

Revolutionise manufacturing processes with AI-powered visual inspection

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AI-powered visual inspection software revolutionising quality assurance across industries and configurable without programming knowledge. Yes, it exists. It's called MELSOFT VIXIO.

Imagine a bustling factory floor where every product that rolls off the line is a testament to meticulous craftsmanship. Yet, no matter how skilled, the human eye can tire, and defects can slip through unnoticed in those moments of fatigue. Enter MELSOFT VIXIO — tirelessly vigilant, ensuring that every product can meet the highest quality standards.



Image Caption: Revolutionise manufacturing processes with AI-powered visual inspection

[Source: Getty Images]

“Our visual inspection software transforms the inspection process, making it more accurate and efficient. It performs the heavy lifting of primary screenings, identifying potential defects with unmatched precision. Doing so liberates human inspectors to focus on what truly matters—ensuring that only the finest products reach the hands of consumers” - emphasises Daniel Sperlich, Strategic Product Manager Controllers at Mitsubishi Electric, Factory Automation EMEA.



Image caption: Daniel Sperlich, Strategic Product Manager Controllers at Mitsubishi Electric, Factory Automation EMEA
[Source: Mitsubishi Electric Europe]

How does it specifically work?

1. Learning phase: The software learns what a "good" product looks like by reviewing many examples of good and bad items, similar to studying for a test.

2. Image processing: After learning, it analyses product images in real-time using algorithms to compare them against its training data.
3. Decision making: Based on its analysis, the software gives products a "thumbs up" if they meet standards or a "thumbs down" if not, ensuring only quality products are sent out.
4. Feedback loop: The software improves over time; if it makes mistakes, engineers can update its learning data to enhance its accuracy in recognising products.

But the innovations don't end there. MELSOFT VIXIO is designed for ease of use and requires no specialised programming knowledge. Its intuitive interface allows users to set up three simple processes: making the picture dataset, creating the AI model by configuration, and generating the task via low-code. It demands only building with the help of low code instead of programming, making it accessible to everyone—from seasoned engineers to newcomers in the field.

As our tool debuts across the EMEA region, it targets industries ranging from automotive to food & beverage to life sciences. It promises to enhance productivity and reduce waste and energy consumption. For those interested in advancing inspection processes, MELSOFT VIXIO is equipped to facilitate this transition.

For more information and to try it firsthand with a trial version, visit the Mitsubishi Electric Website at

[\[Edge Computing Software | Edge Application | Vixio - Mitsubishi Electric Factory Automation - EMEA\]](#).

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With more than 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognised world leader in the manufacture, marketing, and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation, and building equipment. Mitsubishi Electric enriches society with technology in the spirit of its "Changes for the Better." The company recorded a revenue of 5,257.9 billion yen (U.S.\$ 34.8 billion*) in the fiscal year ended March 31, 2024.

For more information, please visit www.MitsubishiElectric.com.

**U.S. dollar amounts are translated from yen at the rate of ¥151=U.S.\$1, the approximate rate on the Tokyo Foreign Exchange Market on March 31, 2024.*

About Mitsubishi Electric Factory Automation Business Group

Offering a vast range of automation and processing technologies, including controllers, drive products, power distribution and control products, electrical discharge machines, electron beam machines, laser processing machines, computerised numerical controllers, and industrial robots, Mitsubishi Electric helps bring higher productivity – and quality – to the factory floor. In addition, its extensive service networks around the globe provide direct communication and comprehensive support to customers. The global slogan "Automating the World" shows the company's approach to leveraging automation for the betterment of society, through the application of advanced technology, sharing know-how, and supporting customers as a trusted partner.

For more about the story behind “Automating the World” please visit:
www.MitsubishiElectric.com/fa/about-us/automating-the-world

Factory Automation EMEA

Mitsubishi Electric Europe B.V., Factory Automation EMEA has its European headquarters in Ratingen near Dusseldorf, Germany. It is a part of Mitsubishi Electric Europe B.V. which has been represented in Germany since 1978, a wholly owned subsidiary of Mitsubishi Electric Corporation, Japan. The role of Factory Automation EMEA is to manage sales, service, and support across its network of local branches and distributors throughout the EMEA region.

For more information, please visit emea.mitsubishielectric.com/fa

About e-F@ctory

e-F@ctory is Mitsubishi Electric's integrated concept to build reliable and flexible manufacturing systems that enable users to achieve many of their high-speed, information-driven manufacturing aspirations. Through its partner solution activity, the e-F@ctory Alliance, and its work with open network associations such as the CC-Link Partners Association (CLPA), users can build comprehensive solutions based on a wide-ranging "best in class" principle.

In summary, e-F@ctory and the e-F@ctory Alliance enable customers to achieve integrated manufacturing but still retain the ability to choose the most optimal suppliers and solutions.

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