With its variety of measurement principles, 3D-Shape GmbH covers a broad spectrum of applications, proving to be an ideal partner for your measurement needs.

With the innovative technology of 3D-Shape, three-dimensional images of microscopic to full, metersized objects can be generated. Exacting measurement demands are met with the highest precision.

The sensors developed by 3D-Shape are in place worldwide – in the automotive and electronics industries, medical technology, tool making, optical systems and many more.

User-friendly software facilitates optimal processing and analysis of three-dimensional data.

Customer-specific solutions can be realized upon request. Direct cooperation with end-users enables 3D-Shape to implement emerging needs into measurement solutions in a timely manner.

In cooperation with system integrators, complex systems can also be realized on the production line.

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Innovations for Automated Optical 3D-Quality Control

3D-Sensor KORAD 3D
Measure Down to Nanometer Accuracy from the Experts of White-Light Interferometry
Accelerating your Quality Control

Optimize your ROI – with the technology leader ISRA
www.isravision.com www.3d-shape.com
100%-Quality Control on Production Lines

KORAD 3D

Technology

Long-term experience in research and development is the basis for the success of the KORAD optical measurement system. On its foundation, 3D-Shape GmbH offers a sensor family whose capabilities have been demonstrated under both laboratory and industrial conditions worldwide. Various surfaces in different processing states, diverse materials and complex geometries can be measured contact free and three-dimensionally.

3D-Sensors

KORAD3D was developed for quick and precise control on production lines, with a goal of 100% inspection. The 3D-sensor reaches measurement times of approximately one second, with a measurement uncertainty of less than 1 micrometer in electronic applications like BGAs.

Measurable Parameters

- Topography / flatness
- Waviness / coplanarity
- Step height / parallelism
- Radius / angle
- Contact ratio / roughness

Benefits

- High precision under production conditions
- Reduction of non-productive times
- Minimization of waste – maximization of profit
- Achievement of higher prices for higher quality
- Production process optimization

Integration

- Suitable for integration into production-lines
- Short measuring time for 100% - control
- Stand-alone or fully integrated
- Low space requirements
- DCOM-interface incorporated
- Customer-specific solutions

Features

- Accuracy in the nanometer range
- 100%-quality control on production lines
- High-speed 3D-measurements
- Various surfaces – diverse materials
- Without shading effects
- Contactless 3D-measurement
- > 10 measuring parameters
- Extremely low maintenance costs

Applications

- Seal surfaces
- Electronic components
- Wafer
- Printed circuit boards
- Deep drill holes
- Precision parts
- Tool Inspection
- Precise machine settings
- Transparent layers

Production process optimization