



## Lichen candelaris® the illuminated magnifier

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 series.

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

- **Optics / Enlargement:** LCx10 Ø = 19 mm // LCx20 (IWAMOTO-Lens) Ø = 16 mm
- **Optics:** Dust and waterproof, shock and impact resistance by embedding in silicone
- **Illumination:** two high intensity diffused LEDs, 60° offset (brightness ≈ 5 cd). Color temperature: neutral white ≈ 5500 °K
- 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 > 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, incl. 3 pcs. CR2032 Li-Batteries, screwdriver, user notes
- **Labeling:** standard from stock, individual labeling (name or phone number or email, max. 25-30 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, batteries recyclable
- **References:** Universities Research Institutes, and Botanists in Switzerland, Europe, North and South America, Canada



Labeling options (Example)  
Left engraved with name - Right standard labeling



All models: mm-scale on the  
backside



Leather case type 1 or 2 both 70 CHF/€/pcs  
Order directly to: [mgabathuler@protonmail.com](mailto:mgabathuler@protonmail.com)



### TECHNICAL INFORMATION

**Enlargement & depth of focus** - Due to optical principles, the field of view and the depth of focus decrease with rising magnification. For 90% of application in Botany / Bryology / Geology / Lichenology / Mycology x10 are optimal. To recognize fine structures, the LCx20 (IWAMOTO LENS) is recommended.

Enlargement	Optic diameter	Field of view diameter	Distance optic - object	Remarks
x 10	19 mm	≈ 13 mm	ca. 20 mm	100% waterproof and dust-proof glued
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.

### ORDERING INFORMATION – DELIVERY TIME – PRICES

**Your contact:** Erich Zimmermann, Scheunenberg 46, 3251 Wengi – Schweiz - Mobil: +41 79 3000 445. Email: [Lichen.candelaris@bluewin.ch](mailto:Lichen.candelaris@bluewin.ch)

**Delivery time:** Standard labeling from stock. With individual inscription: approx. 2 ... 6 weeks (same price).

**Prices:** **Outside Switzerland:** LCx10 = 330.-CHF, LCx20 = 400.-CHF, +30.-CHF Packaging / Shipping / Insurance – **without VAT**

**EURO-Land:** LCx10 = 330.- €, LCx20 = 400.- € +30.- € Packaging/Shipping/Insurance/ incl. Track & Trace – **without VAT**