# Interact Vision : automate and deploy your quality control in production.

A **smart industrial software** to automate your visual inspection tasks. **Interact Vision** can connect to your vision sensors (Genicam compatible) and allows you to deploy machine learning algorithms inside your production process.

- Rapid production deployment.
- Repeatable performances.
- Compatible with many sensors.
- Complete quality traceability.
- Offline first.
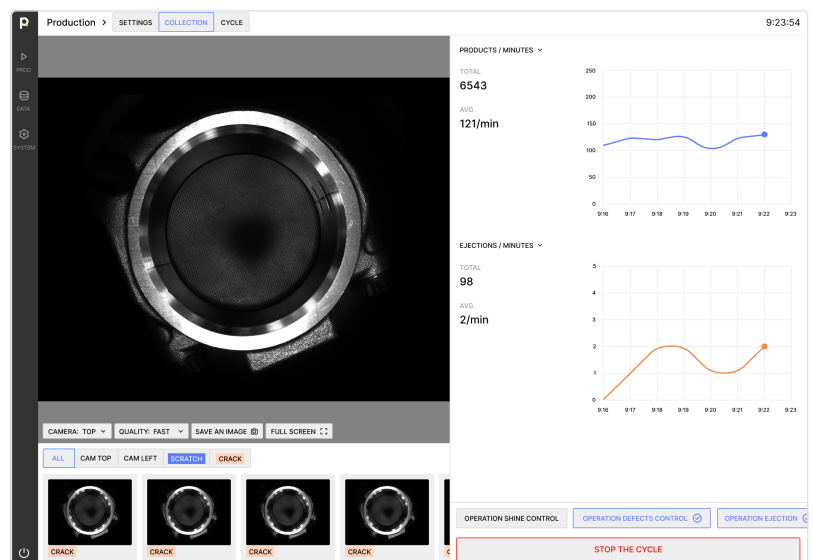
Production module

- **Setup your vision sensors:** modify in real time the gain, exposition and the crop of one or many vision sensors.

- **Configure your data collection:** quickly collect labelled data from your production line. Add metadata or pre-label your data. Multiple modes available: manual, fixed timer, electrical trigger.

- **Track the quality of your production:** visualize in real time the quality of your products. Number of rejected products, total number of products for multiple time scales: 1 second / 1 minute / 1 hour / 1 day. Check the last seen or rejected products and save them to improve your algorithm.

Data module

- **Filter & search:** quickly find the relevant data amongst your database thanks to quick filtering rules or advanced search. You can put together your search with an easy to use UI.

- **Label your data:** follow your progression and label your data in batches.
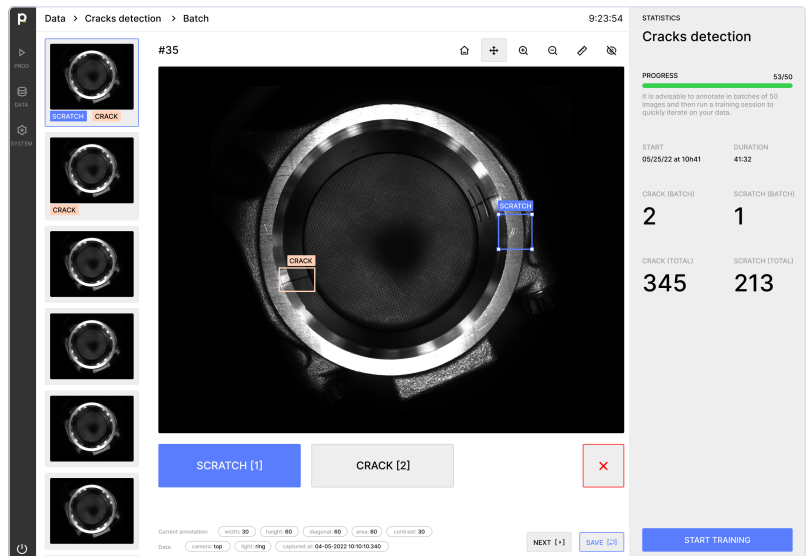
- **Manage your analyses:** create and modify your analyses with multiple types available (object detection & segmentation, classification). Create a test set to compare the performances of your trainings.

- **Train:** train your algorithm and keep track of its performances via key results.
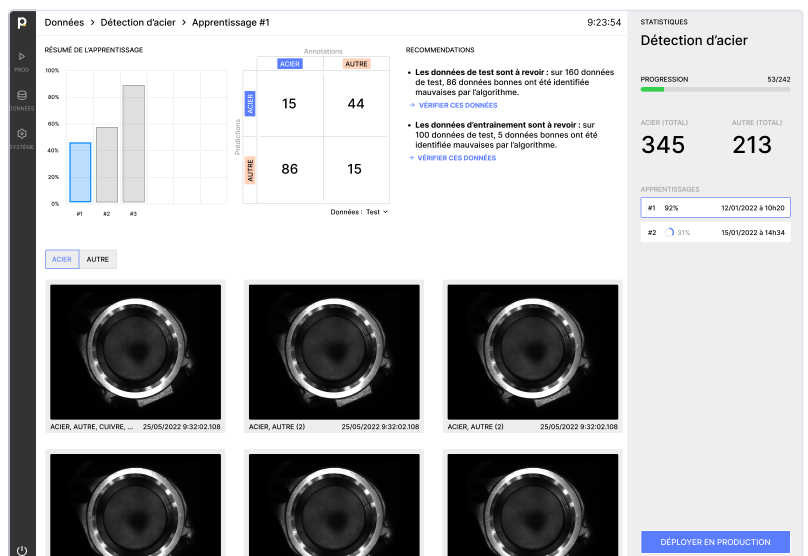
System module

- **Configure your sensors:** add, modify cameras, digital I/O converter, conveyor encoder, detection cell, etc...

- **Logs & system health:** application logs and system informations

Specifications

	Interact Vision + industrial computer
Vision sensors	Baumer, Genicam standard, up to 4
Minimum size of defects	5mm
Processing speed	Production cycle : 30 fps with 1 camera, 5 fps with 4 cameras
Maximum number of cameras	4
OS	Linux
Communication protocols	EtherNet/IP, FTP, Socket messaging
Model types	Classification, Object detection & segmentation
Provided hardware	Intel Core i7-10700, 16 Go RAM, NVIDIA RTX 3070 8 Go

* The number of images processed per seconds is dependant on many things : number of cameras, model types used, number of operations.