





Transforming Quality
Control with Al Vision

PixiQ, DAI's cutting-edge AI-powered visual inspection platform, is revolutionizing how industries approach quality control.

PixIQ leverages advanced AI and ML models for real-time visual data analysis, moving beyond the limitations of human vision.

www.dhvaniAI.com

PixIQ 2D Edge

Leveraging AI for Manufacturing

Key Capabilities

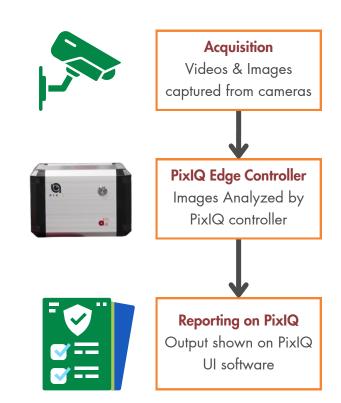
- Robust Edge Controller with builtin Al models
- Real-time quality and compliance analysis
- Plug & Play integration with Cameras and PLCs
- Customizable to specific parts/procedures.

Applications

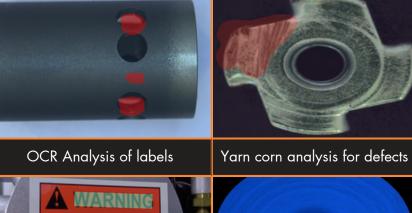
- Surface Defect Detection: Identify scratches, dents, discoloration, and surface imperfections with precision.
- Dimensional Analysis: Measure
 and verify component dimensions,
 tolerances, and geometric
 specifications.
- Packaging Inspection: Verify labels, seals, fill levels, and packaging integrity before shipment

Minimum Defect Size Tested

- Surface Defect: 50 microns.
- MPI: 1 mm crack size.



Surface defect detection on manufacturing parts



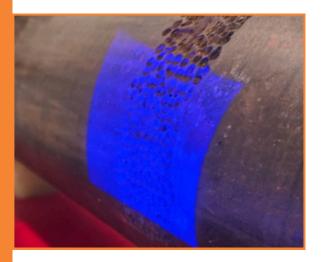


Crack detection in UV light from MPI

PixIQ 3D Profiler



Multi Dimensional Insights. Extract depth variations



Provides full-area depth and profile mapping in one capture, eliminating the need for point-by-point laser scanning or placement of reference markers.

Applications

- · Corrosion and pitting depth profile.
- Capture of dents and geometry variation.
- Reverse engineering a sample.

PixIQ 3D Profiler Use Cases

