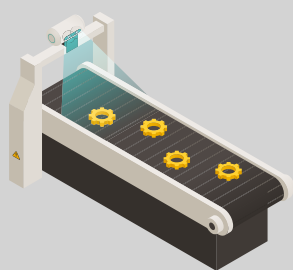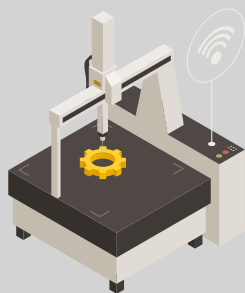# ▣ pixelabs

AI-powered automation designed for your industrial quality control workflows

We customize our advanced visual AI algorithms to **your quality inspection needs**, ensuring accurate results with minimal disruptions to your operations.

Accurate 2D and 3D measurement (dimensions, particle size, angles)

(A)

Comprehensive analysis of color, finishes and textures

(B)

Real time detection of foreign items and contaminants

(C)

Instant identification and precise location of components

(D)

(A) Achieve full traceability and process control by measuring dimensions, volumes, angles, fill levels, and particle sizes. Precisely detect edges, shapes and spatial features — all in real time.

(B) Evaluate color uniformity, distribution, finishes, gloss, textures and overall appearance with precision and repeatability that far exceed manual inspection methods.

(C) Efficiently detect foreign or out-of-place items in your production line, from small organic residues like nutshells to metal parts or industrial debris in heavy industry lines.
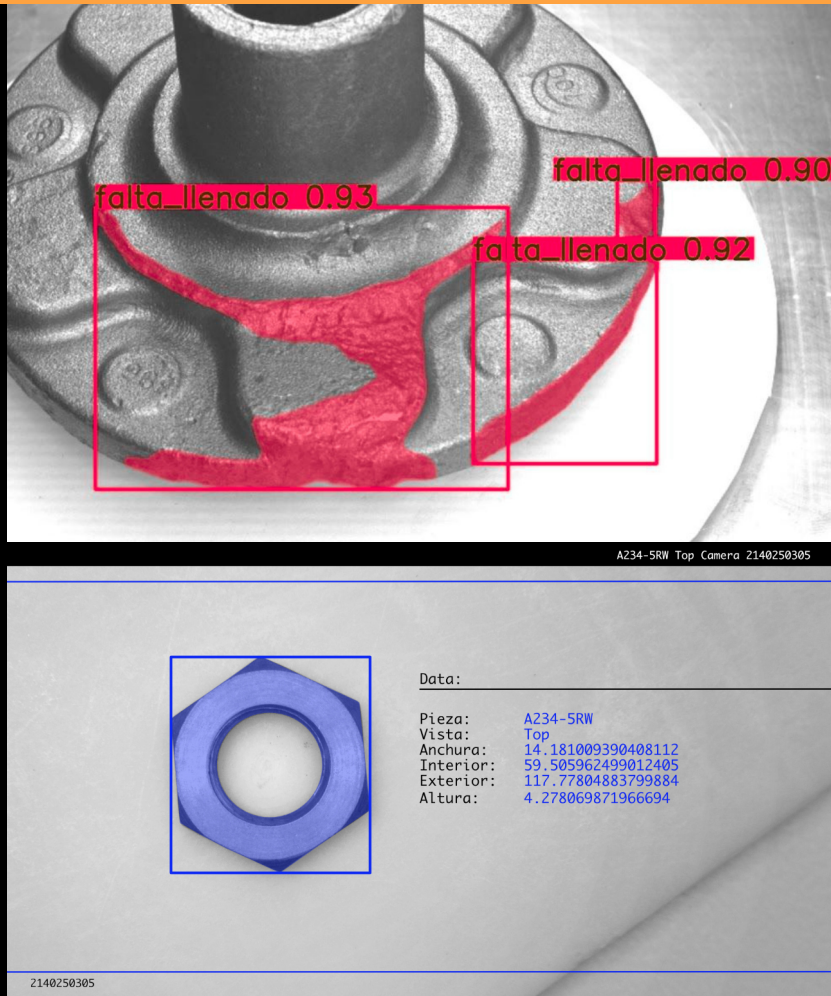
(D) Instantly identify every component, no matter how small, by recognizing unique part identifiers and spatial coordinates with sub-pixel accuracy through visual AI, enabling flawless assembly and component sorting.

Features

- Streamline quality inspection with automated classification, counting, measurement and defect detection.

- Integrate multimodal imaging — including RGB, thermal, 3D, and hyperspectral data — to detect defects beyond conventional methods.

- Replace limited manual inspections with automated, accurate and consistent detection.

- Stop critical errors before they reach your customer, preventing downtimes and improving quality.

falta_llenado 0.93
falta_llenado 0.90
falta_llenado 0.92

A234-5RW Top Camera 2140250305

Data:

Pieza: A234-5RW
Vista: Top
Anchura: 14.181009390408112
Interior: 59.505962499012405
Exterior: 117.77804883799884
Altura: 4.278069871966694

2140250305

COST REDUCTION

Reduce costs associated with errors, rejects, rework and unexpected breakdowns.

AUTOMATED INSPECTION

Automate complex, repetitive and critical quality control and visual inspection tasks.

COMPLETE CONTROL

Detect invisible defects to the human eye, including contamination, structural failures and subtle flaws.

ACCURACY & FLEXIBILITY

Higher precision than standard solutions without custom AI or multispectral vision.

CRITICAL ERROR PREVENTION

Safeguard your process from potentially critical mistakes, protecting both operational efficiency and brand integrity.

REAL TIME PROCESS

Get immediate, actionable insights into the quality and status of your production line.

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