

SPECTRO Visual Inspection Solution

Fully Automated Secondary Inspection enabled by SPECTRO

While existing AVI / AOI systems achieve high inspection performance, there is the problem of having many false positives. This results in a secondary inspection involving human labor. By using our visual inspection solution, we can reduce the amount of human labor in the secondary inspection and automate it.

The target work supports various things such as substrates, precision parts, metals, plastics, and food. There are many AI models suitable for each work. Learning of new work is also possible with a small amount of training or no training data.



Integration with AVI / AOI systems

The AI performs a secondary inspection based on image data from an existing AVI / AOI system.



Supervised and Unsupervised Training

Possible to learn new work with a small amount of training data or no training data.



Wide range of supported inspections

Various materials or products can be inspected, for example substrates, precision parts, metals, plastics, and food. There is an optimal AI model for each.



API and SDK

When using as a single application, you can start using it immediately after installation. Pre-installation on a box PC is also possible. Use the API / SDK to integrate AI functions to your product.

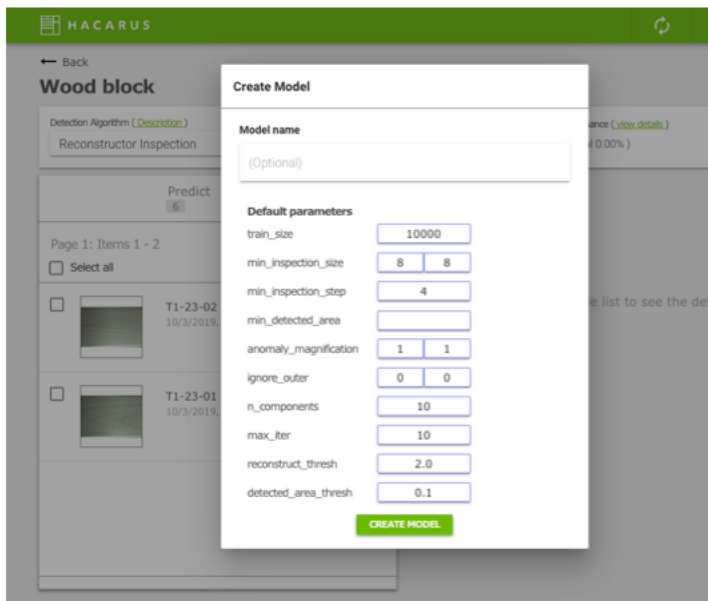
Integration with existing systems

Our visual inspection solution can be used as a single application or integrated into an existing system as a module. By using the API and SDK, it makes easy to integrate the solution into the inspection line currently in operation and to add AI function to your own product.

When used as a single application, we provide a dashboard for administrators and an operation panel for workers as an interface. Enables quick inspection operations using tablets and patch panels.

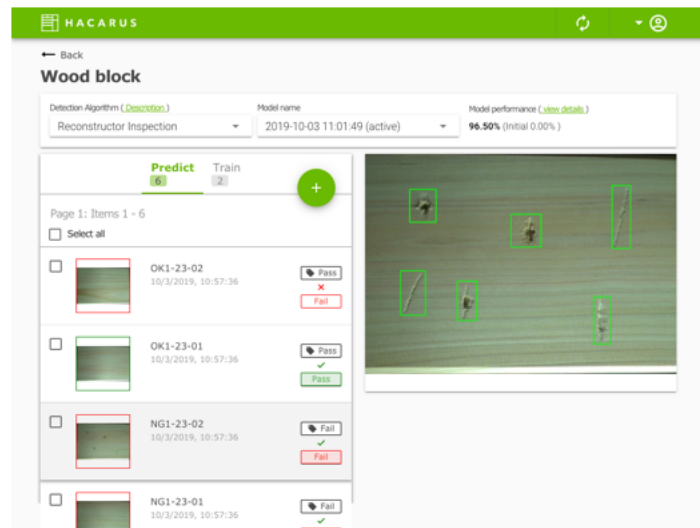
SPECTRO Screens

Training of a new AI model



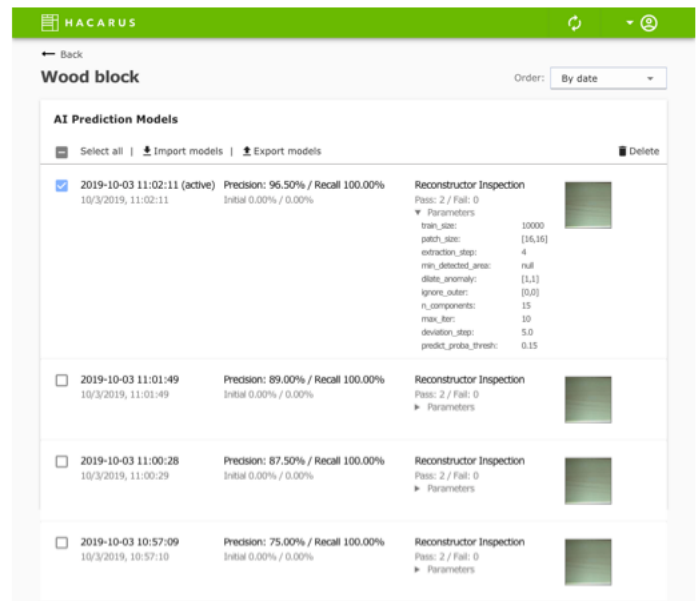
Works with a small amount of sample data, supports supervised and unsupervised learning, depending on the available data

Inspection results



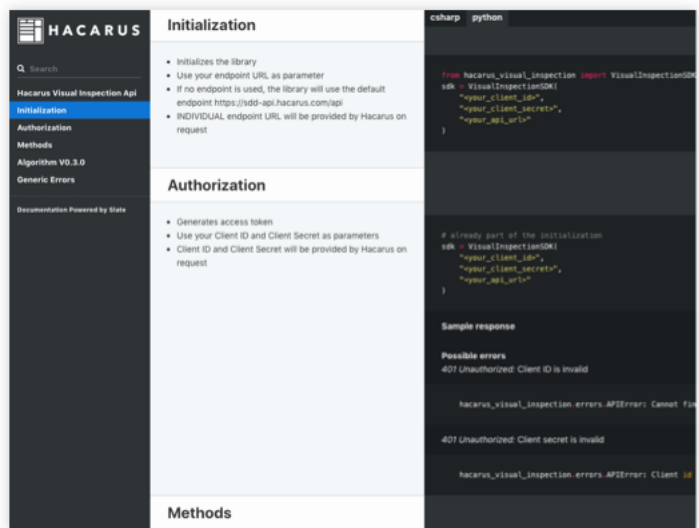
Detailed inspection results highlighting anomalies

Model list



Ability to benchmark algorithms and testing parameters to identify the best performing model

SDK documentation



Seamless integration with existing production line through the SDK