EdgeON

Goniometer - LASER PRO USB

Model GMPRUSEN 2.0

Operating Instructions

Product page, documentation and video manuals: manualsharpening.com

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1. Package Contents

- 1× Goniometer EdgeON - LASER PRO USB
- 1× USB-C charging cable
- 1× Operating Instructions

Important: A USB power adapter (e.g. a wall adapter) is not included - use a standard 5 V USB power adapter.
Keep packaging material (film, bags) out of the reach of children - risk of suffocation.
The type designation and serial number are shown on the label on the device. Intended use: this device is designed exclusively for measuring the sharpening angle of knife and tool blades. It is not intended for industrial safety applications or medical purposes. Keep these instructions.

2. Technical Specifications

Measurement range	up to 74° (total angle)
Accuracy	±0.5° (laser)
Power supply	built-in Li-ion battery, charged via USB
Laser	650 nm, output up to 1 mW, Class 2 (EN 60825-1)
Operating temperature	0 to 40 °C
Blade height	max. 53 mm

3. Laser Safety Instructions

CAUTION - LASER RADIATION - DO NOT STARE INTO BEAM - CLASS 2 LASER PRODUCT

- Eye protection for Class 2 lasers relies on the natural blink reflex - do not intentionally expose yourself to the beam or force your eyes open.
- Do not aim the laser at eyes, people, or reflective surfaces.
- Observing the light spots on the graduated screen is safe and is the intended use - however, never look directly into the laser aperture.
- Children should not use the device without supervision.
- Do not open, modify, or attempt to repair the laser module.

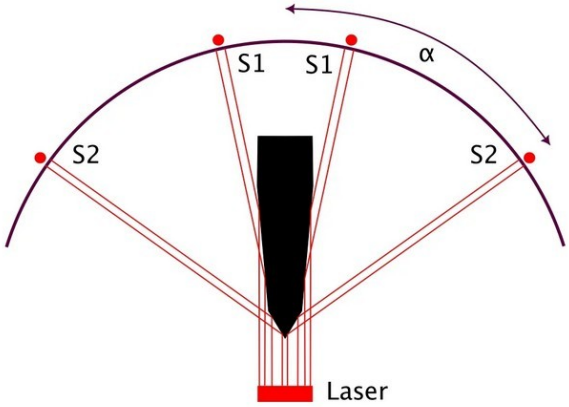
4. Charging

- Charge using the supplied USB-C cable and a standard 5 V USB adapter (adapter not included).
- Do not use high-current fast-charging adapters.
- Do not leave the device charging unattended; charge it on a non-flammable surface.
- If the device becomes hot, deforms, or emits an unusual smell, disconnect it from charging immediately and stop using it.
- Protect the device from water, moisture, and direct sunlight.

5. Battery

- The device contains a built-in, non-removable lithium-ion (Li-ion) battery. For design and safety reasons, it is not intended to be replaced by the user.
- Do not puncture or deform the battery, and do not expose it to fire - risk of fire or explosion.
- At the end of its service life, have the battery safely removed by the manufacturer or at an electrical waste collection point.

How It Works



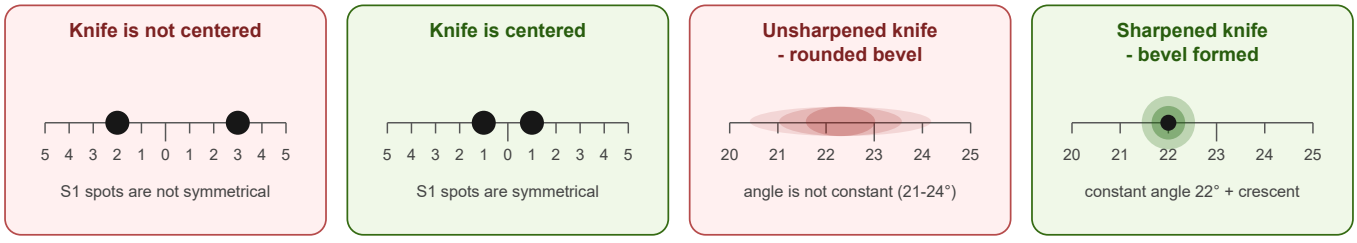
S1 = reflection from the primary grind face (centering); S2 = reflection from the bevel (angle α).

6. Operation

- Turn on the device using the button on the bottom of the round body, then rotate it so that the logo/text faces you and is upright.
- Attach the knife, edge down, to the two magnets in the center of the device - the magnets hold it securely even in a vertical position.
- The laser illuminates the edge from below and creates four light spots on the graduated screen - two to the left and two to the right of the blade.
- The nearer spots (S1) are reflections from the primary grind face and are used to center the blade - adjust the knife until both S1 spots are symmetrical.
- The farther spots (S2) are reflections from the bevel; their position on the scale indicates the sharpening angle α.
- A broad smear spanning several degrees instead of a distinct spot means that the knife is not sharpened - the bevel angle is inconsistent and the bevel is rounded. As sharpening progresses, the smear narrows to a single spot.
- Always read the value at the distinct spot on the scale - it is always present. A weaker arc-shaped glow (a crescent) may appear beside it; this is normal and does not determine the final reading.
- For blades taller than 53 mm, an interchangeable 90° scale can be used. It is a separate accessory and is not included.

Correct and Incorrect Conditions

Step 1 - Centering (S1) | **Step 2 - Reading the angle (S2)**



Red border = incorrect; green border = correct

7. Maintenance

- Clean only with a dry, soft cloth. Store in a dry place at 0-40 °C. Do not immerse in water.

8. Disposal

- The product contains electronic components and a rechargeable battery - do not dispose of it with ordinary household waste. Take it to a waste electrical and electronic equipment (WEEE) collection point; have the battery removed by a qualified professional.

9. Declaration of Conformity

This product complies with the applicable EU legislation (EMC, RoHS, GPSR, EN 60825-1). The EU Declaration of Conformity is available from the manufacturer upon request.

10. Manufacturer and Service

Sharplab s.r.o.

Service / warranty claims: info@manualsharpening.com