












Netzspannung / supply voltage	 AC 100 – 240 V, 0.6 A, 50 – 60 Hz
Sicherung / fuse	 PTC 2 A
Netzteil / power supply unit	 DC 12V, 2000mA
Akku / battery	 Li-Mn, 3.6V, 3450mAh
Länge USB-Ladekabel / USB- cable length	 ca. 120cm
Länge Verbindungskabel / connecting cable length	 ca. 150cm
Abmaße Handeinheit / dimensions of hand-piece	 190,5mm x 53,5mm x 48,1mm, 320g
Abmaße Ladestation / dimensions of charger	 137mm x 151mm, 700g
Gesamtgewicht / total weight	 1100g
Lagerbedingungen / terms of storage	 -10 – +40 °C 5 – 95 % humidity
Betriebsbedingungen / operating conditions	 +5 – +30 °C 10 – 90 % humidity

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Die Abbildungen und Beschreibungen in dieser Produktinformation können teilweise Zubehör und Sonderausstattungen enthalten. Veränderungen, die dem technischen Fortschritt dienen, vorbehalten.

Gesicherte Qualität:
Entsprechend den strengen Richtlinien gemäß MDR 2017/745 und dem Medizinproduktegesetz (MPG) entwickelt und gefertigt.

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The images and description of this product information may partially contain accessories and special equipment. We reserve the right to modifications which serve the purpose of technical improvement.

Assured quality:
Developed and produced in compliance with the strict regulations according to MDR 2017/745.

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 **CANFIELD**

Handbuch Manual

Deutsch
English



Luminis

Canfield Scientific GmbH

Otto-Brenner-Straße 203
33604 Bielefeld, Germany

Phone +49 521 329 856 0
Fax +49 521 329 856 40
info.europe@canfieldsci.com
www.canfieldsci.com

Warranty & Service

The warranty time for the LUMINIS magnifying glass is 5 years. The warranty time for the provided batteries is 6 months.

The warranty time starts on the day of delivery by the technical dealer. Warranty services performed result in neither an extension of the warranty time nor in a new warranty time. The warranty time for installed spare parts terminates at the warranty time for the entire unit.

Warranty claims must be advance immediately or within seven days at the latest.

Visual transport damage must be reported to the delivery company and Canfield Scientific GmbH immediately. Transport damage, which cannot be detected visually, must be reported immediately after discovery, but within seven days after delivery at the latest, to the delivery company or Canfield Scientific GmbH in writing.

Coverage of warranty

- Warranty covers the delivered unit with all its parts and is granted in a form that parts which have become defective due to manufacturing and/or material faults will be replaced or repaired without any charges at the discretion of the manufacturer. Alternatively, the Canfield Scientific GmbH reserves the right to replace the defective unit with a follow-up product.
- Replaced parts will become the property of Canfield Scientific GmbH.

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- Canfield Scientific GmbH is entitled to perform technical modifications beyond a repair and a replacement to adapt the unit to the current state of the art. For that, the purchaser will not have to pay additional costs. A legal title for that does not exist.
 - Transport for the dispatch from the purchaser to the service workshop / Canfield Scientific GmbH occur at the purchaser's own risk and costs.

Exclusion of warranty

All following warranty claims are excluded in particular

- if the unit was damaged or destroyed by influence of force majeure or by environmental influences (humidity, electrical shock, dust and the like);
- if the unit was stored or operated under conditions outside the technical specifications;
- if damage occurred by improper handling – in particular by noncompliance with the operating instructions; in this case Canfield Scientific GmbH reserves the right to charge expenses to the purchaser's account for already occurred inspection effort
- if the unit was opened, repaired or modified by non-authorised persons;
- if the unit shows mechanical damage of any kind;
- if the warranty claim has not been reported according to the information above

Supplementary regulations

- Excluded are all claims which result from damages due to deterioration/attrition/aging within intended use
- Also excluded are claims or compensation of for lost profit, direct or subsequent damage
- The warranty only applies to the first purchaser and cannot be transferred
- Warranty claims will only be considered, if the original invoice is presented with the device

Service

If you have any further queries, please initially contact your local dealer. Should there still remain open questions, you might contact Canfield Scientific GmbH directly.

Canfield Scientific GmbH on the net www.canfieldsci.com E-Mail: info.europe@canfieldsci.com	Canfield Scientific GmbH by mail
Canfield Scientific GmbH by phone Phone: +49 521 329 856 0 Fax: +49 521 329 856 40	Canfield Scientific GmbH Otto-Brenner-Straße 203 33604 Bielefeld Germany

Important information



Please read this manual carefully BEFORE commissioning your LUMINIS magnifying glass.



Combine the LUMINIS magnifying glass components exclusively with original accessories. In order to ensure a safe operation, installation, maintenance and change of system's configuration may only be executed by trained personnel.



The device is not suitable for use in radiology or intensive care. Please do not use this product in sterile working areas without additional security precautions.

LUMINIS magnifying glass corresponds to the regulations to EN 60601. The product is right within the demands of the directive MDR 2017/745. Every device which is connected in LUMINIS must correspond to the norm EN 60601-1-1.



Start-up operations

First, insert the battery for the device as described under “service”, if it is not already in the device.

Charging of the device via USB-charging cable (option A or B)

- A. Please connect the handheld-device via the provided USB-charging cable to the USB-port of your computer.
- B. Please connect the handheld-device via the provided USB-charging cable and the outlet-USB-adaptor to an outlet.

Charging using the LUMINIS charging station

A

1. Connect the power supply with an outlet and link it with the external cable with the LUMINIS charging station.
2. Insert the LUMINIS to the charging station with the back of the magnifier facing the cable.

B

Important Note



Avoid direct insolation by all means as the lens will focus sun rays and might ignite objects nearby!



Instructions for use

Select front attachment according to the planned examination and place it on the hand unit. A magnetic click-on lock mechanism secures attachments to the hand-piece.

Use suitable contact fluids or immersing oil for the examination. Spray the liquid on the affected skin area of the patient first, then put the hand dermatoscope with the attachment on the skin region which is to be examined.



Prior to an application, clarify with the patient possible susceptibilities to contact or immersion liquid.



Never spray directly onto the device or attachment!

Put the hand dermatoscope on the skin and (if necessary) rotate the objective lens adapter until the optimum focus for the examiner is obtained.



Clean the attachment after use.

Feature Overview

1

Start-up/shut-off of the device



Push this button to turn on the device. The device always starts in xPol at 50% brightness. Press the button again to switch to daylight illumination. After ten minutes of inactivity, the light switches off. Standby mode is activated. Press any button to exit standby mode. After another minute the standby mode is ended and the device switches off. Press On/Off button for one second to turn off the device completely.

2

Toggle between raked daylight illumination



Press this button to enter raked Daylight mode. The following functions are activated when the button is pressed repeatedly:

- 1) raked lighting from the right side
- 2) raked lighting from the left side

3

Control of illumination intensity



These buttons are used for brightness control. If the device is in xPol mode or Daylight mode, the brightness can be gradually increased or decreased by pressing the upper button or the lower button. If the raked lighting is active, no brightness control is possible.

4

Status indication via LED

Status-LED	Status of device
	Device in operation
Permanently green	Daylight illumination is active, brightness control via button possible
Permanently orange	xPol illumination active, brightness control via button adjustable
Red flashing	Remaining capacity of the battery less than 30%
Orange flashing	Standby activated
	Device in charging process
Green flashing	Charging in progress
Permanently green	Charging completed

Troubleshooting

Error	Possible cause	Correction
Device is not charged	Plug of power supply unit is not inserted	Please insert the plug/check connections
	Battery applied wrong	Check quantity and correct orientation of the battery
	Hand unit is not positioned correctly	Correction of positioning of the hand unit in the charger
	Soiled charging contacts	Disconnect charger from power and clean with air or soft brush
Image blurred	Focus was manipulated	Adjust the desired focus with the objective
	Soiled lens / attachment	Clean with a suitable cloth

Error	Possible cause	Correction
Rechargeable battery pack empty after short time of use	Life time cycle of rechargeable battery pack reached	Send the device in for inspection or replace battery with new original spare part battery
No function of the hand unit	Short-circuit	Please send the device in for inspection

If the problem remains, please contact the department listed in the 'Service' section.

Maintenance



Cleaning

The surface of the LUMINIS magnifying glass may be cleaned and disinfected with isopropyl alcohol (70% Vol.) applied to a cleaning cloth. The optics must never come into contact with alcohol or other solvents, but should be carefully cleaned with a dry and suited soft cloth.



The device must never be sprayed on with fluids of any kind. Sterilisation through autoclaving or other similar high-temperature processes or exposure to E- or gamma-rays are excluded.



Battery replacement

Please insert the battery to the device as indicated in the picture.



Please take care to insert the battery correctly. Never use sharp objects or tools. A damaged battery represents a safety hazard and must not be used. Use only original LUMINIS accessories.

Advice for disposal



Do not dispose this device with unsorted household waste. Improper disposal may be harmful to the environment and the human health. Please contact the manufacturer for a proper disposal.

Important safety advice



The device is dedicated for the use by healthcare professionals only. An exposure of the eye during operation must be avoided!

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