

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

Erich Zimmermann



# Lichen candellaris®

The professional rugged illuminated magnifier for Botanist and Mycologist

for successful working in nature

### 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
- 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
- **Option A:** Raised button for easier operation with gloves - **Option B:** increased brightness (3 times compared to standard)
- **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. 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, ecological packaging, batteries recyclable
- References: Botanists, Research Institutes and Universities in Switzerland, Europe, North and South America, Canada



Labeling options  
LC x 20 engraved with name - LC x 14 standard labeling

All models: mm-scale on the backside

Leather case type 1 & type 2: both 65 CHF/€/pcs  
Leather case with decoration please contact:  
[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 the application in Botany / Bryology / Geology / Lichenology / Mycology x10 or x14 are optimal. To recognize fine structures, the LCx20 (IWAMOTO LENS) is recommended.

Enlargement	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 candellaris® 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.candellaris@bluewin.ch](mailto:Lichen.candellaris@bluewin.ch)

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

**Prices:** **Outside Switzerland:** LCx10/LCx14 = 290.-CHF, LCx20 = 330.-CHF, +10.-CHF Packaging / Shipping / Insurance – without VAT  
**EURO-Land:** LCx10/LCx14 = 250.- €, LCx20 = 290.- € +25.- € Packaging/Shipping/Insurance/ incl. Track & Trace – without VAT