Reduce variability.
Eliminate Uncertainty.
Accelerate Productivity.

Eigen Innovations

With its new software suite, Eigen Innovations initiates a paradigm shift in industrial machine vision with a visionary approach of the smart factory.

In the smart factory of the future, vision systems are standardized across manufacturing lines and sites. They are interconnected to learn from each other. They use machine learning to constantly optimize their performance.

The image data they collect is automatically correlated with process data to analyze the root cause of defects. This intelligence generates automated alerts to production teams to take preventive measures before defects occur.

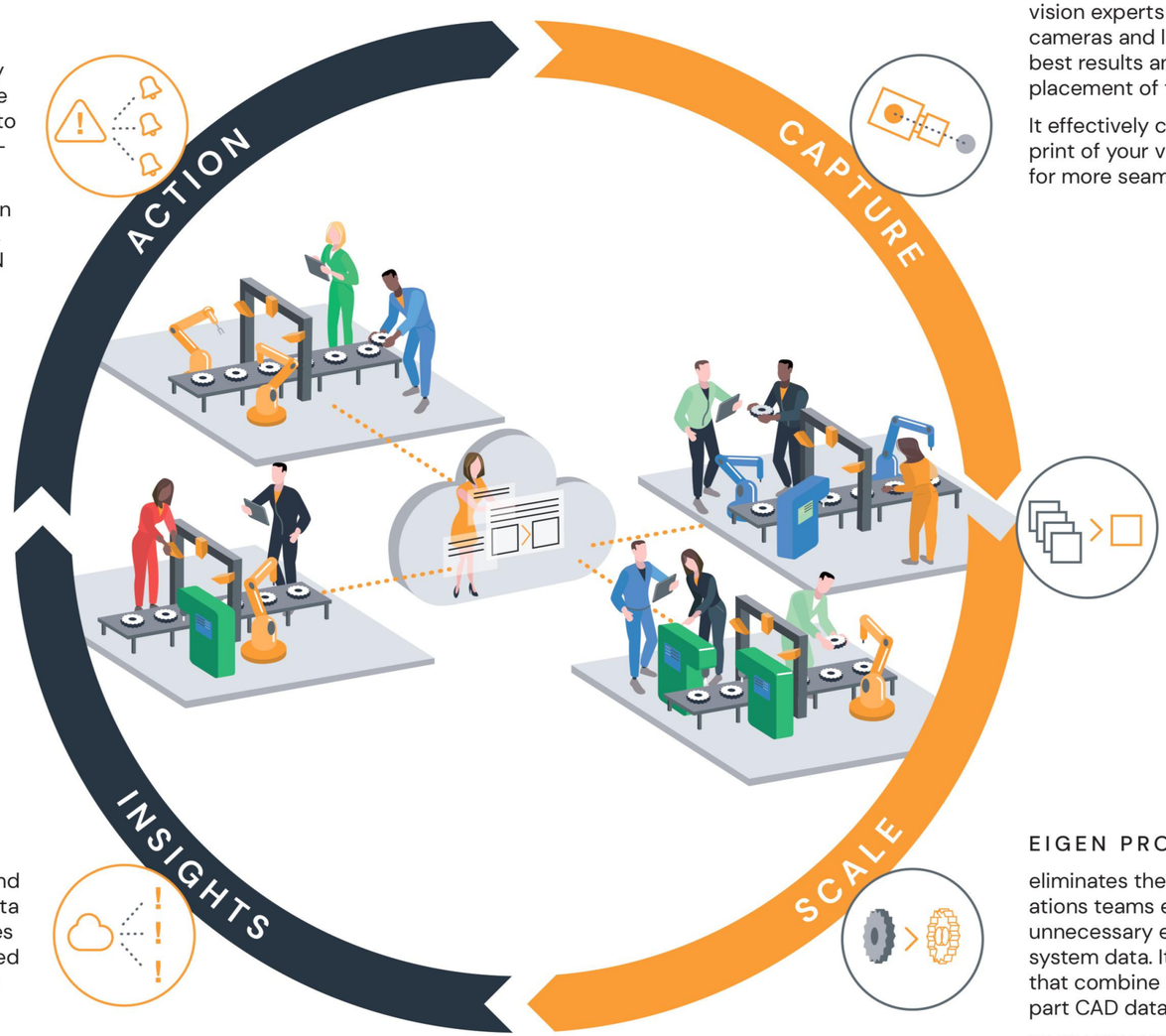
Eigen Innovations delivers the tools and infrastructure to unlock the full potential of machine vision. Discover our vision of the autonomous, learning, smart factory of tomorrow!

With Eigen Innovations' Smart Vision for the Smart Factory suite, optimize image acquisition, scale up your vision systems, gain insights in your process and anticipate issues to act and not react. Leverage the latest technologies to reduce variability, eliminate uncertainty and accelerate productivity.

EIGEN EDGE

makes vision intelligence a reality at the edge. It takes the complexity out of configuring scalable machine vision applications and allows you to deploy and manage machine learning models easily in the factory.

With EIGEN EDGE, share information between vision systems, machines, factory IT and the cloud. Use EIGEN CLOUD analytics to alert factory teams before issues arise.



EIGEN VISION TWIN

is a design tool that helps machine vision experts determine which cameras and lenses will produce the best results and confirm the optimal placement of the camera(s).

It effectively creates a digital blueprint of your vision system to allow for more seamless implementation.

EIGEN IMAGE TWIN

helps machine vision experts reduce the variability of the image data they process at the edge. Traditionally, this variation was an unavoidable byproduct of multiple cameras and different camera angles.

IMAGE TWIN solves this by merging raw image data and creating a virtual and normalized image dataset, regardless of the variation in the camera location.

EIGEN CLOUD

enables manufacturers to go beyond detection. Converge your vision data across machines, lines and factories and augment it with process-related insights. EIGEN CLOUD determines correlations between events – e.g. between a tool change and a drift in product quality. The result is a 100% traceability of throughput and process KPIs. These insights can be deployed to the edge using EIGEN EDGE.

EIGEN PRODUCT TWIN

eliminates the frustration factory operations teams experience expending unnecessary energy interpreting vision system data. It creates 3D part records that combine image data with original part CAD data.

PRODUCT TWIN tells a story about each product, allowing factory teams to be more proactive and efficient. Manufacturers can retrieve this virtual product twin data for defect analysis, traceability, or product liability claims.

www.eigen.io