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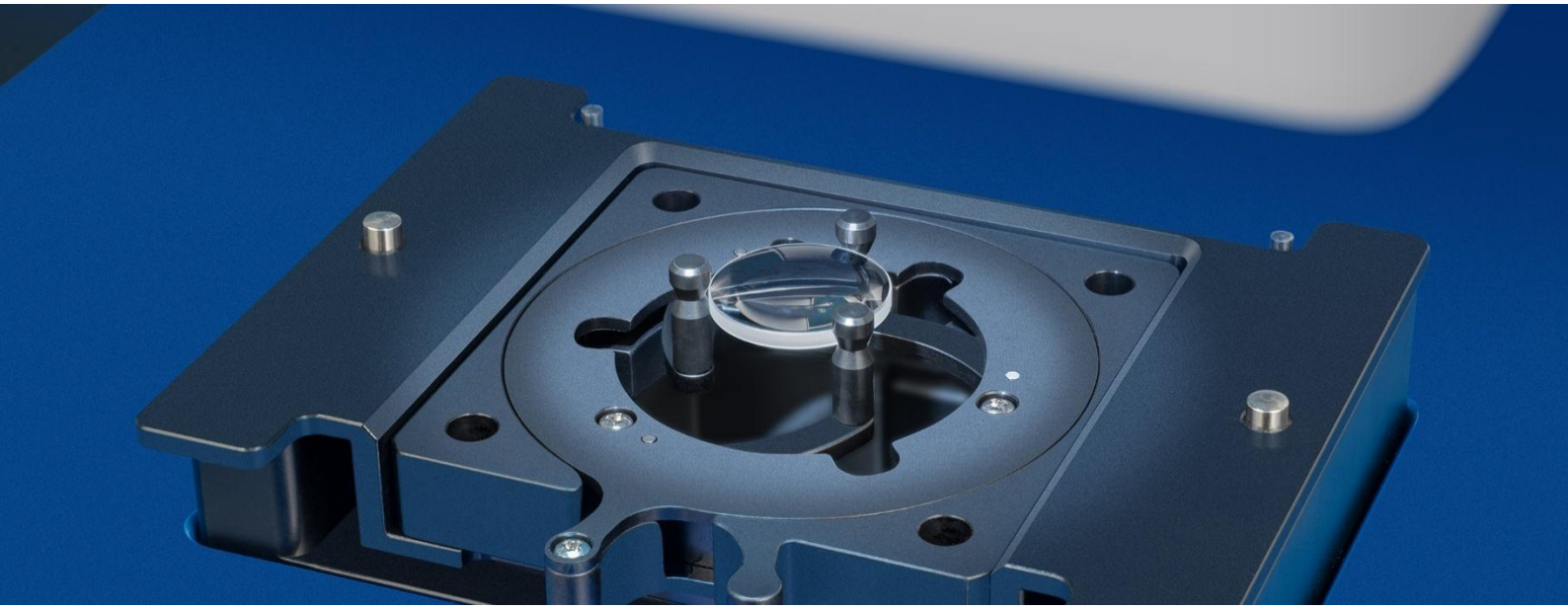

SurfInspect

Automated quality assessment of scratch & dig

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SurfInspect

SurfInspect is an automated inspection system for the objective surface quality evaluation of flat optics and lenses in compliance with the international standard ISO 10110-7. With its attractive price-performance ratio, advanced technical specifications, and automated documentation, SurfInspect addresses the central challenges in optical manufacturing:

- Time-saving automated inspection processes
- Objective and precise automated evaluations
- Efficient and quick documentation

SurfInspect is designed for manufacturers and processors of optical components and assemblies. It is the ideal cost-effective solution for companies transitioning from manual visual inspection to automated, ISO 10110-7 compliant quality control. Our goal is to enhance the reliability of incoming, in-process, and final inspections.

Key features

- **Objectivity at the press of a button:** Consistently detects scratches and digs using classical or AI-supported analysis, minimizing human error.
- **Precision and efficiency through multi-shot measurement sequence:** Captures entire optics in a single image with a large field of view and high depth of focus, reducing process time and costs.
- **Plannable productivity and seamless documentation:** Automatically generates ISO 10110-7-compliant reports, ensuring predictable and seamless integration into production and quality KPIs.
- **High user-friendliness:** Intuitive interface and software-defined procedures reduces training effort.
- **Customized functionality:** Cost-effective solution for objective surface inspection in quality control.

Technical data

	SurfInspect
Norm	ISO 10110-7
Smallest fully certifiable component grade number	5/ N_g x 0.04 for round/square defects; 5/ N_g x 0.16 for long defects (similar to but shorter than scratches); L N_l x 0.025
Smallest ISO 10110-7 grade number for single defects	5/ N_g x 0.01 for round/square defects; 5/ N_g x 0.04 for long defects (similar but shorter than scratches); L N_l x 0.01
Max. inspection area (Field of view)	max. 25.9 mm x 25.9 mm
Shape of sample	Flat / mildly curved
Max. SAG height sample (Depth of focus)	1.2 mm
Size	Tabletop device, fit into flow box 630 mm x 355 mm x 430 mm

93-011-110-EN Version 000

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