

KITOTEC

1. Intended Use

The magnifying glasses, measuring magnifiers, and optical inspection devices manufactured by Kitotec GmbH are precision instruments designed for optical magnification, visual inspection, material inspection, and the measurement of technical structures and surfaces.

The products are intended exclusively for industrial, technical, scientific, laboratory-related, or craft applications.

The devices are used for:

- optical inspection,
- visual inspection,
- supporting measurement,
- quality control,
- material analysis,
- and the visual assessment of small structures.

The products are not:

- safety-critical measuring systems,
- measuring instruments subject to calibration,
- medical diagnostic devices,
- automated test systems,
- or control systems subject to approval.

Measurement values and visual inspections must always be checked by the user for plausibility and, if necessary, verified using suitable reference measuring equipment. The responsibility for the suitability of the product for the respective application lies exclusively with the user.

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DIN EN ISO 9001
REG.-NR. 01.01239/44



2. General Safety Instructions

Before first use, read this operating manual in its entirety and keep it for future reference. The products may only be used by trained and qualified personnel. Children may only use magnifiers and measuring magnifiers under supervision. Damaged products must not be used.

In case of visible damage to:

- lens,
- housing,
- lighting,
- scales,
- mounts,
- or mechanical components

, the product must be taken out of service immediately. Unauthorized alterations or technical modifications are not permitted and will result in the loss of all warranty and liability claims.

3. Optical hazards and eye protection

Never:

- look directly into the sun,
- into laser beams,
- UV light sources,
- high-power LEDs,
- or other intense light sources

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The magnifying effect can:

- lead to serious eye injuries,
- permanent retinal damage,
- glare,
- or eye strain

. Optical reflections on metallic or shiny surfaces can also cause glare. During prolonged use, take regular breaks from looking at the screen.

4. Fire and burn hazard

Magnifying glasses act like magnifying lenses. The product must never be left:

- be left unattended in sunlight,
- near a window,
- under strong light sources,
- or on flammable materials

. There is a fire hazard due to the concentration of light. Metal housings can become very hot when exposed to sunlight and cause burns.

When not in use, the product must be:

- protected from light,
- dry,
- dust-free,
- and, if possible, in protective packaging.

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Zertifiziertes Managementsystem
DIN EN ISO 14001
Zertifizierungs-Nr. 14001



Zertifiziertes Managementsystem
DIN EN ISO 19000
Zertifizierungs-Nr. 19000



Zertifiziertes Managementsystem
SA 8000
Zertifizierungs-Nr. SA 8000

5. Risks from measurement errors

Dirty, damaged, or incorrectly focused optics can lead to misinterpretations and measurement errors.

Measurement scales should be checked regularly:

- for legibility,
- damage,
- wear,
- and correct positioning.

Calibrated scales must be inspected at regular intervals. DAkkS calibrations apply exclusively to the documented condition at the time of calibration. Mechanical stress, temperature changes, contamination, or improper use can affect measurement accuracy. Suitability for tolerance-critical applications must always be validated by the user.

6. Mechanical risks

Impacts, blows, drops, or excessive mechanical stress can:

- damage the optics,
- cause measurement deviations,
- cause glass breakage,
- or cause injuries from shards.

The product must not be used:

- if components are loose,
- if there are cracks,
- or if the function appears to be impaired.

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7. Cleaning and Care

For cleaning, use only:

- soft microfiber cloths,
- optically suitable cleaning wipes,
- and suitable cleaning agents for precision optics.

Aggressive chemicals, solvents, or abrasive materials can:

- destroy coatings,
- damage plastics,
- or permanently impair optical quality.
- Never touch lenses with bare fingers

8. Notes for illuminated models

For models with electric lighting, only the specified voltages and power sources may be used. Electrical components must not be opened or modified. Defective lighting units may only be replaced by qualified technical personnel.

The product must not be used:

- in a damp environment,
- under conditions of condensation,
- or used in areas at risk of explosion.

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9. Disclaimer

Kitotec GmbH is not liable for:

- Damage caused by improper use,
- misapplication,
- improper storage,
- lack of maintenance,
- unauthorized modifications,
- use of damaged products,
- incorrect interpretation of measurement results,
- indirect damages,
- consequential damages,
- production downtime,
- or damage resulting from unsuitable operating conditions.

The user is obligated to independently verify the suitability of the product for the respective application prior to each use.

Compliance with national safety, labor, and accident prevention regulations is the sole responsibility of the user.

Meckenheim, May 24, 2026

Peter Müller
Managing Director

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