

ARTIFICIAL VISION

Detection of **imperceptible details** in all kind of products with Artificial Intelligence

What does Binarial's **ARTIFICIAL VISION** do?

An innovative, precise, and effective detection system

Using vision cameras, we developed various industrial applications so that, leveraging our AI servers, we can offer solutions to clients across different sectors.



ELIMINATE HUMAN ERRORS

Visual inspection by operators can lead to mistakes after long hours of work.

However, with vision cameras, we ensure 100% inspection based on a pattern and the correct detection algorithm.



ADAPTS TO PRODUCTION

As a fully and easily configurable system, it can control different types of parts, adapting to production changes throughout the day.



DETECTS ANY VARIATION

Supported by AI, it forms a robust system that can perceive even the slightest variations in geometry, color, or texture.



INSPECTION OF MANUFACTURED PARTS

Positioned at the output of the production machine, our system achieves 100% inspection of all manufactured products directly on the line. With a subsequent removal system, defective products are prevented from advancing to the next phase of the process.



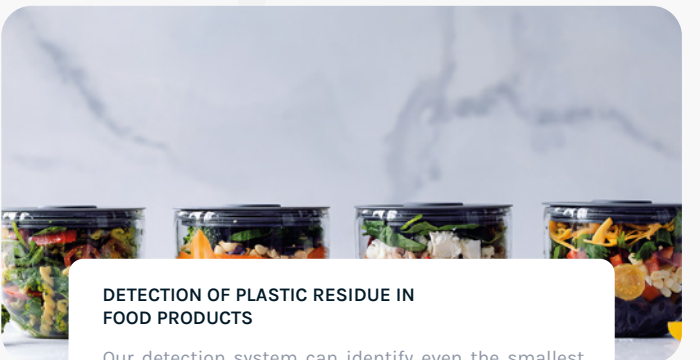
PART PICKING IN MACHINING CENTERS

By adjusting and selecting the correct camera, parts can be picked up at the output of the machining center, allowing for their classification and palletizing or boxing.



INSPECTION OF ADHESIVES, GLUES, OR SEALANTS APPLIED TO PARTS OR CARTONS

In the application of glues or sealants, it is important to control the bead to avoid interruption zones, which can later cause defects in sealing and product leaks or contamination.



DETECTION OF PLASTIC RESIDUE IN FOOD PRODUCTS

Our detection system can identify even the smallest plastic residue on the packaging of a product, ensuring that the client's production is free from plastic contamination and preventing future customer complaints.

ctrlX
AUTOMATION



CTRL-X and Siemens Xcerator Patents

The importance of this technology is highlighted by our incorporation as a featured application on the CtrlX and Siemens Xcerator platforms for international spreading and use.