

RTVision.3d

High-quality bead inspection
in every dimension for full flexibility

QUISS

ISRA
VISION

RTVision.3d – Quality inspection in three dimensions

Measuring the width, position and continuity of adhesive applications in automotive production is essential for a high-quality result. With RTVision.3d we bring quality assurance to a new level by additionally measuring the height of the application. This allows to check the volume applied according to your needs.

A new way of quality inspection

Demands increase on various quality factors and on high-quality adhesive bonds are becoming more and more important in the automotive industry. With our RTVision.3d it is now possible to measure not only the parameters of width, position and continuity but also the height of the adhesive application. This helps to draw conclusions on the applied material volume.

The 100% 3D inline solution can be used for monitoring applications in the BIW where we find safety-critical, structural bonds.

But also in battery manufacturing as for example in the cell to cell bonding where defects aren't accepted, the RTVision.3d is the perfect solution for your quality inspection.

Technology benefits

Higher inspection quality thanks to the three dimensional inspection

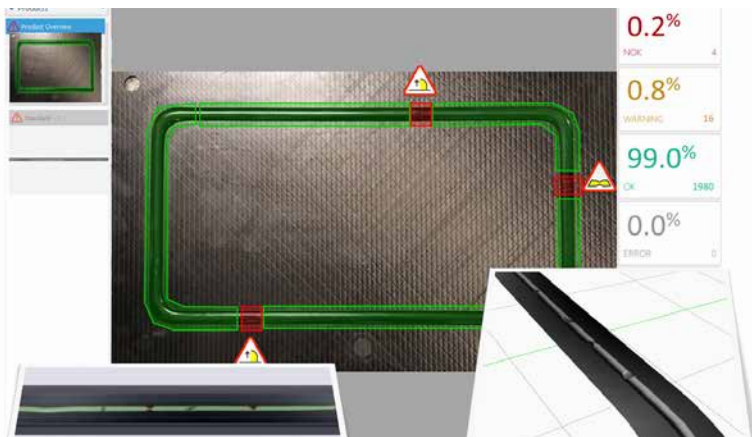
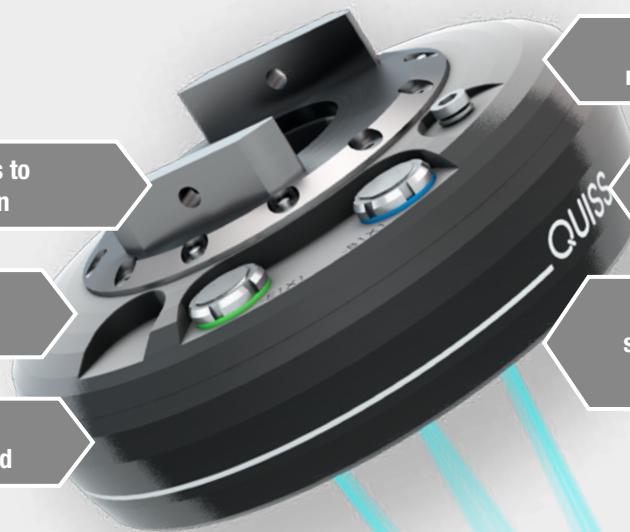
Easy to integrate or upgrade in existing systems

Laser class 2:
only basic security level required

Patented solution:
maximum performance and accuracy

Easy to upgrade from
RTVision.t to RTVision.3d

Optional: predictive scan - using
scandata before and after application
for enhanced quality

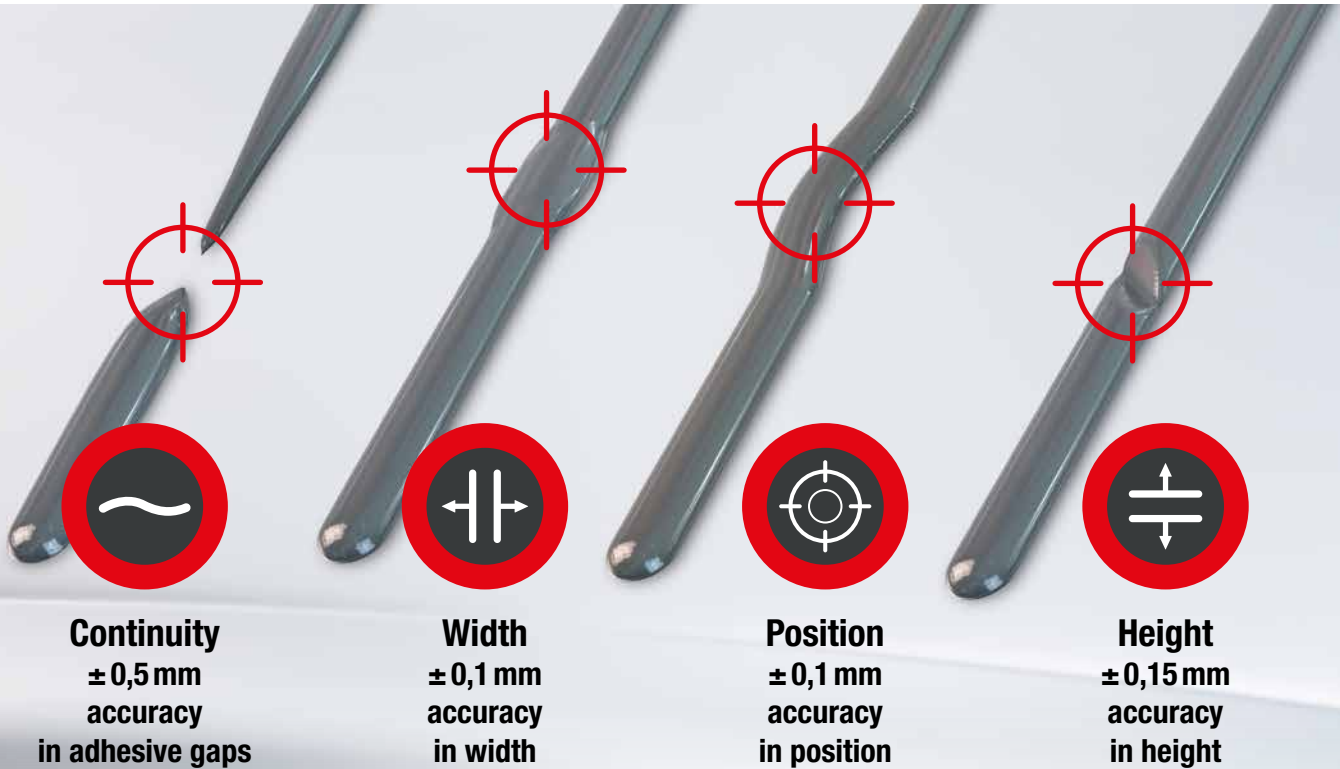


Reliable bead inspection

The RTVision.3d software in real time generates a full point cloud and the corresponding height image based on the triangulation results. It automatically checks if the bead width, height and position are within tolerance and the bead is continuously applied without gaps.

The intuitive user guidance and clear OK/NOK indication makes the operation easy and fast.

RTVision.3d: High precision in every dimension



Full performance of your application system

Consisting of laser sensors with integrated cameras, the RTVision.3d can be used for various application types in their curves and with round bead applications. By using the principle of color and pattern. The robust and compact product design allows flexible adaptation to any inspection task.

Especially for demanding applications such as structural and safety-critical bonds, it is important to ensure a high application quality of the bead.

RTVision.3d can be used in your production especially in curves and with round bead applications. By using the principle of laser triangulation, high reliability, constant results, and full power even for the height value can be achieved.

The inline system provides visual feedback to the operator, which enables fast and efficient reactions.

Tailored to your needs

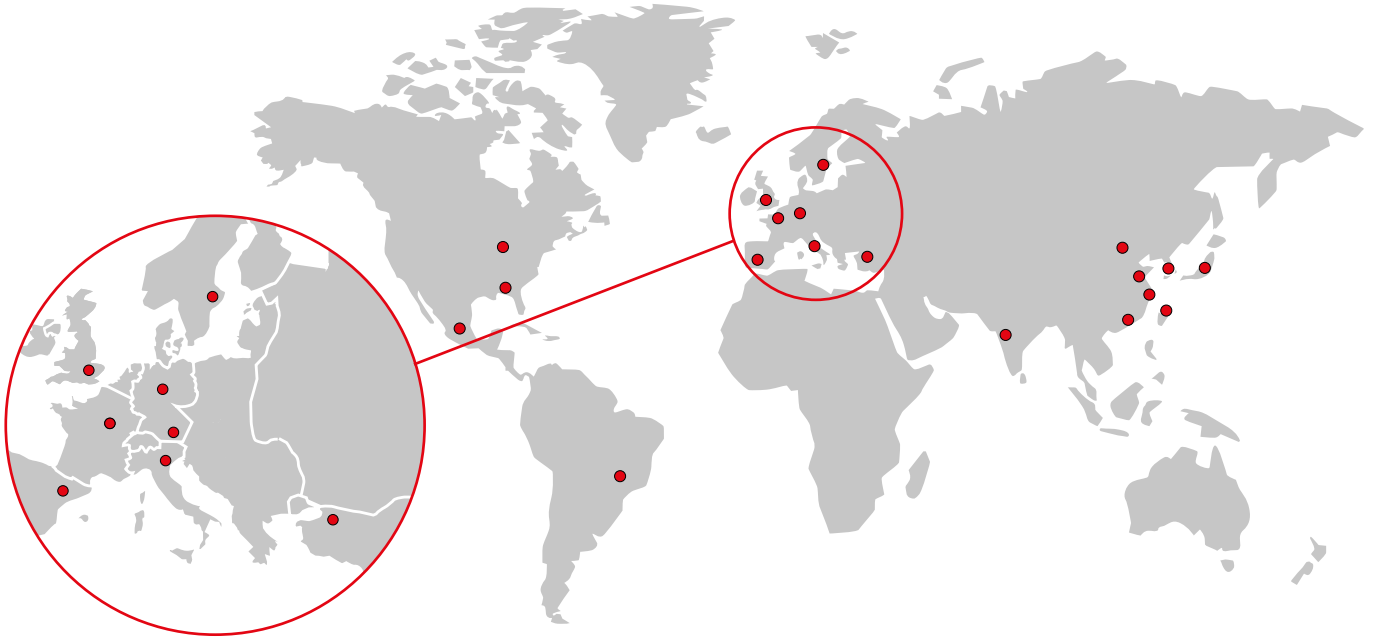
The RTVision.3d is available in three different sensor versions. These three variants adapt perfectly to your needs This ensures full flexibility regarding your individual process.

RTVision.3d – Technical specifications

Diameter	166 mm	190 mm	210 mm
	Abhängig vom Arbeitsabstand		
max. weight			2,000 g
Working distance		85 mm - 245 mm	
Frame rate	Bis zu 600 Bilder pro Sekunde		
Ambient temperature			0° - 40° C
Operating voltage			24 VDC
Accuracy in adhesive gaps			± 0,5 mm
Accuracy in position			± 0,1 mm
Accuracy in height			± 0,15 mm
Accuracy in width			± 0,1 mm



Innovations for robot-based automation



Automation at the highest level

ISRA VISION has been a leading provider of high-performance quality inspection, robot guidance, and manufacturing logistics for more than 30 years. The portfolio expansion with the proven QUISS inspection systems provides you with perfectly aligned automation solutions across the complete process chain.

Already globally proven, innovative QUISS technologies ensure seamless quality assurance and unleash significant potential for greater efficiency in assembly processes - while delivering a quickly realizable return on investment.

Our solutions consistently align with the requirements of our customers. We also support you after delivery with seamless support for service and maintenance so that the utilization of your systems and equipment sustainably increases productivity.

At our facilities in Europe, North and South America, and Asia, more than 900 employees are committed to your success.

QUISS - the expert for adhesive bead inspection

The combined portfolio of ISRA and QUISS complements each other perfectly. QUISS has a distinctive competence in the automotive sector as an expert for adhesive bead inspection, regardless of the adhesive or surface type. Customers prefer QUISS systems for the following reasons:

- Our systems are deployed by all the world's leading vehicle manufacturers, with over 5,000 systems running in the adhesive bead inspection application. More than 100,000 km of adhesive beads per day are inspected by the systems.
- With our RTVision product family, we offer a solution for all inspection tasks during or after the adhesive application. The system can be installed in all production areas from the press shop to final assembly and across all applications - offering automation and quality assurance from a single source.
- The systems can be individually tailored to your application. You will achieve a return on investment within one year on average.

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Optimize your ROI with the technology leader **ISRA**

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