



## The illuminated magnifier Lichen candelaris®

When mapping the epiphytic lichens, the idea of a light-outfitted magnifying glass was born. The combination of lichenology and engineer enabled the development of a prototype, which was further developed and is now produced in serie.

Lichen candelaris® is used by biologists and Research Institutes around the world and has proved its loyalty under the most extreme outdoor conditions.

Erich Zimmermann



## Product description / Technical data

- Optics / Enlargement: x10, Ø = 19 mm - x14, Ø = 19 mm - x20 (IWAMOTO-Lens), Ø = 16 mm
- Optics: Dust and waterproof, shock and impact resistant by embedding in silicone
- Illumination: two high intensity diffused LEDs, 60° offset (brightness ≈ 5 cd). Color temperature: neutral white ≈ 5500 ° K, (optional cold white)
- Highly efficient electronics for constant light intensity over the entire battery life, in the temperature range from -20 to + 60 ° C
- Operating time: > 5000 light pulses of 10 sec. duration, low power consumption and very long lifetime
- Power supply: 3pcs. 3V Lithium Batteries (CR 2023). Battery indicator lights up before need of battery change (remaining cap. 500 pulses)
- Ergonomic, hard anodized, scratch-resistant aluminum housing, splash-proof (IP65): L = 70mm, W = 26mm, H = 25mm, weight: 76 gr.
- Robust and durable design: Designed and proven for extreme conditions (Antarctic, Rainforest). Countersunk tactile switch with guaranteed 10 million switching cycles at -20 to + 60 ° C
- Contains of the delivery: Magnifying glass, 2 pcs. Lanyards, 3 pcs. CR2032 Li-Batteries for Your first replacement, screw driver, user notes
- Labeling: standard from stock, individual labeling (name or phone number or email, max. 26 symbols (delivery time 2-8 weeks)
- Swiss Made and 4 years warranty, full service: all parts are exchangeable during a repair
- Sustainability & Environment: Housing produced by a company with high social responsibility, ecological packaging, batteries recyclable
- References: Botanists, Research Institutes and Universities in Switzerland, Europe, North and South America, Canada



Labeling

Lichen candelaris x 20 engraved with name - Lichen candelaris x 14 standard



All models: mm-scale on the backside



Handmade leather cover with decoration / lettering

## Technical Information

**Enlargement & depth of focus** - Due to optical principles, the field of view and the depth of focus decrease with rising magnification. For the application in Botany / Bryology / Geology / Lichenology / Mycology x10 or x14 are optimal. To recognize fine structures, the LCx20 (IWAMOTO LENS) is recommended.

	Optic diameter	Field of view diameter	Distance optics - object	Remarks
x 10	19 mm	≈ 13 mm	ca. 20 mm	completely water and dust-proof glued
x 14	19 mm	≈ 10 mm	ca. 15 mm	Space between the lenses: air, 99% waterproof
x 20 (IWAMOTO LENS)	16 mm	≈ 7 mm	<15 mm	Space between the lenses: air, 99% waterproof

**Light temperature & color reproduction** - The color temperature (unit of measurement: Kelvin ° K) is a measure of the color impression of a light source. In the case of the illuminated magnifying glass, the color reproduction depends on natural ambient light and / or on the emitted color spectrum of the LED light source. Lichen candelaris® is equipped with neutral white light (≈ 5500 ° K), which results in a natural color rendering.

## Source of supply - delivery time – prices

- Source:** Erich Zimmermann, Scheunenberg 46, 3251 Wengi – Schweiz - Mobil: +41 79 3000 445. Email: [Lichen.candelaris@bluewin.ch](mailto:Lichen.candelaris@bluewin.ch)  
**Leather protective cover:** brown or black, without decoration CHF 65.-, with decoration CHF 75.- + postage - order at Jacky Orler - [info@holzart.li](mailto:info@holzart.li)
- Delivery time:** Standard labeling from stock. With individual inscription: approx. 2 ... 6 weeks (same price)
- Prices:** Schweiz: 295.- CHF (LC x20; 320.- CHF) + 10.- CHF Packaging / Postage / Insurance - discount from 5+ pcs.  
 EU: 215.- CHF (LCx20 + 20EUR) + 25.- CHF Packaging / Postage / Insurance / incl. Track & Trace Information - discount from 5+ pcs