

VISION 2026:

Photonic-based Solutions for Next-Generation Machine Vision

Artificial intelligence, faster production lines and increasingly demanding quality standards are driving the next generation of industrial machine vision. Reliable inspection no longer depends on a single component but on the perfect interaction of optics, illumination and image processing.

At VISION 2026 in Stuttgart, Vision & Control will present its latest 'Photonic-based Solutions' for industrial inspection, demonstrating how integrated vision technologies enable higher precision, greater process reliability and increased production efficiency.

A major highlight will be two live demonstrations. One showcases the use of Deep Learning for highly reliable defect detection, enabling robust inspection even for complex surface structures and previously difficult-to-classify defects. The second demonstration focuses on High-Speed Vision, illustrating how modern vision systems can perform accurate inspections at extremely high production speeds without compromising reliability.

Visitors will also discover the company's latest telecentric illumination systems, specifically developed for demanding measurement and inspection applications where maximum image quality and repeatability are essential. Complementing these solutions are custom-designed optical systems engineered to meet the specific requirements of complex industrial applications.

Rather than supplying individual components, Vision & Control develops complete photonic solutions in which optics, illumination and image processing are engineered as a perfectly matched system. This integrated approach enables manufacturers to achieve higher inspection accuracy, improved process stability and lower overall operating costs.

As the world's leading trade fair for industrial machine vision, VISION 2026 provides the ideal platform for exchanging ideas with developers, machine builders, system integrators and manufacturing specialists from around the world. Vision & Control looks

forward to discussing future inspection challenges and presenting practical solutions for next-generation automation.

Visit Vision & Control at VISION 2026

Hall 10 | Booth 10B87

About Vision & Control

Vision & Control is one of the leading suppliers of integrated machine vision solutions. The company's portfolio - made in Germany - combines high-performance optics, innovative illumination technology and intelligent image processing to create complete photonic systems for demanding industrial inspection tasks. Standard products as well as customer-specific developments are used worldwide in automation, electronics manufacturing, medical technology, automotive production and many other industries.

Further Information

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