH & Co. KG  
Robert-Bunsen-Str. 3  
D-97076 Würzburg  
GERMANY

Tel. +49 (0) 931 27881-0  
Fax: +49 (0) 931 27881-50  
Email: [info@hensel.de](mailto:info@hensel.de)  
Internet: <http://www.hensel.de>

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900.0003.00

## For Your Safety

This device was developed according to the latest standards of technology and manufactured, with greatest care and testing, from high-quality material.

However, its use can result in bodily injury and property damage.

Please note the general safety guidelines and warnings that precede each use when operating this device. Please read all of the enclosed instructions.





Please note the warnings in the documents and on the device.

Only use the device when it is in proper condition. Be aware of safety precautions and possible danger.

Keep this document available with the device.

## Safety Precautions and Warning Notices


The warning notices are marked with the following danger icons and signal words according to severity:

Danger icon	Signal word	Explanation
	DANGER	Warning of danger which can lead to <b>major or fatal injuries</b> if disregarded.
	WARNING	Warning of danger which can lead to <b>major or fatal injuries</b> if disregarded.
	CAUTION	Warning of danger which can lead to <b>injuries</b> if precautions are disregarded.
	CAUTION	Warning of danger which can lead to <b>property damage</b> if disregarded.

## Structure of Warning Notices

Warning notices are indicated by separation lines above and below. They are structured according to the following principle:

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<b>SIGNAL WORD</b>	<b>Type and Source of Danger</b>
	Explanations of the type and source of danger <ul style="list-style-type: none"> <li>Measures to avert danger</li> </ul>

---

# Basic Safety Instructions

## Safety Hints Pertaining to Emitted Optical Radiation

Electrical power is changed inside the flash tube to intensive optical radiation:

- Do not flash directly into eyes from a short distance because the emitted intensive optical radiation can cause eye and skin damage.
- Do not look directly into flash reflector; the flash may be accidentally triggered.
- In case of damage to skin or eyes caused by intensive optical radiation consult a physician immediately.

## Working in Potentially Explosive Rooms

Working in potentially explosive rooms and environments is prohibited because small sparks develop upon triggering the flash.

- Never work in potentially explosive environments.
- Do not work near flammable material.
- Do not store flammable material in direct vicinity of flash generators and flash lamps to avoid fire hazards.

## Ozone Formation

Closed rooms must be ventilated frequently to prevent excessive ozone formation which can result from the use of strong flash units.

## Protecting Equipment from Moisture and Splash Water

Flash units need to be protected from high humidity, moisture, wetness and splash water. Therefore, please do not place containers with liquids on the flash units.

Take care that neither the flash unit nor the flash or mains cable is lying on a wet floor.

## **Connecting Accessories**

Do not connect accessories from other manufacturers, even if these look similar or identical.

## **Not in Use During Dust Development**

Equipment that is not in use when doing work that results in strong dust development needs to be covered with suitable dust protection.

## **Safety Hints Pertaining to the Electrical System**

Contact with the flash generator's capacitor voltage is life threatening. Therefore, opening the housing and repairs may only be done by authorized customer service personnel:

- Never open the device – high voltage, risk of death!
- The unit may only be connected to a power supply with working equipment grounding conductor.
- Use only lamp plugs with flawless contacts. Burned down or corroded plug contacts may cause a fire.
- Defective plugs may lead to defective plug sockets.
- To prevent damages, avoid leading cables across floors. If this cannot be avoided, make sure that the cable is not damaged by vehicles, ladders, etc. Damaged cables and housings need to be replaced immediately by authorized customer service personnel.

## **Explosion of Flash Tube**

The flash tube is filled with xenon gas. There is negative pressure inside the flash tube. Plasma develops during flashing due to electrical energy being changed to radiation. This plasma development then causes positive pressure inside the flash tube. At the same time, the glass tube is exposed to strong mechanical forces. Minimal defects of the fused quartz glass, visually impossible to notice, may possibly lead to the explosion of the flash tube.

- In case the flash tube explodes, there is a danger of tiny glass particles flying around. The user of this equipment needs to make sure to protect himself by the use a safety glass dome.
- The flash tube can only explode during the flash process. Therefore, the flash head should never be directed at a person during flashing.
- Immediately disconnect the flash head from the generator if the flash tube becomes damaged. Electrodes carry high voltage!
- Flash tubes must only be changed by authorized and trained personnel.
- The flash tube must only be changed after the device is disconnected from the power supply and is completely discharged.

## **Risk of Burns from Reflector and Flash Unit**

After flashing there is a risk of burns caused by the reflector and the flash unit due to hot parts on the housing or infrared heat radiation.

## Preface

Dear customer,

By purchasing the compact flash unit Cito 500, you have selected a high quality and high performance product.

Below, we want to give you some details and hints on how to use this unit that will ensure successful and productive work with it in the coming years. Observing the information below entitles you to guarantee adjustments, prevents damages, and extends the operational life of the unit.

HENSEL-VISIT made all efforts to produce a safe and high-quality piece of equipment while observing all current rules and regulations. Stringent quality checks ensure our high quality standard even in large-scale production. Please do your part and treat the equipment with the necessary care.

In case of questions regarding the use of this equipment, feel free to call us any time.

HENSEL-VISIT GmbH & Co. KG



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## Description

The Cito 500 is a powerful compact flash unit. Extremely fast flash recycle times and very short flash duration hallmark this unit which can be used worldwide thanks to multi voltage. A bright, proportional modeling light which can be adjusted, high-quality performance electronics and the EH reflector connector are all housed in a solid housing made from aluminum profiles and metal side panels.

A built-in radio receiver for Hensel Strobe Wizard Plus and freemask allow full remote control of this unit's functions like triggering, output regulation, and modeling light.

## Normal Use

The compact flash unit Cito 500 is intended for professional use inside the studio. It is only to be used with the accessories described in this manual and approved by Hensel-Visit.

## Following the Instructions

Following the instruction manual and all other pertinent documents is part of the intended use.

## Technical Data

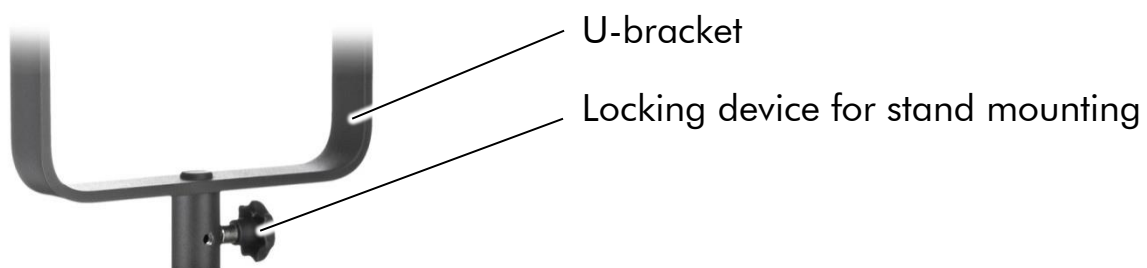
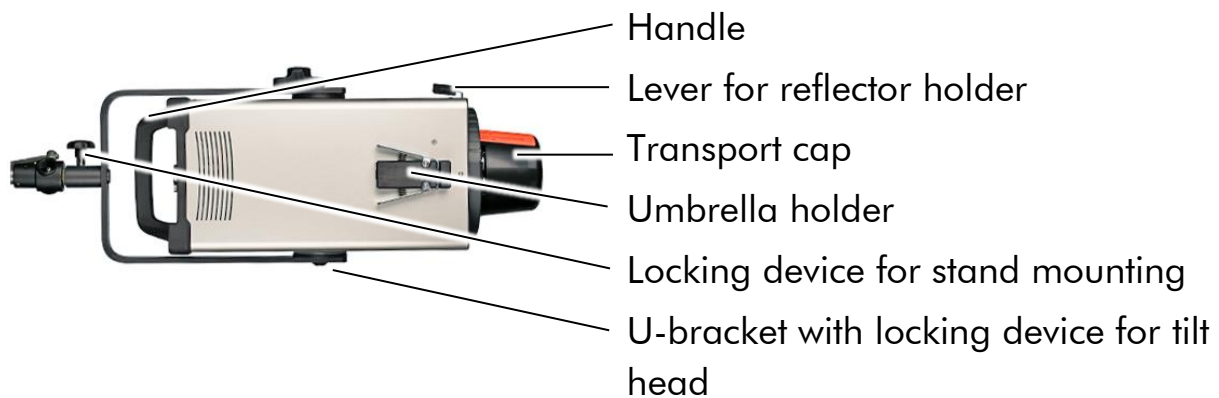
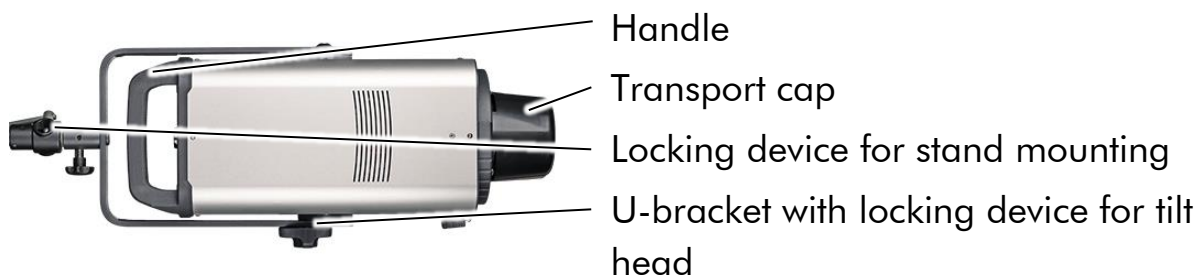
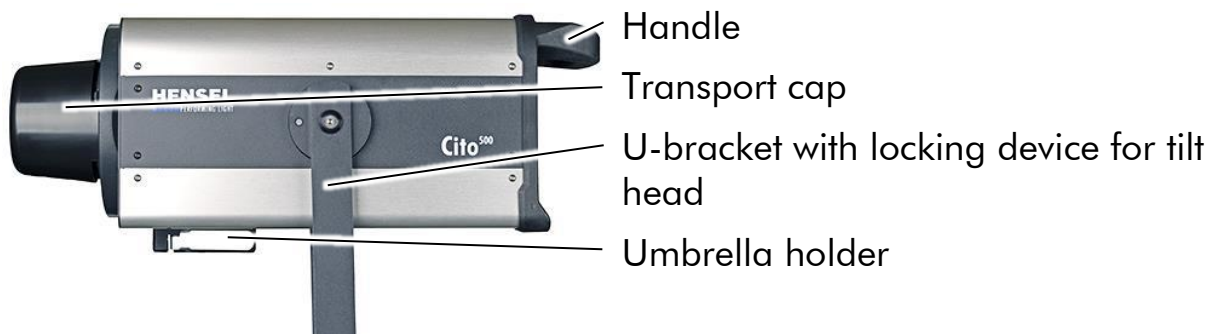
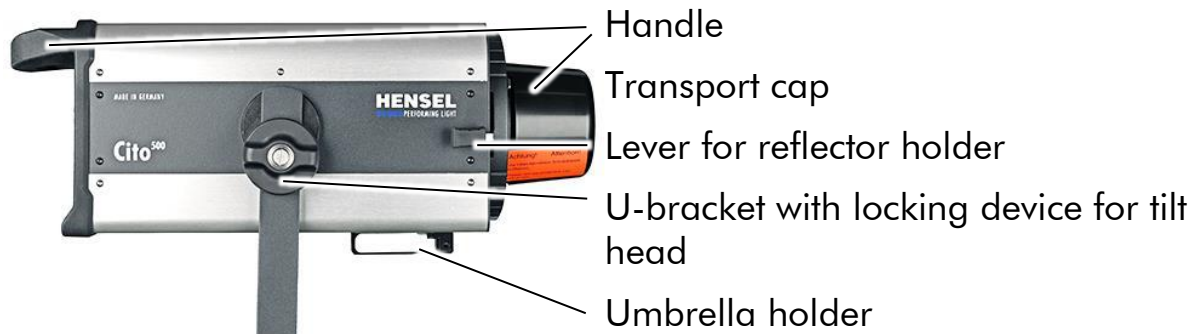
Unit type	Cito 500
Article number	3060
Listed performance output	500 J
Lead aperture <sup>1</sup>	90 2/10 (1 m) / 32 9/10 (2 m)
Min. flash duration <sup>2</sup>	1/100,000 s
Max. flash duration <sup>2</sup>	1/2,000 s
Min. recharge time	0.025 s
Max. recharge time	0.5 s
Max. flash frequency	40 Hz
Flash performance adjustment	9 f-stop
Weight	6.2 kg (incl. U-bracket)
Overall dimensions, L x B x H in cm	43.0 cm x 21.5 cm x 18.3 cm (without U-bracket)
Glass safety dome	9454661
Flash tube	9450420
Modeling light	300 W/G6.35/115 V respectively 300W/G6.35/230V
Modeling light adjustment	Off / full / proportional
Sync socket/voltage	6.3 mm plug

<sup>1</sup> Measured with 100 ASA, 1/60 s, 100 % output and 12"-reflector at a distance of 1m and 2 m.

<sup>2</sup> All times refer to the full width half-maximum time  $t_{0.5}$ .

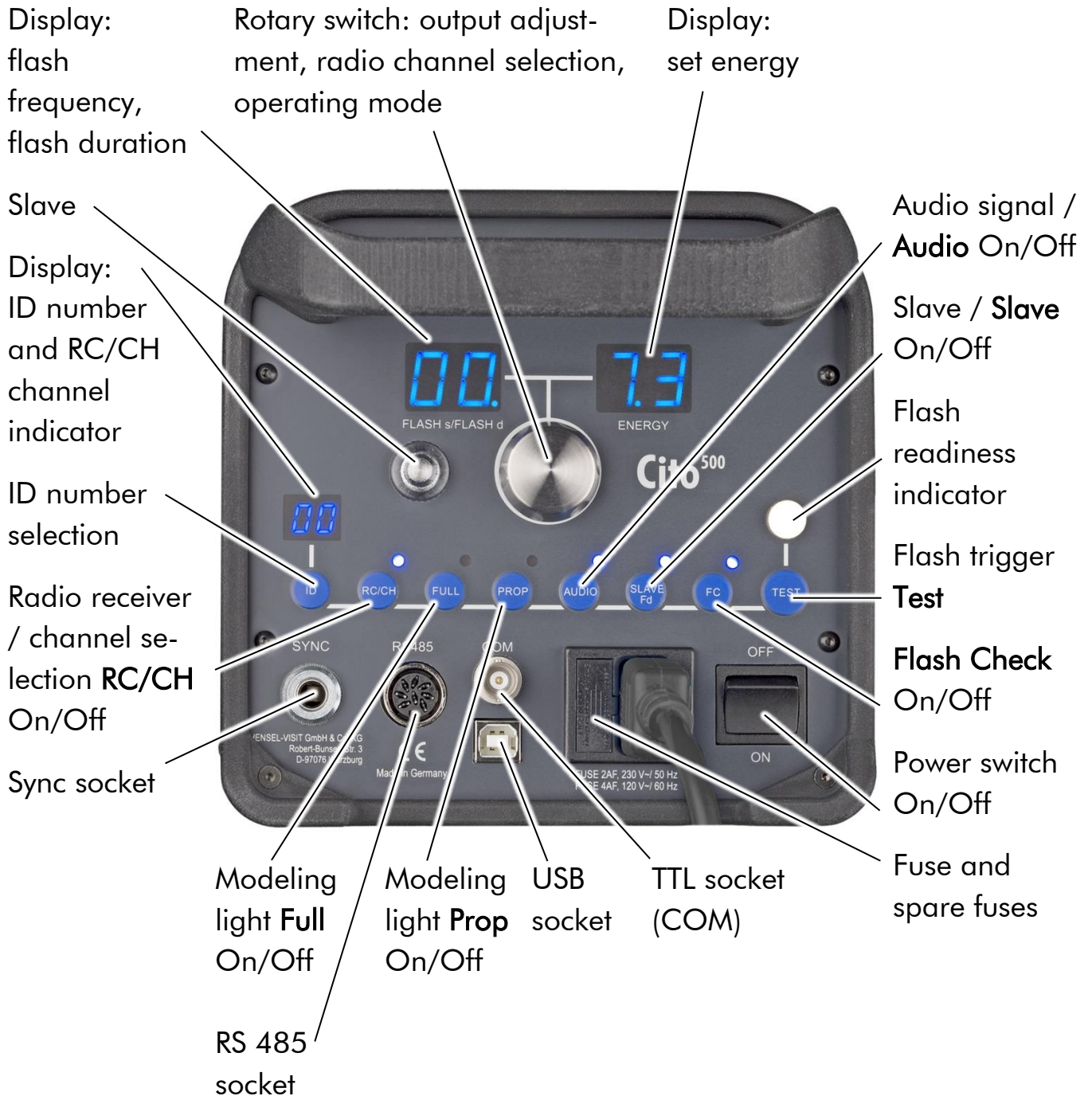
<b>Built in radio receiver</b>	StrobeWizard Plus and freemask
<b>Fuses</b>	2 A F (230 V) / 4 A F (115 V)
<b>Input voltage</b>	Multivoltage 90 V – 230 V
<b>Reflector connector</b>	Quick-change automatic for EH (10 cm)
<b>Additional features</b>	Thermal check of performance electronics
<b>Daily flash counter, reset function</b>	Yes
<b>Built-in fan</b>	Yes
<b>Slave, switchable</b>	Yes
<b>Flash check, switchable</b>	Yes
<b>Modeling light stand-by</b>	Autored
<b>Internal power dump when reducing output</b>	Yes
<b>Display</b>	7-segment for flash energy/daily flash counter/channel display/autored/Error code
<b>Control surface</b>	Hensel user logic
<p>Technical modification expected.</p> <p>The listed data are standard values which may deviate depending on component tolerances.</p>	

## Equipment Description





# User Panel



## Scope of Delivery

The standard scope of delivery includes:

- 1 Cito 500
- 1 Flash tube single coated, plug-in style
- 1 Transport cap
- 1 Transport box
- 1 Glass safety dome, separately packed
- 1 Modeling light (according to customer requirement), separately packed
- 1 Cable set: mains and sync cord
- 1 User Manual

## Preparing for Initial Use

Please unpack the flash unit and control the completeness according to scope of delivery. If something is missing, please get in contact with your dealer.

For the following steps we recommend that you place the flash unit on a flat surface or mount it to a stand mount.

### Remove Transport Cap

---

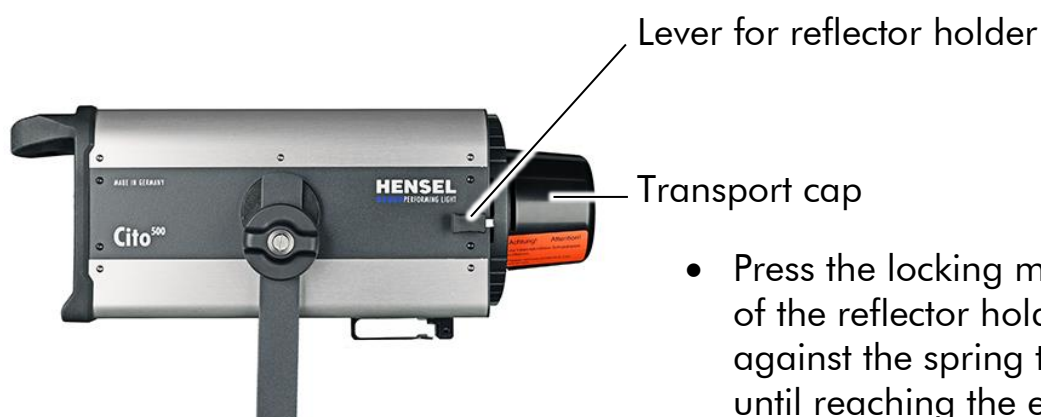
#### CAUTION



#### Risk of fire when using with transport cap

Heat which may cause fire develops during the flash process.

- Remove transport cap before use.
- 



- Press the locking mechanism of the reflector holder against the spring tension until reaching the end stop.
- Pull out the transport cap straight from the holder and keep it for future usage.
- Carefully return the locking mechanism of the reflector into its standard position with the help of the spring tension.



Protection of the flash tube during transport

- To remove the foam, pull it straight off the flash tube.

## Inserting Halogen Lamp for Modeling Light



Lamp socket for modeling light

- Place the pins into the lamp socket.



- Push the lamp carefully into place by alternating the pressure on the pins until contacting the end stop.

## Mounting Glass Safety Dome

---

### CAUTION

The flash tube may get damaged



The flash tube may get damaged during the exchange of the safety glass dome.

- Do not touch flash tube with the safety glass dome.
- 

### CAUTION

The halogen lamp or flash tube can burst due to oily residues on the glass parts.



Avoid touching the flash tube with bare hands to prevent its contamination with oily residue.

- Use cotton gloves to change the halogen lamp or the flash tube.
  - Carefully clean after touching the glass parts.
- 

Please unpack the glass safety dome and check it for obvious damages. If you find damages on the glass safety dome please contact your dealer, see paragraph "Addresses".



Springs holding the glass safety dome





- Tilt the safety dome slightly and insert it into one of the three springs.
- Then use gentle pressure to insert the safety dome first into the second spring.
- And then into the third spring until it locks into place.

## Power Supply



Mains cord

- Plug the mains cord into the mains adapter socket of the compact flash unit.
- Connect the mains cord with the mains supply socket.

## Switch On



Power switch

- Turn the unit on by pressing the power switch.



Display

After powering on, the first thing displayed is the version of the firmware (Fr).

Now electrical energy is fed to the capacitors where it is stored.



Flash readiness indicator

If the flash readiness indicator is on, the set energy is stored inside the unit.

The compact flash unit is now ready for use.

## Test Flash

### WARNING

**Danger of eye and skin injuries due to optical radiation**



An intensive optical radiation develops during the flash process which can harm unprotected eyes or skin.

- Do not flash into the face from short distances.



Flash readiness indicator

Key **TEST**

If the flash readiness indicator above the key **TEST** turns on, the unit is ready for use.

- To trigger a flash, press the key **TEST** once.



## Test the Modeling Light

### WARNING

**Danger of eye and skin injuries due to optical radiation**



An intensive optical radiation develops during the flash process which can harm unprotected eyes or skin.

- Do not flash into the face from short distances.



Indicator for **FULL** mode

Key **FULL**

Indicator for **PROP** mode

Key **PROP**

If one of both indicators is on, then the modeling light is turned on.

If none of both indicators is on, press the key **FULL**. The indicator above the button turns on and the modeling light is turned to maximum brightness.

If none of both indicators (**FULL** or **PROP**) is on, please check the halogen lamp of the modeling light for defects.

## Stand Mounting

---

### WARNING

### Danger of bruising



When opening the locking screws you are in danger of bruising your hands and fingers.

- When opening the screw of the tilting bracket, hold the flash unit with the other hand to avert unwanted motion.
- 



Locking device, stand mounting

- Loosen the locking device turning it a few times.
- Please make sure that you don't turn it loose completely.



Locking device, stand mounting

- Put the flash unit on the stand mounting and tighten the locking device.
- For rotating the flash unit on the stand mounting loosen the locking device, turn the flash unit and tighten the locking device.



Locking screw, tilting bracket

- For tilting of the flash unit, loosen the locking screw of the tilting bracket.
- Tilt the flash unit into the desired position and tighten the locking screw of the tilting bracket again.

## Mounting to Ceiling or Pantograph

---

### WARNING

#### Danger from falling objects



The fastening of ceiling mounted flash units can come loose and equipment could fall down.

- Use an additional safety screw on the tilting bracket.
  - Use a safety rope for additional protection.
- 

### WARNING

#### Danger of bruising

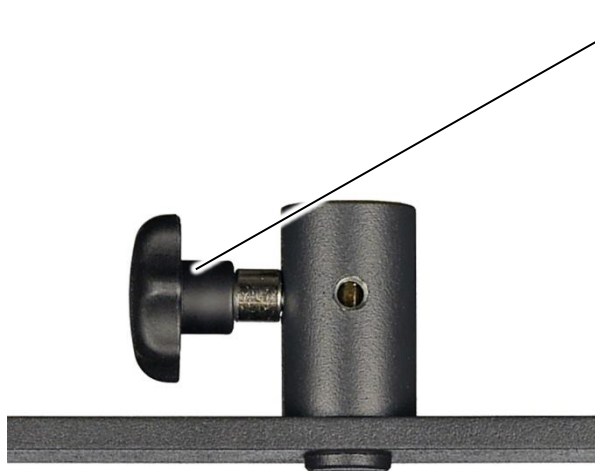


When opening the locking screws you are in danger of bruising your hands and fingers.

- When opening the screw of the tilting bracket, hold the flash unit with the other hand to avert unwanted motion.
- 

Secure the equipment with a back-up support when attaching it to ceilings or pantographs. Use the stand mounting's safety screw and secure the device additionally with a safety rope.

Suitable safety ropes can be purchased from Hensel-Visit, see „Accessories“ and [www.hensel.de](http://www.hensel.de).



Locking device, stand mounting

- Loosen the locking device turning it a few times.
- Please make sure that you don't turn it loose completely.
- Insert the tilting bracket of the flash unit into the stud of the pantograph or the boom.
- Tighten the locking device stand mounting.



Safety screw for suspended mounting

- Use an additional safety screw:
- Code no. 9979839 Screw hexagonal M6x16 DIN 933 ISO 4017 vz
- Code no. 9997919 Nut M6 DIN 934 ISO 4032



Safety rope article number 7690

Spring safety hook

Rope thimble



U-bracket

- Pull the safety rope through a suitable opening of the pantograph.
- Put the safety rope through the U-bracket.
- Insert the rope thimble in the spring safety hook.
- Close the spring safety hook and tighten it.



Locking screw, tilting bracket

- For tilting of the flash unit, loosen the locking screw of the tilting bracket.
- Tilt the flash unit into the desired position and tighten the locking screw of the tilting bracket again.

## Mounting a Reflector

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### CAUTION

#### Risk of burns from reflector and flash unit



Heat which may cause burns develops at the head during the flash process.

- Before removing the reflector allow reflector and flash unit to cool off.

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### CAUTION

#### Glass safety dome may get damaged



When mounting a reflector the glass safety dome can be damaged.

- Do not touch the glass safety dome with the reflector.
- While mounting a reflector place the flash unit on a stand.
- Place the reflector evenly on the flash unit. Make sure that all three holding claws are inside the reflector.
- When mounting a reflector hold it with one hand.

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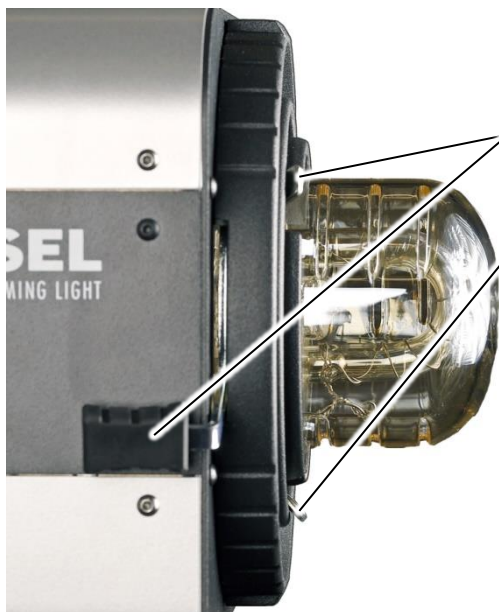
### CAUTION

#### The system may become damaged if external products are used.



The system may become damaged when components are changed or accessories are connected.

- Only use original parts and HENSEL-VISIT accessories.
-



Lever of the reflector holder

Fingers

- Press the locking mechanism of the reflector holder against the spring tension until reaching the end stop.
- Put the reflector onto the unit and make sure that the 3 fingers are inside the reflector.



- Hold the reflector with one hand while carefully returning the locking mechanism of the reflector into its standard position with the help of the spring tension.
- Check the correct mounting of the reflector.

## Removing a Reflector

---

### CAUTION

#### Risk of burns from reflector and flash unit



Heat which may cause burns develops at the head during the flash process.

- Before removing the reflector allow reflector and flash unit to cool off.
- 

### CAUTION

#### Glass safety dome may get damaged



When mounting a reflector the glass safety dome can be damaged.

- Do not touch the glass safety dome with the reflector.
  - While mounting a reflector place the flash unit on a stand.
  - Place the reflector evenly on the flash unit. Make sure that all three holding claws are inside the reflector.
  - When mounting a reflector hold it with one hand.
-

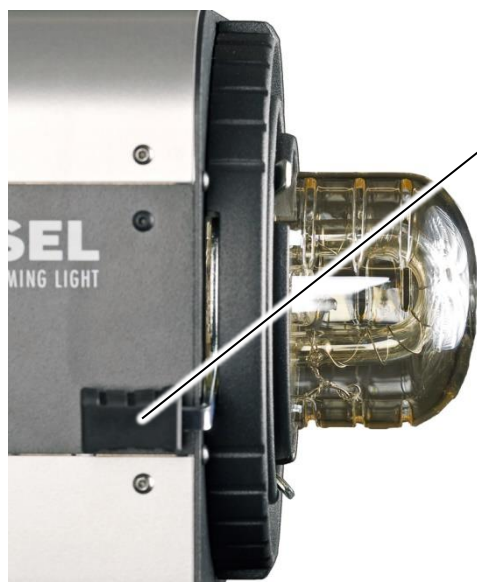




Lever of the reflector holder

Reflector

- Hold the reflector with one hand.
- With the other hand, press the locking mechanism of the reflector holder against the spring tension until reaching the end stop.



Lever of the reflector holder

- Remove the reflector from the unit and put it aside.
- Carefully return the locking mechanism of the reflector into its standard position with the help of the spring tension.

## Modeling Light

The modeling light is switched on by using the key **FULL** or **PROP**:

Mode **FULL**: The modeling light is set at full power.

Mode **PROP**: The light output (brightness) of the modeling light is proportional to the flash output.

### Mode FULL

The modeling light is set at full power, independent of the flash output.



Key **FULL**

- Press the key **FULL**, to turn the modeling light to full power.
- The indicator above the key turns on.

## Mode PROP

The light output (brightness) of the modeling light is proportional to the flash output.



Key **PROP**

- Press the key **PROP**, the brightness of the modeling light is now proportional to the flash output.
- The indicator above the key turns on.

## Turn off the Modeling Light

You can turn off the modeling light completely by either deactivating the **FULL** or **PROP** mode by pressing the respective key.



Key **FULL**

Key **PROP**

- Press the key **FULL** or the key **PROP**, to switch off the modeling light.
- If both indicators above the keys **FULL** and **PROP** are dark, the modeling light is turned off.

## Performance Output Adjustment

The rotary switch adjusts the flash output over an output range of 9 f-stops from 2.0 (lowest output) to 10 (maximum output).

The flash duration time is shown in display FLASH/s in 1/1,000 seconds.

Example: 1/2,000 seconds = 02, 1/32,000 seconds = 32



Rotary switch

Flash readiness indicator

- The rotary switch adjusts the flash output in steps of 0.1 f-stops.
- Turning it counter-clockwise reduces the output in steps of 0.1 f-stops.
- The internal power reduction takes a moment. The flash readiness indicator lights up to indicate restored flash readiness.

## Setting the Flash Sequence

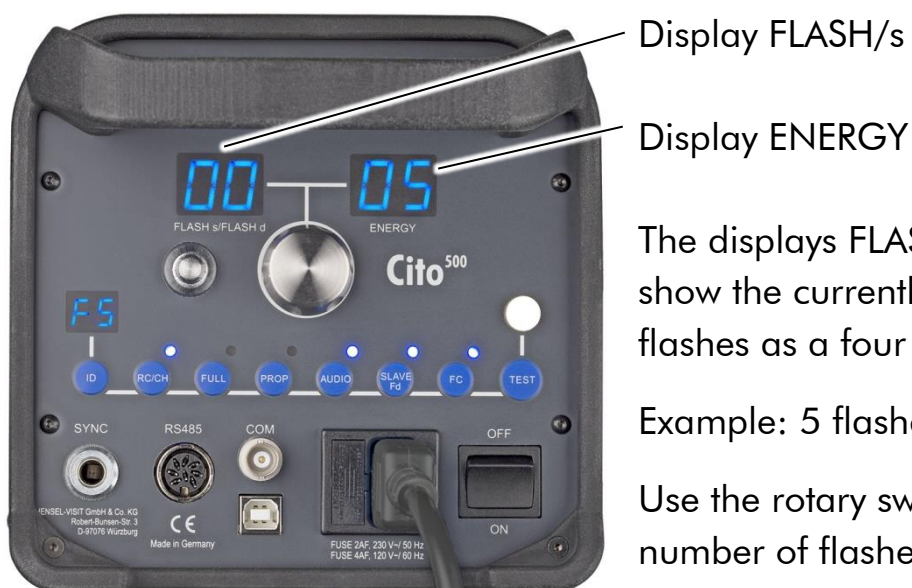
You can set how many flashes the flash unit sets off in sequence after triggering.



Display ID

FC key

- Press the FC key for 1.5 s
- "FS" for Flash Sequence appears in the display ID



Display FLASH/s

Display ENERGY

The displays FLASH/s and ENERGY show the currently set number of flashes as a four digit value.

Example: 5 flashes = 00 05

Use the rotary switch to set the number of flashes.





Rotary switch

- Briefly press the rotary switch.
- The lowest digit in the display blinks and can be changed by turning the rotary switch.
- Press the rotary switch again to jump one space to the left.
- Pressing the rotary switch after setting all numbers ends this menu.

## Setting Flash Distance within a Flash Sequence

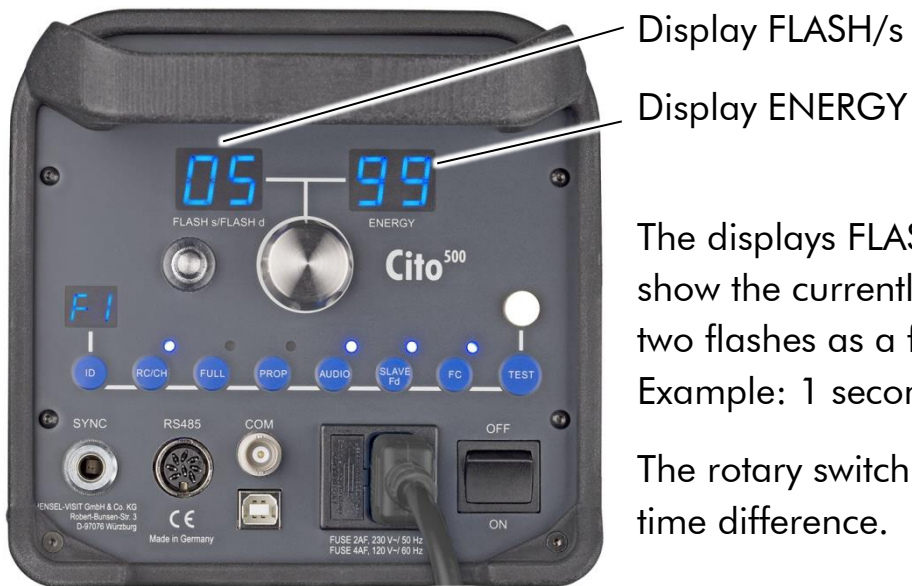
You have the option of changing the time between the flashes in a flash sequence from 1 millisecond to 9999 milliseconds.



Display ID

ID key

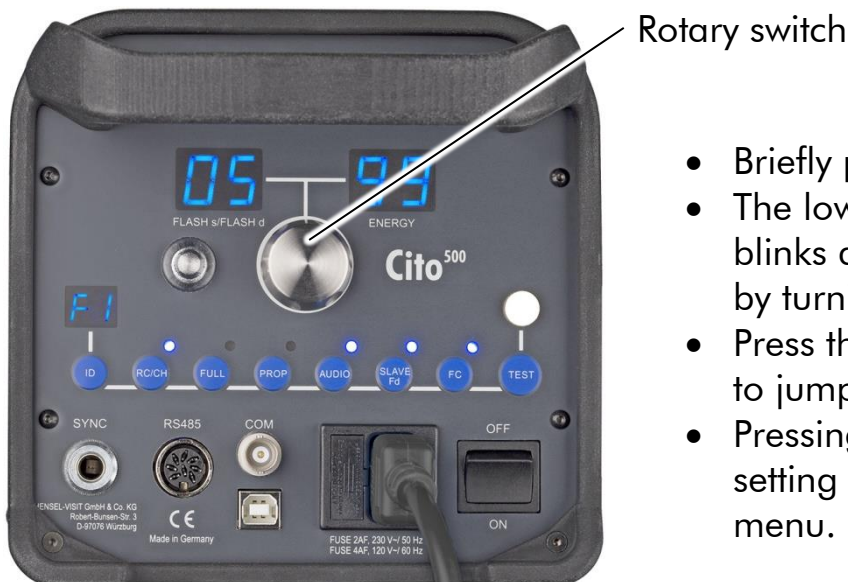
- Press the ID key.
- FI for Flash Interval appears in the display ID.



The displays FLASH/s and ENERGY show the currently set time between two flashes as a four-digit value.

Example: 1 second = 10 00

The rotary switch lets you set the time difference.



- Briefly press the rotary switch.
- The lowest digit in the display blinks and can be changed by turning the rotary switch.
- Press the rotary switch again to jump one space to the left.
- Pressing the rotary switch after setting all numbers ends this menu.

# Manual Flash Trigger

## WARNING

Danger of eye and skin injuries due to optical radiation



An intensive optical radiation develops during the flash process which can harm unprotected eyes or skin.

- Do not flash into the face from short distances.



Flash readiness indicator

Key **TEST**

If the flash readiness indicator above the key **TEST** is turned on, the unit is ready for use.

- To trigger a flash, press the key **TEST** once.



## Flash Check

The compact flash unit is equipped with a visual flash readiness indicator called **Flash Check**. When this function is activated, the modeling light shuts off after flashing and turns on again when the flash readiness is restored.



## Synchronization

Synchronization between compact flash unit and camera can be optionally achieved via sync cord, the built-in slave, or a built-in radio receiver.

### Synchronization via Cord

The synchronization process uses the latest semiconductor technology and warrants reliable triggering of the flash unit even when older camera models with mechanical contacts are used. The lower voltage of the sync plug ensures safe and reliable operation, also with the use of modern digital cameras.



Synchronization socket

- Plug the 6.3 mm jack into the synchronization socket of the compact flash unit.
- Connect the other end of the sync cord to the camera's sync socket. Please consult the user manual of your camera.

## Synchronization via Slave

The built-in slave triggers the flash when light from another flash is detected (slave mode).

The slave is an impulse photo cell. It only triggers the flash when the striking light is brighter than the ambient light.



Slave

Indicator for **SLAVE** Mode

Key **SLAVE**

- To activate the **SLAVE** mode press the key **SLAVE**.
- The active setting is indicated via LED above the key **SLAVE**.

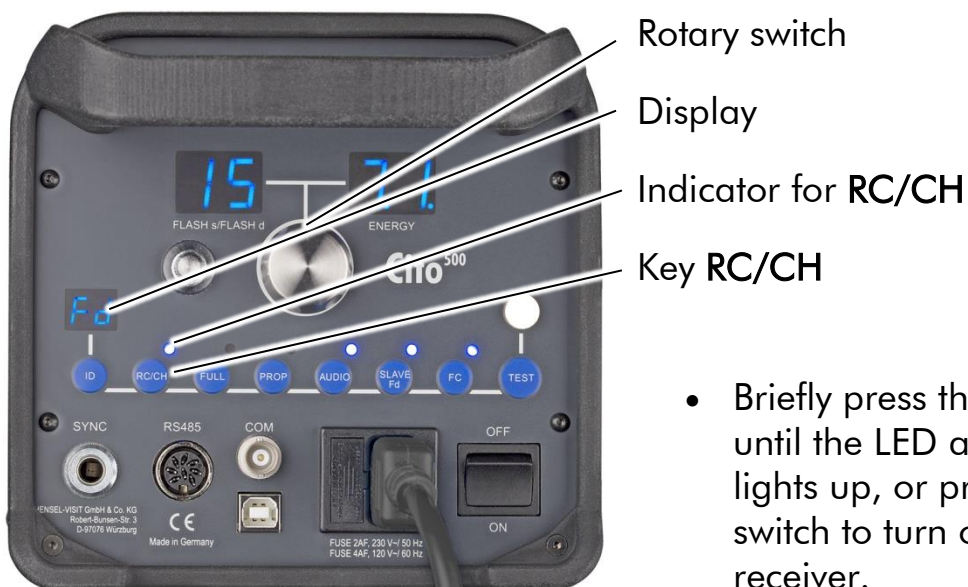
## Synchronization via Radio Remote Trigger

The compact flash unit is equipped with radio receivers for the HENSEL Strobe Wizard plus and the HENSEL freemask system.

The optional radio remote triggers Strobe Wizard Plus and freemask are used to conveniently synchronize the camera and flash unit via radio remote control.

Please have a look at the user manual of the radio remote trigger.

## Activate Built-in Radio Receiver



- Briefly press the key **RC/CH** until the LED above the key lights up, or press the rotary switch to turn on the radio receiver.

## Selecting Radio Channel



- Pressing the **SLAVE Fd** key for 1.5 s ends the flash duration mode Fd (standard mode).



- Press the key **RC/CH** for 1 s to switch the channels of the radio receiver.
- The ID display shows the setting.
- Turning the rotary switch within 3 s lets you set the desired channel.
- Approximately 3 s after a key was last pressed, the channel is saved and the display stops blinking.

After the channel „C1“ come the channels „C2“ and „C3“ of Strobe Wizard Plus, directly after them the channels „F1“, „F2“ and „F3“ of the freemask receiver.



Display ID

SLAVE key

- Press the **SLAVE** key for 1.5 s.
- Now Fd for flash duration (standard mode) appears in the display ID.



## Synchronization via RS 485 Interface



RS485 Interface

- Connect the RS485 interface with your computer.
- Please contact Hensel-Visit at [info@hensel.de](mailto:info@hensel.de) for detailed information.

## Assigning an ID number

The ID key lets you assign an identification number between 00 and 09 to each individual unit. The flash duration mode Fd (standard mode) must be switched off for this.



Rotary switch

SLAVE Fd key

- Pressing the SLAVE Fd key for 1.5 s ends the flash duration mode Fd (standard mode).



ID Display

ID key

- Press the ID key to set the desired ID.

Each pressing of the key raises the identification number by one. Beyond 09 the numbering starts over with 00.



Display ID

SLAVE key

- Press the SLAVE key for 1.5 s.
- Now Fd for flash duration (standard mode) appears in the display ID.

## COM Interface

Via the COM interface, the unit can be connected to a TTL<sup>1</sup> signal transmitter for triggering flash discharge.

<sup>1</sup>Here, the term TTL stands for “Transistor Transistor Logic” and means signal levels as they are common in logic circuits. The TTL signal must have a level of 0V (low) at resting state. The positive 5V (high) edge triggers a flash.



BNC socket

- Plug the BNC plug of the BNC cord into the BNC socket of the flash unit.
- Connect the other end of the BNC cord with the application available with the TTL trigger signal.

The duration time of the flash can be also set via the width of the TTL pulse. Of course, this cannot be longer than the maximum flash duration.

Example: If you want to set off a flash with duration of  $200\ \mu\text{s}$ , you apply a pulse with a width of  $200\ \mu\text{s}$  to the TTL socket (+5V).

You can set the time difference between flashes via the distance of the TTL pulse.

Example: If you want a break of  $200\ \mu\text{s}$  between flashes, produce a pulse sequence with  $200\ \mu\text{s}$  pulse distance.



Rotary switch

SLAVE Fd key

- Pressing the SLAVE Fd key for 1.5 s ends the flash duration mode Fd (standard mode).



Display FLASH/s

Rotary switch

- Briefly press the rotary switch to switch between the operational modes
- The mode "Frequency Mode" is active when the dot at the bottom right blinks in the display FLASH/s.

## Frequency Mode

This is the standard mode for industrial and scientific applications.

In this mode, the flash recycle frequency externally set by the user (via the sync socket, RS 4865 interface, COM interface, photo cell, or radio) is strictly adhered to up to the maximum frequency (40 Hz). Frequencies exceeding 40 Hz are not possible. If you try to use higher frequencies, "HI" is shown in the display.

If a flash recycle frequency is selected that does not allow the condensers



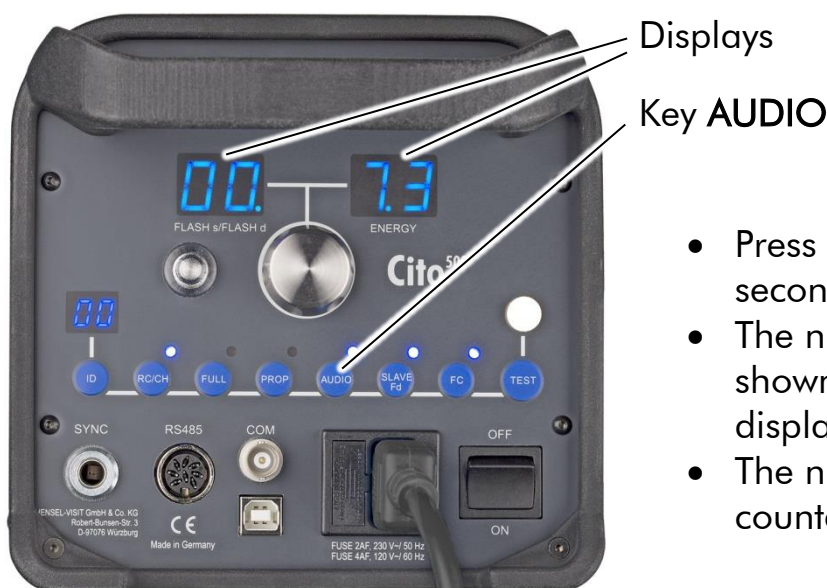
to recharge completely due to lack of time, the display "ENERGY" starts blinking. You can now flash with the selected flash recycle frequency but the power of each single flash does not correspond to the power value shown in the display "ENERGY". The unit reduces the flash power to achieve the set flash frequency.

For detailed information, contact [info@hensel.de](mailto:info@hensel.de).

## Daily Flash Counter

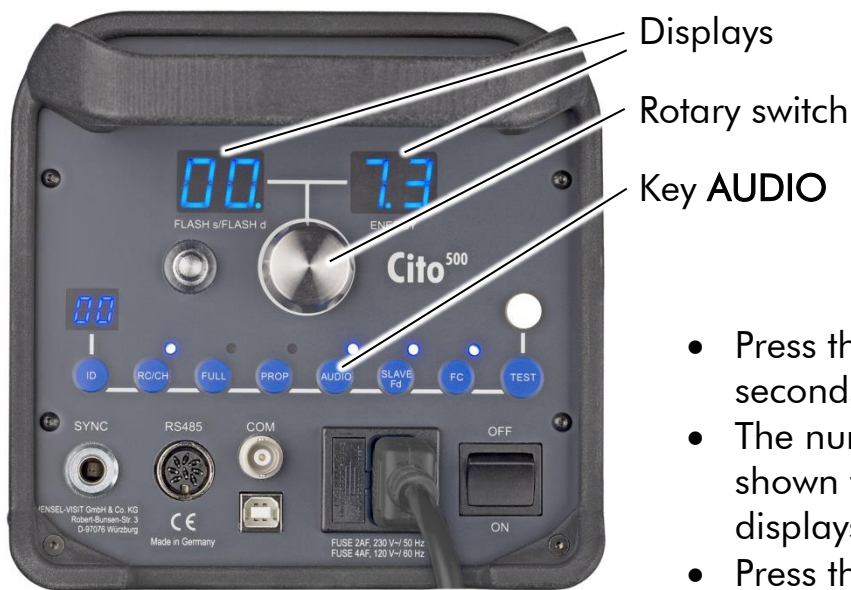


- Pressing the SLAVE Fd key for 1.5 s ends the flash duration mode Fd (standard mode).



- Press the key **AUDIO** for three seconds.
- The number of flashes is shown together in both displays.
- The number range of the flash counter goes up to 9999.

## Resetting the Daily Flash Counter



- Press the key **AUDIO** for three seconds.
- The number of flashes is shown together in both displays.
- Press the rotary switch to reset the daily flash counter to 000.
- Press the key **AUDIO** to leave the daily flash counter display.



- Press the **SLAVE** key for 1.5 s.
- Now **Fd** for flash duration (standard mode) appears in the display ID.

## Exchange the Safety Glass Dome

### CAUTION

#### Risk of burns from reflector and flash unit



Heat which may cause burns develops at the head during the flash process.

- Before removing the reflector allow reflector and flash unit to cool off.

### CAUTION

#### Glass safety dome may get damaged



When mounting a reflector the glass safety dome can be damaged.

- Do not touch the glass safety dome with the reflector.
- While mounting a reflector place the flash unit on a stand.
- Place the reflector evenly on the flash unit. Make sure that all three holding claws are inside the reflector.
- When mounting a reflector hold it with one hand.

## Switch Off and Unplug the Mains Cord



Power switch

Mains cord

- Turn the unit off by pressing the power switch.
- Unplug the mains cord from the mains supply socket.
- Unplug the mains cord from the mains adapter socket of the compact flash unit.

## Removing a Reflector

### CAUTION

### Risk of burns from reflector and flash unit



Heat which may cause burns develops at the head during the flash process.

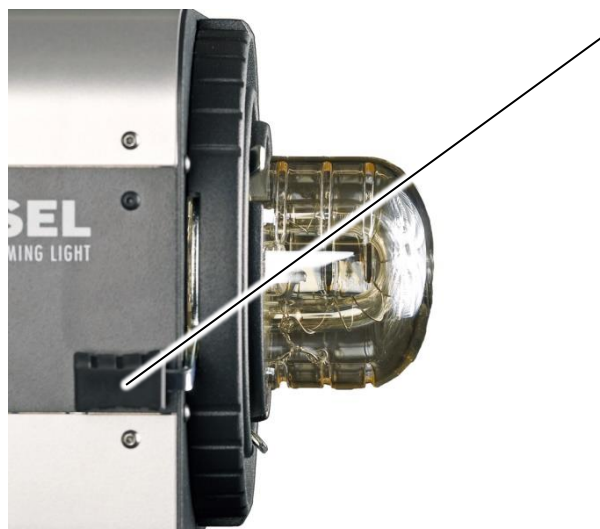
- Before removing the reflector allow reflector and flash unit to cool off.



Lever of the reflector holder

Reflector

- Hold the reflector with one hand.
- With the other hand, press the locking mechanism of the reflector holder against the spring tension until reaching the end stop.



Lever of the reflector holder

- Remove the reflector from the unit and put it aside.
- Carefully return the locking mechanism of the reflector into its standard position with the help of the spring tension.

## Removing Old or Broken Safety Glass Dome

---

### CAUTION

The flash tube may get damaged



The flash tube may get damaged during the exchange of the safety glass dome.

- Do not touch flash tube with the safety glass dome.
- 



The safety dome snaps into place via three pre-installed springs

- Tilt the safety dome slightly so that it is released one by one from the mounting springs.
- Pull the safety dome lightly from the third spring and remove it completely.

## Mount a New Safety Glass Dome

---

### CAUTION

The flash tube may get damaged



The flash tube may get damaged during the exchange of the safety glass dome.

- Do not touch flash tube with the safety glass dome.
- 

Please unpack the glass safety dome and check it for obvious damages. If you find damages on the glass safety dome please contact your dealer, see paragraph "Addresses".





Springs holding the glass safety dome



- Tilt the safety dome slightly and insert it into one of the three springs.
- Then use gentle pressure to insert the safety dome first into the second spring.
- And then into the third spring until it locks into place.

## Mounting a Reflector

### CAUTION

Glass safety dome may get damaged



When mounting a reflector the glass safety dome can be damaged.

- Do not touch the glass safety dome with the reflector.
- While mounting a reflector place the flash unit on a stand.
- Place the reflector evenly on the flash unit. Make sure that all three holding claws are inside the reflector.
- When mounting a reflector hold it with one hand.



Lever of the reflector holder

Fingers

- Press the locking mechanism of the reflector holder against the spring tension until reaching the end stop.
- Put the reflector onto the unit and make sure that the 3 fingers are inside the reflector.



- Hold the reflector with one hand while carefully returning the locking mechanism of the reflector into its standard position with the help of the spring tension.
- Check the correct mounting of the reflector.

## Connect the Mains Cord and Switch On



Mains cord

Power switch

- Plug the mains cord into the mains adapter socket of the flash unit.
- Plug the mains cord into the mains supply socket
- Turn the unit on by pressing the power switch.



# Replacing Flash Tube

---

## DANGER

## Risk of electric shock from defective flash tube



If the glass tube of the flash tube is defective, the electrodes may become exposed and cause an electric shock when touched.

- Switch off unit via the power switch.
  - Disconnect the unit from the mains voltage.
  - Wait 15 minutes for the discharge of the capacitors.
- 

## Switch Off and Unplug the Mains Cord



Power switch

Mains cord

- Turn the unit off by pressing the power switch.
- Unplug the mains cord from the mains supply socket.
- Unplug the mains cord from the mains adapter socket of the compact flash unit.

## Removing a Reflector

---

### CAUTION

#### Risk of burns from reflector and flash unit



Heat which may cause burns develops at the head during the flash process.

- Before removing the reflector allow reflector and flash unit to cool off.
- 

### CAUTION

#### Glass safety dome may get damaged



When mounting a reflector the glass safety dome can be damaged.

- Do not touch the glass safety dome with the reflector.
  - While mounting a reflector place the flash unit on a stand.
  - Place the reflector evenly on the flash unit. Make sure that all three holding claws are inside the reflector.
  - When mounting a reflector hold it with one hand.
-



Lever of the reflector holder

Reflector

- Hold the reflector with one hand.
- With the other hand, press the locking mechanism of the reflector holder against the spring tension until reaching the end stop.



Lever of the reflector holder

- Remove the reflector from the unit and put it aside.
- Carefully return the locking mechanism of the reflector into its standard position with the help of the spring tension.

## Remove Safety Glass Dome

---

### CAUTION

The flash tube may get damaged



The flash tube may get damaged during the exchange of the safety glass dome.

- Do not touch flash tube with the safety glass dome.
- 



The safety dome snaps into place via three pre-installed springs

- Tilt the safety dome slightly so that it is released one by one from the mounting springs.
- Pull the safety dome lightly from the third spring and remove it completely.

## Remove Broken Flash Tube

### DANGER

### Risk of electric shock from defective flash tube



If the glass tube of the flash tube is defective, the electrodes may become exposed and cause an electric shock when touched.

- Switch off unit via the power switch.
- Disconnect the unit from the mains voltage.
- Wait 15 minutes for the discharge of the capacitors.



Connecting pin

Ignition wire

- Unwind the ignition wire from the connecting pin.



- Carefully pull the flash tube from the plug base.
- Remove all glass debris if necessary.

## Mount a New Flash Tube

---

### CAUTION

The halogen lamp or flash tube can burst due to oily residues on the glass parts.



Avoid touching the flash tube with bare hands to prevent its contamination with oily residue.

- Use cotton gloves to change the halogen lamp or the flash tube.
  - Carefully clean after touching the glass parts.
- 

- Unpack the flash tube.
- Check the glass body of the flash tube for obvious cracks and defects.



- Place the flash tube on the plug base and carefully push the flash tube in until reaching the end stop.
- Pull the flash tube out again approximately 0.5 mm so that the glass body can expand upon warming.

## Correct Assembly



- Wrap the ignition wire onto the connecting pin and afterwards onto itself facing the glass body.
- If the remaining ignition wire is too long, it can be cut with a caliper.

## False Assembly



- If the ignition wire is wrapped loosely onto the connecting pin the unit might not flash properly.
- If the ignition wire is not wrapped onto itself facing the glass body, the ignition voltage flows via the metal parts of the unit to the protecting earth.



## Mounting of the Glass Safety Dome

---

### CAUTION

The flash tube may get damaged



The flash tube may get damaged during the exchange of the safety glass dome.

- Do not touch flash tube with the safety glass dome.
- 



Springs holding the glass safety dome



- Tilt the safety dome slightly and insert it into one of the three springs.
- Then use gentle pressure to insert the safety dome first into the second spring.
- And then into the third spring until it locks into place.



## Mounting a Reflector

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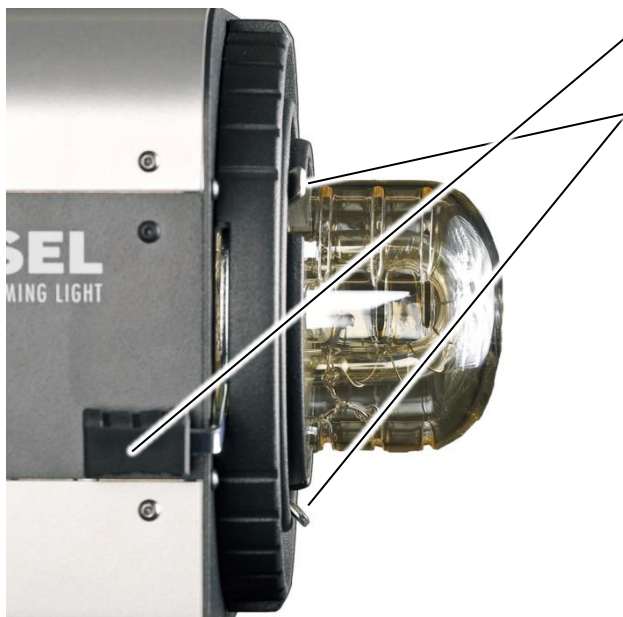
### CAUTION

### Glass safety dome may get damaged



When mounting a reflector the glass safety dome can be damaged.

- Do not touch the glass safety dome with the reflector.
  - While mounting a reflector place the flash unit on a stand.
  - Place the reflector evenly on the flash unit. Make sure that all three holding claws are inside the reflector.
  - When mounting a reflector hold it with one hand.
- 



Lever of the reflector holder

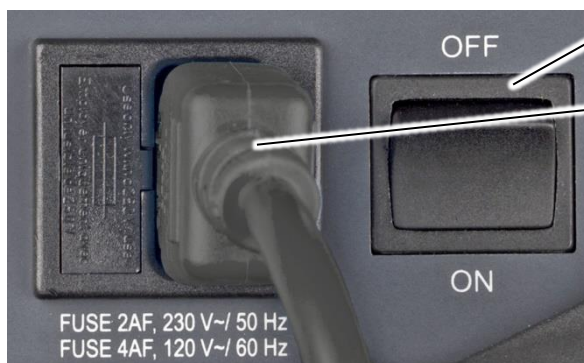
Fingers

- Press the locking mechanism of the reflector holder against the spring tension until reaching the end stop.
- Put the reflector onto the unit and make sure that the 3 fingers are inside the reflector.



- Hold the reflector with one hand while carefully returning the locking mechanism of the reflector into its standard position with the help of the spring tension.
- Check the correct mounting of the reflector.

## Connect the Mains Cord and Switch On



Mains cord

Power switch

- Plug the mains cord into the mains adapter socket of the flash unit.
- Plug the mains cord into the mains supply socket
- Turn the unit on by pressing the power switch.

## Test Flash

### WARNING

**Danger of eye and skin injuries due to optical radiation**



An intensive optical radiation develops during the flash process which can harm unprotected eyes or skin.

- Do not flash into the face from short distances.



Flash readiness indicator

Key **TEST**

If the flash readiness indicator above the key **TEST** is turned on, the unit is ready for use.

- To trigger a flash, press the key **TEST** once.

# Replace the Halogen Lamp for Modeling Light

---

## CAUTION



### Risk of burns from reflector and flash unit

Heat which may cause burns develops at the head during the flash process.

- Before removing the reflector allow reflector and flash unit to cool off.

---

## CAUTION



### Halogen lamp for modeling light can be damaged

When connecting the flash unit to the mains voltage the halogen lamp of the modeling light can be destroyed.

- Check the type of the halogen lamp and the fuse:

Mains voltage	Halogen lamp	Fuse
110 V	300 W / 110 V	4 A F
230 V	300 W / 230 V	2 A F

---

## CAUTION

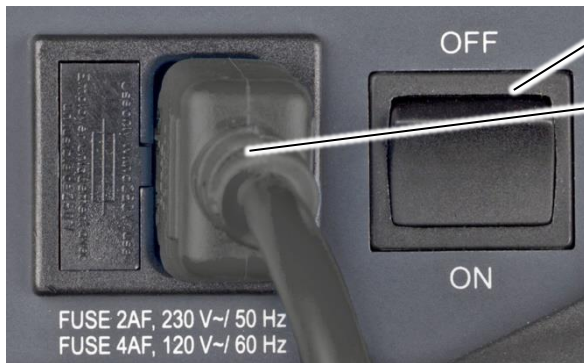


### Glass safety dome may get damaged

When mounting a reflector the glass safety dome can be damaged.

- Do not touch the glass safety dome with the reflector.
- While mounting a reflector place the flash unit on a stand.
- Place the reflector evenly on the flash unit. Make sure that all three holding claws are inside the reflector.
- When mounting a reflector hold it with one hand.

## Switch Off and Unplug the Mains Cord



Power switch

Mains cord

- Turn the unit off by pressing the power switch.
- Unplug the mains cord from the mains supply socket.
- Unplug the mains cord from the mains adapter socket of the compact flash unit.

## Removing a Reflector

---

### CAUTION

#### Risk of burns from reflector and flash unit



Heat which may cause burns develops at the head during the flash process.

- Before removing the reflector allow reflector and flash unit to cool off.

---

### CAUTION

#### Glass safety dome may get damaged

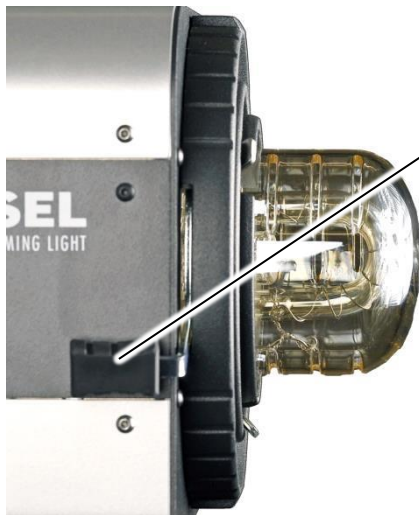


When mounting a reflector the glass safety dome can be damaged.

- Do not touch the glass safety dome with the reflector.
- While mounting a reflector place the flash unit on a stand.
- Place the reflector evenly on the flash unit. Make sure that all three holding claws are inside the reflector.
- When mounting a reflector hold it with one hand.



- Hold the reflector with one hand.
- With the other hand, press the locking mechanism of the reflector holder against the spring tension until reaching the end stop.



Lever of the reflector holder

- Remove the reflector from the unit and put it aside.
- Carefully return the locking mechanism of the reflector into its standard position with the help of the spring tension.

## Remove Safety Glass Dome

### CAUTION

The flash tube may get damaged



The flash tube may get damaged during the exchange of the safety glass dome.

- Do not touch flash tube with the safety glass dome.



The safety dome snaps into place via three pre-installed springs

- Tilt the safety dome slightly so that it is released one by one from the mounting springs.
- Pull the safety dome lightly from the third spring and remove it completely.



## Removing Halogen Lamp

---

### CAUTION

The flash tube may get damaged



The flash tube may get damaged during the exchange of the halogen lamp.

- Do not touch the flash tube.
- 



Lamp socket for modeling light

- Carefully pull the lamp from its plug connector.



## Inserting Halogen Lamp for Modeling Light

### CAUTION

#### Halogen lamp for modeling light can be damaged



When connecting the flash unit to the mains voltage the halogen lamp of the modeling light can be destroyed.

- Check the type of the halogen lamp and the fuse:

Mains voltage	Halogen lamp	Fuse
110 V	300 W / 110 V	4 A F
230 V	300 W / 230 V	2 A F

### CAUTION

#### The flash tube may get damaged



The flash tube may get damaged during the exchange of the halogen lamp.

- Do not touch the flash tube.

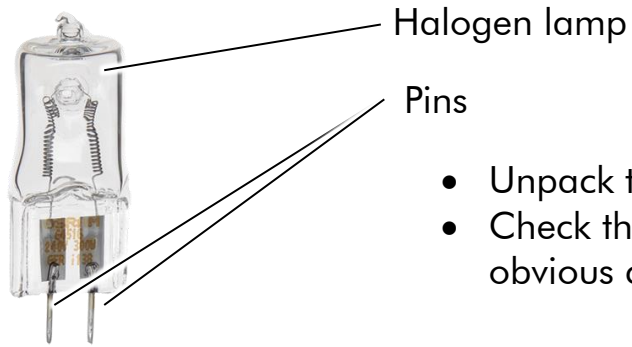
### CAUTION

#### The halogen lamp or flash tube can burst due to oily residues on the glass parts.



Avoid touching the flash tube with bare hands to prevent its contamination with oily residue.

- Use cotton gloves to change the halogen lamp or the flash tube.
- Carefully clean after touching the glass parts.



- Unpack the halogen lamp.
- Check the halogen lamp for obvious cracks in the glass.



- Place the pins into the lamp socket.



- Push the lamp carefully into place by alternating the pressure on the pins until contacting the end stop.

## Mounting of the Glass Safety Dome

---

### CAUTION

The flash tube may get damaged



The flash tube may get damaged during the exchange of the safety glass dome.

- Do not touch flash tube with the safety glass dome.
- 



Springs holding the glass safety dome



- Tilt the safety dome slightly and insert it into one of the three springs.
- Then use gentle pressure to insert the safety dome first into the second spring.
- And then into the third spring until it locks into place.

## Mounting a Reflector

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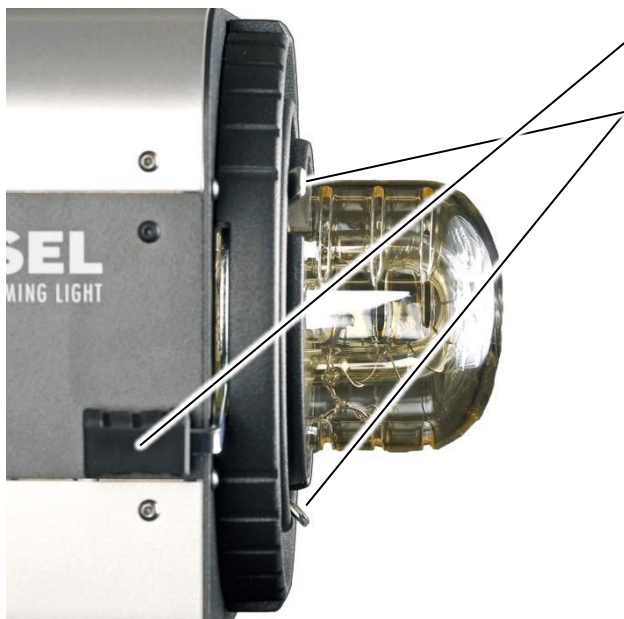
### CAUTION

### Glass safety dome may get damaged



When mounting a reflector the glass safety dome can be damaged.

- Do not touch the glass safety dome with the reflector.
  - While mounting a reflector place the flash unit on a stand.
  - Place the reflector evenly on the flash unit. Make sure that all three holding claws are inside the reflector.
  - When mounting a reflector hold it with one hand.
- 



Lever of the reflector holder

Fingers

- Press the locking mechanism of the reflector holder against the spring tension until reaching the end stop.
- Put the reflector onto the unit and make sure that the 3 fingers are inside the reflector.



- Hold the reflector with one hand while carefully returning the locking mechanism of the reflector into its standard position with the help of the spring tension.
- Check the correct mounting of the reflector.

## Connect the Mains Cord and Switch On



Mains cord

Power switch

- Plug the mains cord into the mains adapter socket of the flash unit.
- Plug the mains cord into the mains supply socket
- Turn the unit on by pressing the power switch.



## Test the Modeling Light

### WARNING

**Danger of eye and skin injuries due to optical radiation**



An intensive optical radiation develops during the flash process which can harm unprotected eyes or skin.

- Do not flash into the face from short distances.



Indicator for **FULL** mode

Key **FULL**

Indicator for **PROP** mode

Key **PROP**

If one of both indicators is on, then the modeling light is turned on.

If none of both indicators is on, press the key **FULL**. The indicator above the button turns on and the modeling light is turned to maximum brightness.

If none of both indicators (**FULL** or **PROP**) is on, please check the halogen lamp of the modeling light for defects.

# Replacing Fuses of Modeling Light

---

## DANGER

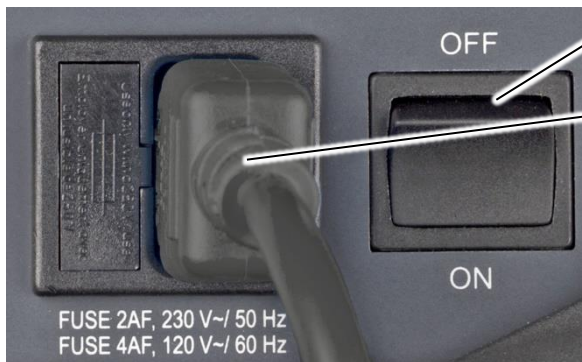
## Danger of electric shock



Danger of electric shock exists during installation and removal of system components.

- Switch off unit via the power switch.
  - Disconnect the unit from the mains voltage.
  - Wait 15 minutes for the discharge of the capacitors.
- 

## Switch Off and Unplug the Mains Cord



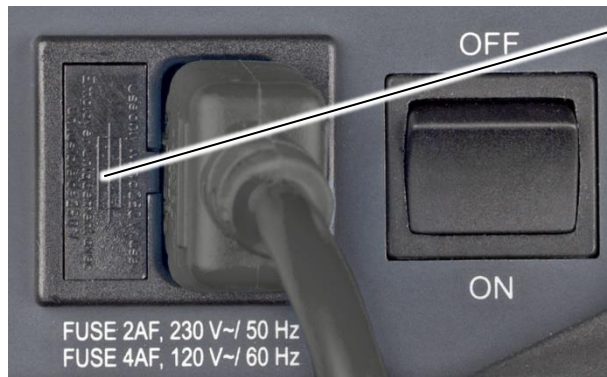
Power switch

Mains cord

- Turn the unit off by pressing the power switch.
- Unplug the mains cord from the mains supply socket.
- Unplug the mains cord from the mains adapter socket of the compact flash unit.

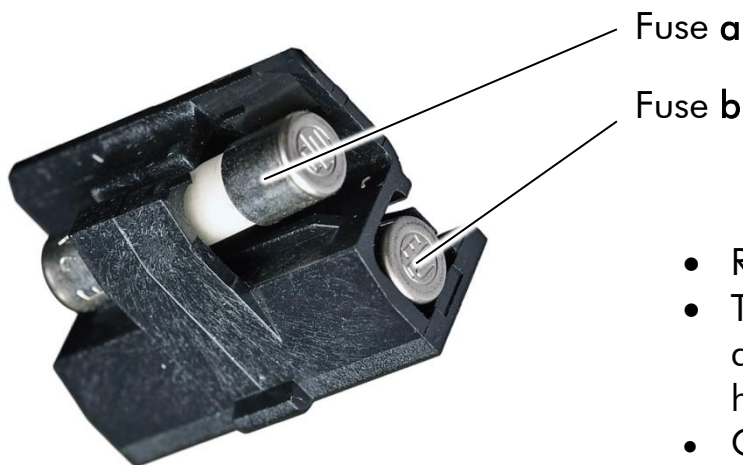


## Exchange of Fuses



Safety drawer

- Open the safety drawer with a small screwdriver and pull it out.
- Inside the drawer are two fuses.



- Remove the defective fuse **a**.
- Take out the spare fuse **b** and insert it into the rear holder.
- Carefully push the drawer back into the housing until it locks into place.

## Connect the Mains Cord and Switch On



Mains cord

Power switch

- Plug the mains cord into the mains adapter socket of the flash unit.
- Plug the mains cord into the mains supply socket
- Turn the unit on by pressing the power switch.

## Preparation for Storage or Transport

---

### CAUTION

#### Risk of burns from reflector and flash unit



Heat which may cause burns develops at the head during the flash process.

- Before removing the reflector allow reflector and flash unit to cool off.
- 

## Switch Off and Unplug the Mains Cord



Power switch

Mains cord

- Turn the unit off by pressing the power switch.
- Unplug the mains cord from the mains supply socket.
- Unplug the mains cord from the mains adapter socket of the compact flash unit.

## Removing a Reflector

### CAUTION

### Risk of burns from reflector and flash unit

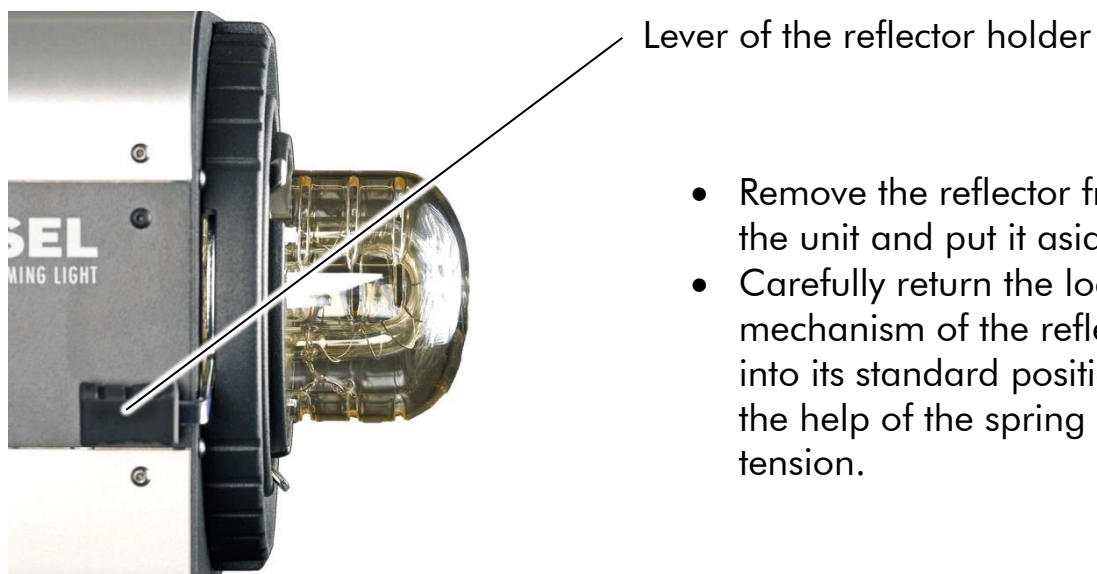


Heat which may cause burns develops at the head during the flash process.

- Before removing the reflector allow reflector and flash unit to cool off.

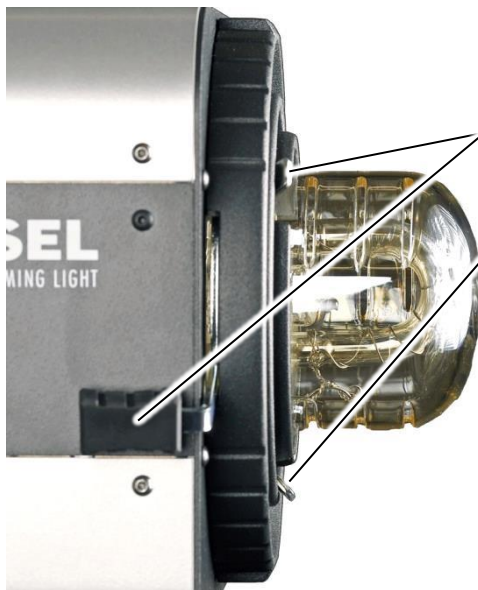


- Hold the reflector with one hand.
- With the other hand, press the locking mechanism of the reflector holder against the spring tension until reaching the end stop.



- Remove the reflector from the unit and put it aside.
- Carefully return the locking mechanism of the reflector into its standard position with the help of the spring tension.

## Mount the Transport Cap



Lever for reflector holder

Fingers

- Press the locking mechanism of the reflector holder against the spring tension until reaching the end stop.
- Put the transport cap onto the unit and make sure that the 3 fingers are inside the holes of the transport cap.



- Hold the transport cap with one hand while carefully returning the locking mechanism of the reflector into its standard position with the help of the spring tension.
- Check the secure mounting of the transport cap.

## Cleaning

---

### DANGER

#### Danger of electric shock



Danger of electric shock exists during installation and removal of system components.

- Switch off unit via the power switch.
  - Disconnect the unit from the mains voltage.
  - Wait 15 minutes for the discharge of the capacitors.
- 

### CAUTION

#### Risk of burns from reflector and flash unit



Heat which may cause burns develops at the head during the flash process.

- Before removing the reflector allow reflector and flash unit to cool off.
- 

The flash unit needs little maintenance by the user. The outside of the equipment must be cleaned periodically of dust and dirt to ensure electric safety.

## Maintenance Plan

Clean the system regularly as described in the section 'Cleaning'. Please lubricate the locking bolt thread every 1-2 years.

## Periodic Safety Checks

The national health and safety at work regulations - BetrSichV and DGUV Regulation 3 (formally known as BGV A3) – mandate periodic checks and maintenance of electrical systems and devices. Generators and accessories must be checked regularly for operational safety. A yearly check of devices serves to ensure user safety and retains system value.

The mentioned regulations apply to Germany. If you live outside Germany, please observe your local regulations.

## Error Codes



In case of an error, an error code is shown in display. In this case proceed as follows:

- Switch off the unit.
- Wait a few seconds.
- Switch the unit on again.

If the error code persists, check if the problem can be remedied according to the following list or contact customer service and state the error code, see paragraph „Customer service points“.



## Error „No Flash“



The flash trigger signal was given but the flash unit did not give off a flash. Possible reasons: The flash tube or the flash unit is defective.

## Error „No Load“



Error during charging. The nominal voltage did not reach the storage condensers within 5 seconds. The process was cancelled.



## Updating Software

If necessary, the compact flash unit's software can be updated via the USB interface.

Contact your customer service center.

## Customer Service

Keep the original packing material in case shipment becomes necessary. It provides maximum protection during transport.

If shipment to one of our customer services becomes necessary, send the equipment to a local authorized Hensel service partner for repairs and include a description of the problem:

A list of Hensel service partners is available at [www.hensel.de](http://www.hensel.de)

## Disposal

The packing material must be separated and recycled. At the end of its life cycle, this product may not be discarded in regular household waste but must be turned in at a recycling station for electrical and electronic devices according to WEEE regulation and ElektroG 20/10/15. You contribute to environmental safety by recycling material and devices.



The mentioned regulations apply to Germany. If you live outside Germany, please observe your local regulations.



## Accessories

### Glass safety dome

Description	Code no.
Glass safety dome, color-corrected	9454661

### Flash tubes

Description	Code no.
Flash tube, single coated, plug-in style	9450420

### Halogen lamp for modeling light

Description	Code no.
300 W / 230 V	128
300 W / 115 V	1280

### Fuses

Description	Code no.
Safety fuses 4 A F	9412400
Safety fuses 2 A F	9412100

### Radio trigger

Description	Code no.
Strobe Wizard Plus transmitter	3950
Freemask transmitter	3955

### Reflectors and softboxes

All reflectors and softboxes with small connector diameter (10 cm) for the EH unit series.

### Additional accessories

Description	Code no.
Safety rope	7690

Additional information about accessories can be found on the Internet page: [www.hensel.de](http://www.hensel.de)

## Contact Information

In case of questions concerning the shipment for repair reasons, for orders, or for questions about the equipment please contact us at:

Internet: [www.hensel.de](http://www.hensel.de)

E-mail: [info@hensel.de](mailto:info@hensel.de)

Telephone: +49 (0)931/27881-0

Fax: +49 (0)931/27881-50

Mail: HENSEL-VISIT GmbH & Co. KG  
Robert-Bunsen-Str. 3  
D-97076 Würzburg

## Warranty

For new VISIT or HENSEL equipment, we grant end-consumers a warranty period of 24 months from the date of invoice and 12 months for distributor products. Flash tubes, lamps, safety caps for glass tubes, rechargeable batteries, batteries, cables and plugs are not included in the warranty (unless the fault verifiably existed already at the time of delivery).

The warranty adjustment applies only if the equipment is used as intended and according to the information in the instruction manual.

In case of unauthorized modifications or unauthorized repairs, the warranty claim expires.

The sales receipt or the delivery slip is proof of warranty. For equipment which was purchased abroad, the warranty that is valid in the respective country applies.

## Limits of Liability

We are not liable for bodily harm or property damage incurred due to improper use and resulting from using the equipment contrary to the information in the instruction manual. We are also not liable for consequential damage (loss of compensation etc.) which may be caused by a defect of our equipment.

## Declaration of EU conformity

HENSEL-VISIT GmbH & Co. KG declares herewith that the device Cito 500 conforms to the basic requirements and further regulations of guidelines 2014/35/EU and 2014/30/EU.

A copy of the declaration of conformity is available upon request at [info@hensel.de](mailto:info@hensel.de) or at HENSEL-VISIT GmbH & Co. KG, P.O. Box 6628, 97016 Würzburg, Germany





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