V2i

INLINE QUALITY INSPECTION

Using 3D Laser Scanners, Machine Vision Cameras, and Artificial Intelligence

Benefits

- **Precision**: Reduces human error with automated accuracy.

- **Speed**: Increases inspection throughput.

- **Cost Efficiency**: Cuts labor costs and waste.

- **Adaptable**: Customizable and scalable to needs.

- **Cutting-Edge Tech**: Uses advanced 3D and AI tools.

- **Proven Results**: Backed by successful industry implementations.

Improving Manufacturing Quality and Efficiency Through Technology

In the fast-paced world of manufacturing, quality inspection is a crucial step at the end of production lines. Traditionally, this process has been conducted visually by human operators, a method that, while effective, is time-consuming and prone to human error. As manufacturing processes become more complex and production rates increase, the need for more efficient and accurate quality inspection methods becomes paramount.

Enter the world of advanced technology solutions: 3D laser scanners, machine vision cameras, and artificial intelligence (AI). These tools are transforming the way businesses approach quality inspection by automating the process, increasing accuracy, and significantly reducing inspection times.
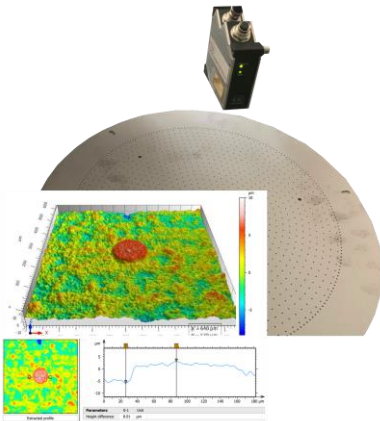

Encased multi-device acquisition

Machine vision camera

INLINE QUALITY INSPECTION

Custom display of 3D laser scanner measurements

Tailor-made HMI

Integration in production lines

FROM VIBRATIONS
TO IDENTIFICATION

Our Cutting-Edge Solution: Precision and Integration at Your Service

At V2i, we specialize in integrating state-of-the-art quality inspection technologies into your existing production lines. Here's what makes our solution stand out:

Expert Integration with Leading Technology Providers:

We maintain long-term collaborations with top-tier providers of 3D scanners and machine vision cameras. This ensures that you receive the most advanced and reliable technology in the industry, seamlessly integrated into your manufacturing processes.

Certified and Experienced Development Team:

Our team includes certified LabVIEW developers and qualified Python developers, ensuring that the solutions we develop are not only robust but also state-of-the-art. We are equipped to handle the intricacies of both software and hardware aspects of quality inspection systems.

Customizable Human-Machine Interfaces (HMI):

We understand that each manufacturing setup has unique needs. That's why we offer tailor-made HMI solutions that are intuitive and user-friendly, enabling easy monitoring and control of the quality inspection process.
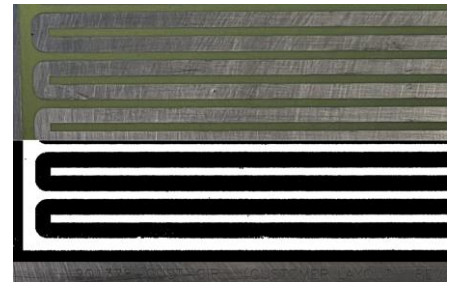
Flexible Communication with PLCs:

Our systems are designed to communicate with programmable logic controllers (PLCs) using multiple methods, ensuring consistent integration and real-time data exchange across various components of the production line.

Multi-Device Acquisition Capability:

We have the expertise to combine multiple acquisition devices within a single inspection system, providing a comprehensive solution that covers all angles and aspects of the manufacturing process.

Extensive Portfolio of Successful Use Cases:

With a vast array of successful implementations across different industries, our solutions are proven to enhance productivity and reliability. Our portfolio demonstrates our ability to tailor solutions to meet specific industry needs and challenges.

Hybrid display

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Located in the Liege Science Park, V2i is a recognized Belgian player since 2004 and specialized in the development of turnkey monitoring systems and vibrations tests & measurements solutions. To fulfil its objectives, V2i has an experienced team of more than 15 persons and modern facilities. The company has been growing continuously since its foundation and is active in major sectors of the industry (aeronautics, automotive, transport, civil engineering, etc).