



24/7 consistent quality control
Fully automated surface inspection
and evaluation



Efficient processes
Real-time production monitoring
and precise process control



High flexibility
One system for different part sizes,
shapes, and variety



Short cycle times
Adaptable configuration for
maximum throughput



SpecGAGE3D

Fully automated surface inspection for
glossy and transparent components



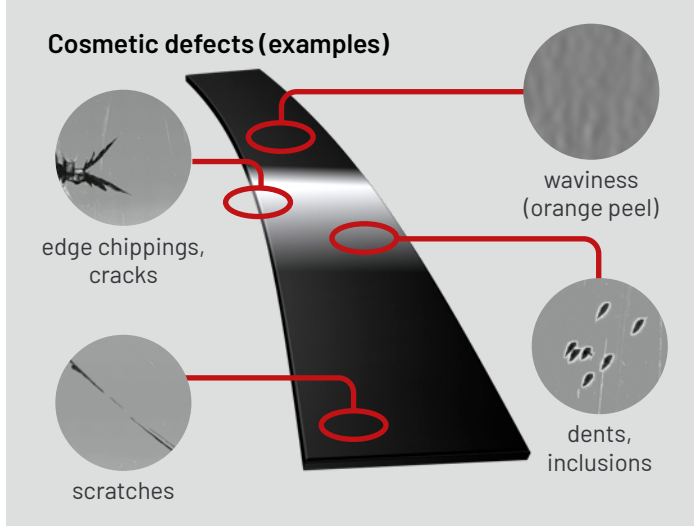
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Fully automated surface inspection for glossy and transparent components

SpecGAGE3D is a proven and reliable solution for consistent quality control. Designed for high precision, it performs two key measurement tasks:

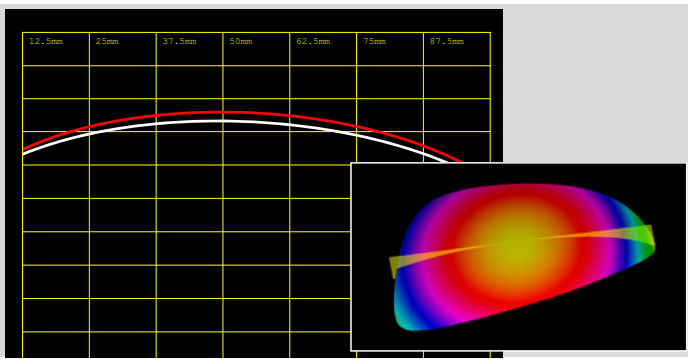
1. Defect detection

SpecGAGE3D automatically identifies cosmetic defects on glossy surfaces, enabling flawless appearance and superior quality.



2. Shape control (CAD comparison)

SpecGAGE3D detects shape deviations, such as distortions of shiny or mirrored parts. It provides geometrical information regarding flatness or radius, ensuring proper functionality and optimal performance.



Application examples

- | | | |
|---------------------|---------------------|-----------------------------------|
| Car exterior | Car interior | Car display |
| ■ Headlights | ■ Trims | ■ Display |
| ■ Mirrors | ■ Buttons, switches | ■ Light guide, optical components |
| ■ B-pillars | ■ Head up displays | ■ Cover glass |
| ■ Glass | | |
| ■ Fuel caps | | |

KEY FEATURES

- Defect detection and shape control in a single measurement
- Series measurement of components in trays
- Flat or curved geometries, optimization for complex geometries possible
- Evaluation channels: Height map, curvature, slope, contrast
- Comprehensive evaluation and analytics tools

TECHNICAL DATA

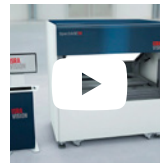
Various hardware setups and software configurations are tailored to the specific measurement needs.

Measuring principle	Phase-measuring deflectometry
Field of view (flat objects)	Up to 1000x600 mm ²
Defect size depending on resolution	Down to 50 µm
Typ. measuring time	3-8 sec
Typ. evaluation time	5-15 sec
Cycle times	Down to 1-2 sec per part

VIDEOS



Fully integrated multi-part inspection: Inspection of 4 B-pillars in parallel



How it works: Discover the measurement principle



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Global contacts

