



AI.SEE

Visual Quality Control and Defect Detection
for the Smart Factory

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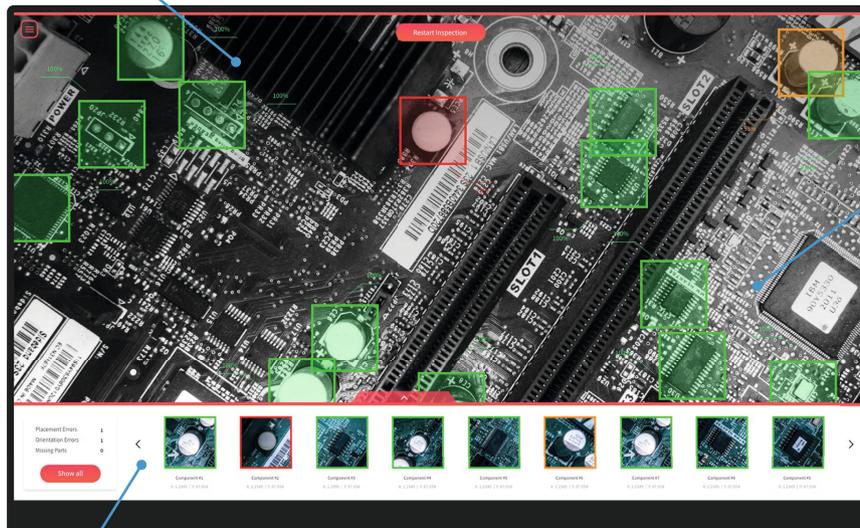
Automated Quality Assurance with A.I. Image Recognition

In times of industry 4.0 and smart factories the automation of quality control plays an increasingly important role. However, quality control is usually performed manually by an employee. This results in an enormous stress level for the inspector and the company runs the risk of not being able to guarantee consistent quality. To counteract this problem, the Munich-based company elunic has developed a

solution - the AI.SEE system for visual quality control and defect detection.

AI.SEE relies on the latest generation of Automated Optical Inspection (AOI) and self-learning models based on machine learning (ML) and deep learning (AI) algorithms.

Image analysis



Labeling

Classification

Deep Learning vs. Computer Vision

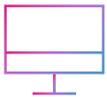
Conventional AOI systems rely on Computer Vision. This means that they only work on the basis of fixed rules for the identification of shapes and lines. What both systems have in common, however, is that they enable fast, accurate and automated inspection of electronic assemblies. elunic goes even further with AI.SEE. By using self-learning models, it is possible to open up further data potentials even with increasing complexity. By means of training images, the system learns to identify objects on the basis of common characteristics, similar to a human being. Since AI.SEE works similarly to a human brain, it is more adaptable: the system can make its own forecasts and decisions. Quality defects can thus be prevented, as error patterns are detected by real-time monitoring.



Live monitoring, reporting, defect analysis and MES integration.

With AI.SEE you are able to continue on your way to a networked factory, seamlessly integrated into your MES system you can use the full potential of intelligent quality control for yourself and prevent expensive failures.

All Benefits at a Glance



Real-Time Monitoring

Smart detection of error patterns prevents quality defects.



Faster inspection

Automated detection of all defects within seconds.



Better Quality + Less Scrap

Minimizes malfunctions of the final product as collected data prevents mistakes.



Higher Robustness

Adaptive capabilities reduce pseudo errors and increase process windows.



Ease-of-Use + Reliability

Fast implementation, changeover and training, as well as lower false-fail rates.

Why elunic?

elunic is an Industry 4.0 software company. With more than 15 years of experience and a deep understanding of machine learning, artificial neural networks, visual quality control, defect detection and quality assurance in manufacturing, automated optical inspection (AOI) and real-time monitoring. The software developers and specialized IIoT experts evolve digital strategies and tailor-made software solutions for renowned industrial companies and machine manufacturers.

AI.SEE disrupts optical inspection using deep neural networks and automated optical inspection (AOI).

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