



VISION SOLUTIONS

Traditional **Image Processing** combined with **Machine Learning / AI**



sata vision

Machine Vision technology drives innovation across many industries and use cases and pushes the business impact of artificial intelligence into new frontiers. Machine Vision applications involve capturing, processing, and analyzing real-world images to allow machines to extract meaningful, contextual information from the physical world.

With a team of experts with strong capabilities in the field of industrial machine vision, we empower enterprises with vision applications that leverage the combination of conventional machine vision with advanced machine learning techniques. Our robust and high-performance solutions significantly increase human productivity and improve production efficiency.

We supply systems for the most demanding industries such as automotive, tire manufacturing, and logistics.



Consulting
Feasibility Studies



Technical
Specifications



Mechanical & Electrical
Engineering

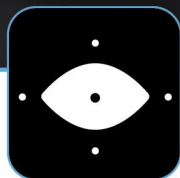
Machine Vision / AI
Software



Commissioning
Integration
Documentation



Maintenance
Support



COMPLEX VISION SOLUTIONS

Automated Identification Solutions

We design custom AI-based vision inspection and automated identification solutions for various inspection tasks such as automated part or content identification, OCR/OCV, barcodes or RFID reading, and color, shape or size identification.

Inline Inspections

We supply automated in-line inspection solutions based on AI for a variety of manufacturing industries. We harness the power of machine vision and deep learning and train neural networks to achieve maximum performance of our algorithms.

Object Recognition

We deliver best-in-class label verification systems by building and training robust OCR models. Our customized automation systems can read and verify the quality of labels and propagate the retrieved information to the upper systems.

Robot Guidance

We design contactless adaptive guidance systems for industrial robots to reduce cycle times in production based on extensive data collection from multiple sensors and cameras, which are continuously analyzed and stored.

Quality Control

We solve highly accurate quality control - presence/absence, defects, colors, dimensions, texts, and descriptions. We train neural networks so that these systems are adaptive to changing environmental conditions.

Contactless Measuring

Deep learning algorithms trained on real production data to measure precise coordinates of detected objects or other attributes suitable for various use cases. Our non-contact optic solutions improve the speed, accuracy, reliability, and quality of manufacturing processes.

Contactless Localization

Customized visual object detection solutions and quality control systems to automatically detect defective products or verify content. We build our solutions on a robust AI platform to obtain an audit log for possible complaints.

2D / 3D Vision

Depending on the type of application, we can perform data analysis of 2D or 3D image data. We train deep learning algorithms on both types of vision systems. We provide big data analytics using machine learning.



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