INTELLIGENT INSPECTION

The Comprehensive Solution for Quality Control & Predictive Maintenance
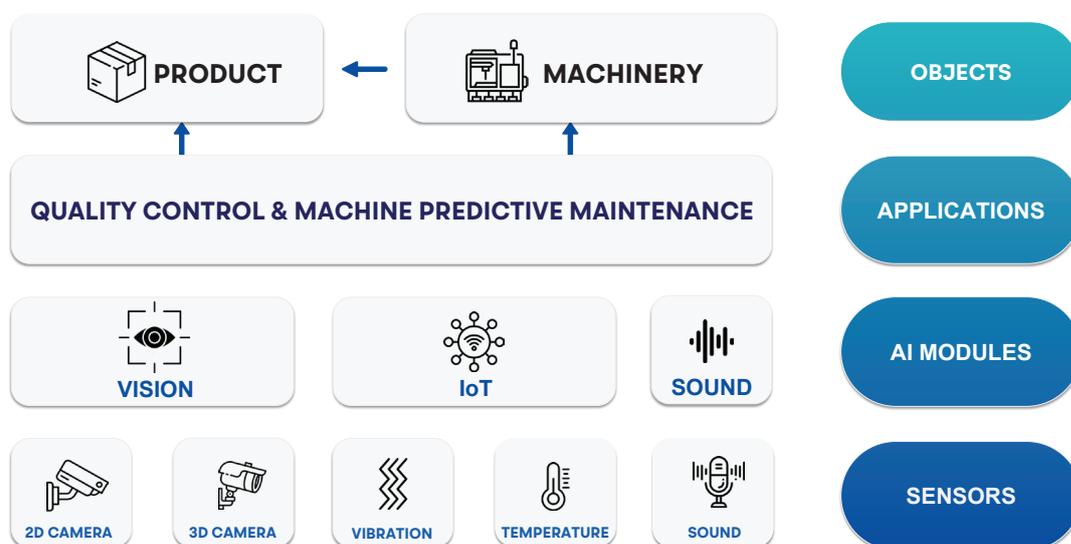
Challenges in maintenance and quality control

The goal of any manufacturing-based going concern is to have, amongst other things, proper product quality control. However, throughout the process of manufacturing, issues may occur that affect production. The result of these issues are defects, deficiencies, or significant variations in the final product's expected performance or appearance. Some of the issues included:

- Excess documentation
- Supply chain complexity
- Lack of resources and time
- Insufficient motivation
- Resistance to Technology

What is I2?

"Intelligent inspection (I2) is the comprehensive AI solution for smart factory, combining vision, IoT and sound modules to automate quality control and reduce unplanned downtime of equipment"

PRODUCT ← MACHINERY

OBJECTS

QUALITY CONTROL & MACHINE PREDICTIVE MAINTENANCE

APPLICATIONS

VISION   IoT   SOUND

AI MODULES

2D CAMERA   3D CAMERA   VIBRATION   TEMPERATURE   SOUND

SENSORS

Benefit

Improving product quality with I2 brings great benefits for the factory: from reducing manufacturing cost to making better brand

Ready for Deployment / No more PoC

High-speed processing

Scalable for various products & industries

VisionAI

In collaboration with Landing AI™, a pioneer in providing cutting-edge software that empowers customers to harness the business value of AI, **VisionAI** is an end-to-end MLOps platform specifically designed for industrial customers to build and effectively deploy AI visual inspection solutions.

Easy-to-use platform

Simple one-button deployment on edge device or cloud-based device, simplifies development activities so non-ML experts can build impactful solutions

All-in-one platform

Expedites development, deployment, and monitoring of machine vision projects. Easy monitoring with built-in dashboard (edge devices fleet management, change detection)

Inspection performance

Continuous learning data flow – easy to add new images and retrain models as shown below.

END-TO-END PLATFORM

- Digital Defect Book
- Defect Consensus
- Smart Labeling
- Model Training and Error Analysis
- Flexible Model Deployment
- Model Drift / Change Monitor
- Continuous Learning

SoundAI

SoundAI is an MLOps platform that uses acoustic anomaly detection to automate product and machine inspection and health monitoring, intending to support predictive equipment maintenance. Using both unsupervised & supervised training mechanisms, SoundAI is capable of:

- Sensoring acoustic signal of machines, equipments and ambient noise;
- Representing machine sound data in both normal and abnormal conditions;

The platform can easily be deployed to any edge devices with low-code requirements from the client. The result supports machine health monitoring, even with no abnormal data.

Value to Clients

AUTOMATIC: Reduce the need for abnormal data with an unsupervised model

FAST: Accelerate the speed of deployment with the MLOps platform. Average MVP deployment is as quick as 2 weeks

ACCURATE: Improve accuracy continuously with a detection rate of above 95%

PREDICTIVE: Monitor 24/7 and predict machinery condition

QUALITATIVE: Improve product and asset quality by increasing defective products found by 7%, compared to a manual approach.

SenseAI

SenseAI is an AI & IoT time series data platform designed to collect, process, and analyze large amounts of time-series data from IoT devices and sensors.
By utilizing AI and machine learning algorithms to extract valuable insights and predictions from the data, SenseAI is the ideal solution for data-driven manufacturing optimization.

∞ Features

◉ Scalability

Our platform can handle large amounts of data from multiple sources in real-time, allowing you to monitor and optimize your operations at scale.

◉ User-friendly interface

Our web-based interface allows you to easily monitor and visualize your data, providing actionable insights to improve your operations.

◉ Security

The platform has built-in security features to ensure the safety and privacy of the data being collected, providing peace of mind that your sensitive manufacturing data is secure.

◉ Easy integrations

SenseAI offers a range of integrations with other tools and platforms such as MES and ERP systems, making it easy for you to extract value from the data and streamline your operations. We also provide a comprehensive set of APIs and SDKs that allow developers to easily integrate our platform into their existing systems and applications.

◉ Real-time notifications and alerts

Our platform can generate real-time notifications and alerts based on certain conditions or thresholds set by you, enabling you to take immediate action on critical issues before they escalate.

∞ Contact us: