

The logo for vAI, consisting of the letters 'vAI' in a bold, sans-serif font. The 'v' is teal and the 'AI' is dark blue. The logo is centered within a white square, which is itself enclosed in a dark blue border.

vAI

vAI

For Powerful
Solutions

Software

Enhancing Performance with Artificial Intelligence

Quality control is key in electronics production, and as components become more complex, it is more important than ever. Viscom combines innovative inspection technology, such as advanced algorithms, precise 3D measurements, and high-resolution imaging with AI-powered tools to boost automation and speed. The vAI products, developed by Viscom's in-house AI specialists in Hanover, Germany, simplify complex inspections and integrate

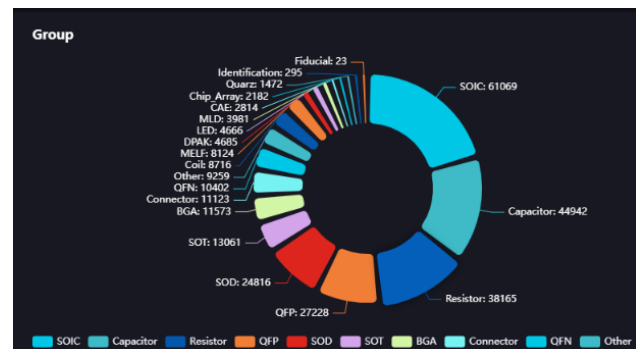
seamlessly into production workflows. These solutions are customizable and have been field-tested with selected customers to ensure reliable performance and full control. From feasibility studies to AI implementation, Viscom provides complete support, offering autonomous inspection verification, intelligent image processing, and easy program setup.

vConnect – The next Level of Digital Connectivity

vConnect acts as central user control for Viscom services. You can simplify your processes and monitor and control the technical status of your machines effortlessly. Condition Monitoring provides you with real-time data and shows you the current state of your machines in your dashboards. Furthermore, you can enhance maintenance efficiency due to elements from vConnect Predictive Maintenance. You can also organize, customize and design your dashboards individually. Additionally, we offer scalable storage solutions – both local and cloud-based – to cover large amounts of data. We are delighted to help with our various modern solutions, including cloud connection and cloud usage. Due to the backup service, you are protected against security gaps and data losses. You will experience a new level of intelligent connectivity – to achieve one goal: Increase the productivity of your machines!



vAI Hub – A Dynamic AI Testing & Development Platform



Detailed Verification Hub: Top Import Overview

Through Viscom's multipurpose platform vConnect, customers have access to explore and test additional Viscom AI models using the Live AI feature. The vAI Hub not only offers a live testing environment, but also ongoing functional enhancements from Viscom's AI experts. Customers can use the vAI Hub for e.g. AI supported image processing and access the existing Viscom AI models or independently initiate their own AI models individually and time independent.

The vAI Hub can be modularly expanded with AI-based verification. Customers can upload data for AI model training, view the data in statistical formats, and reclassify the data for Groundtruth AI models. This makes the vAI Hub a central platform for creating and validating AI models.

Three advanced AI solutions from Viscom

AI-based verification – The Next Level of Effectiveness

Viscom's vAI solution is trained with millions of qualified images from diverse electronic production environments, offering a level of defect variation unmatched by a single production site. This extensive data, combined with specific customer input, is integrated into the AI training process. Each model comes with a tailored vAI Quality Report, a statistical breakdown showcasing performance improvements, potential workload reductions, and areas for further optimization in the verification process.

Maximum reduction in workload for the operator

Prevention of misjudgments due to human error

Enhanced product quality

Improved data quality

Optimization of the verification process

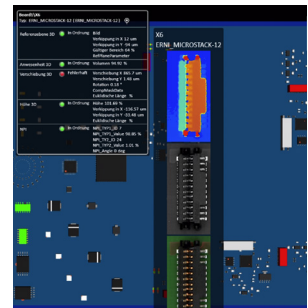
Reducing repairs for efficiency & contributing to sustainability

NPI – Automatically Recognize Objects with Machine Learning

Current methods allow for the creation of new automatic optical inspection plans in under 15 minutes. AI further enhances this process by identifying missing or incomplete data on components and solder joints, automatically assigning the necessary inspection patterns. This AI-powered solution reduces the workload for both prototypes and high-mixed environments, making inspection plan creation faster and more efficient.



Simple and fast inspection plan creation



Low effort for prototypes and small batch sizes

AI supported image processing – Impressive Results in Feature Extraction

AI technology accelerates inspection times and improves First Pass Yield (FPY) depending on the application. It replaces traditional, complex inspection strategies, offering a streamlined approach. Tasks that once relied on manual or semi-automatic methods can now be efficiently addressed through AI-supported image processing, enabling solutions to challenges that were once difficult to fully automate or required considerable effort.

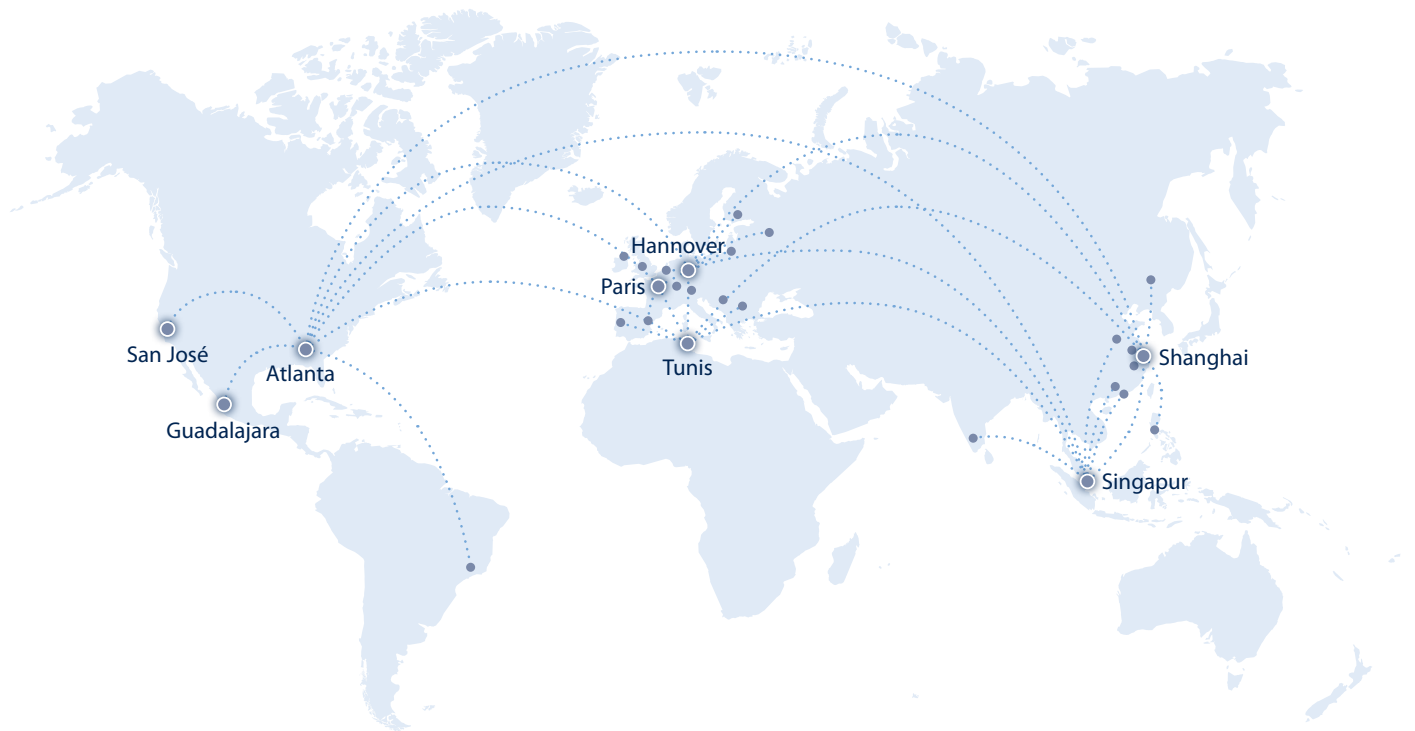
Advanced solutions for complex inspection tasks

**Potential for reducing cycle times
(especially for AXI inspection)**

Reduction of false calls & improvement of FYP

Reliable detection of real errors

**Reduction of programming effort for complex
inspection methods**



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