

Detect defects in glossy, textured, and painted items

Spyglass Visual Inspection



MARINER



Better defect detection leads to higher profits

15-20%

The estimated Cost of Poor Quality, as a percent of sales revenue, lost by manufacturers

90%

Potential increase in defect detection when using machine vision compared to human inspection

50%

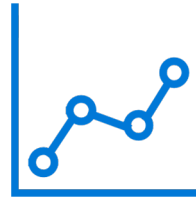
of manufacturers struggle to use machine vision due to false defect detection or inability to deal with complex surfaces

Detect defects in glossy, textured, and painted items

Mariner + Azure + IoT

Spyglass Visual Inspection helps you improve product quality and speed up production by accurately detecting defects on surfaces others would miss, including glass, acrylic, fabric, and painted surfaces. Our solution delivers real-time analysis and feedback with custom machine learning algorithms, a unique spatial rule system, and Azure Stack Edge devices with NVIDIA GPUs.

Optimize your production output



Happier customers

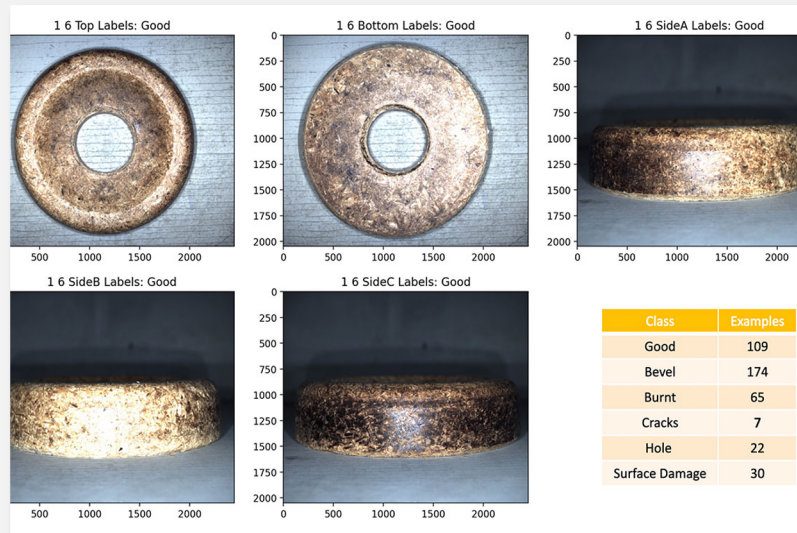
Improve deliveries with higher quality products, helping customers succeed and driving satisfaction and retention

Increased revenue

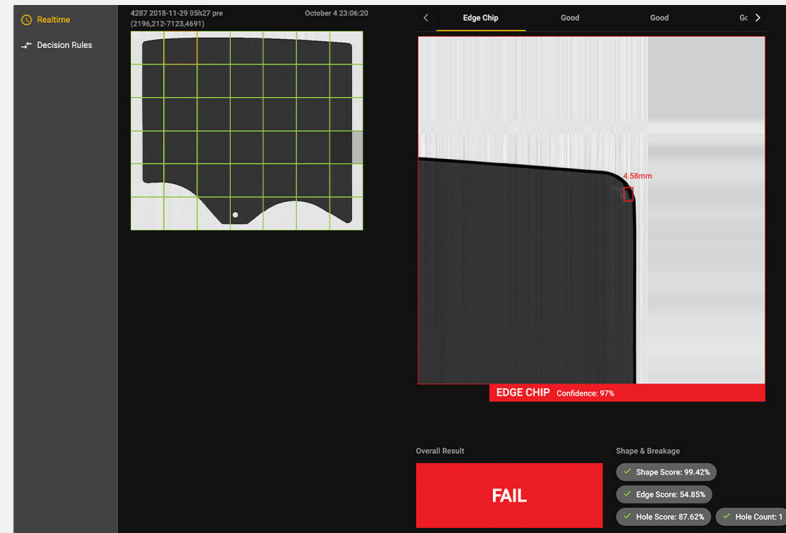
Optimize your processes and speed up your production line to deliver more items with less defects in less time

Reduced costs

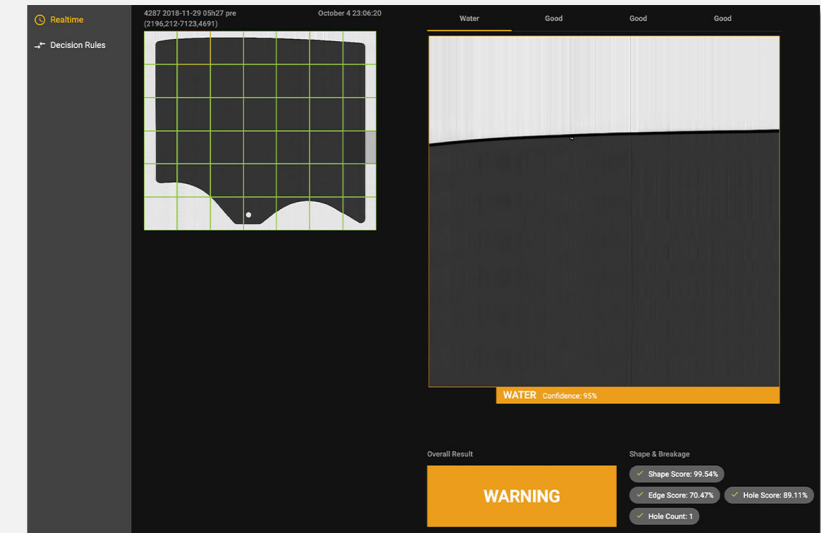
Integrate real-time defect detection into your production to reduce your overall inspection and deliver costs



The system is trained with labeling images that identify issues to look for



The system looks at the expected shape and detects a minute edge chip



The system also detects hard to find issues like water on the item surface

Optimize your production output

Solution built on Microsoft Azure

Aggregate, analyze and react in real-time



Integration to
upload solution
telemetry



Storage to scale
solutions without
latency



Visualization to
surface solution
insights



Analytics to
predict and
plan



Security to
protect
solution data

Process Improvement Specialist, Sage Automotive Interiors



There's just like a million benefits, honestly, to having a map of every roll of fabric we have that shows us where every defect is and the false images. It is so advantageous for us because we're able to run it through a frame faster and trust that it will only stop on the true defects. It is increasing efficiency, production rates, and quality and standards within the plant. With all this data, we are able to improve across the board.

Start improving your operation with IoT



Contact us to discuss how we can help:

info@mariner-usa.com

Learn more about our IoT and Azure solution:

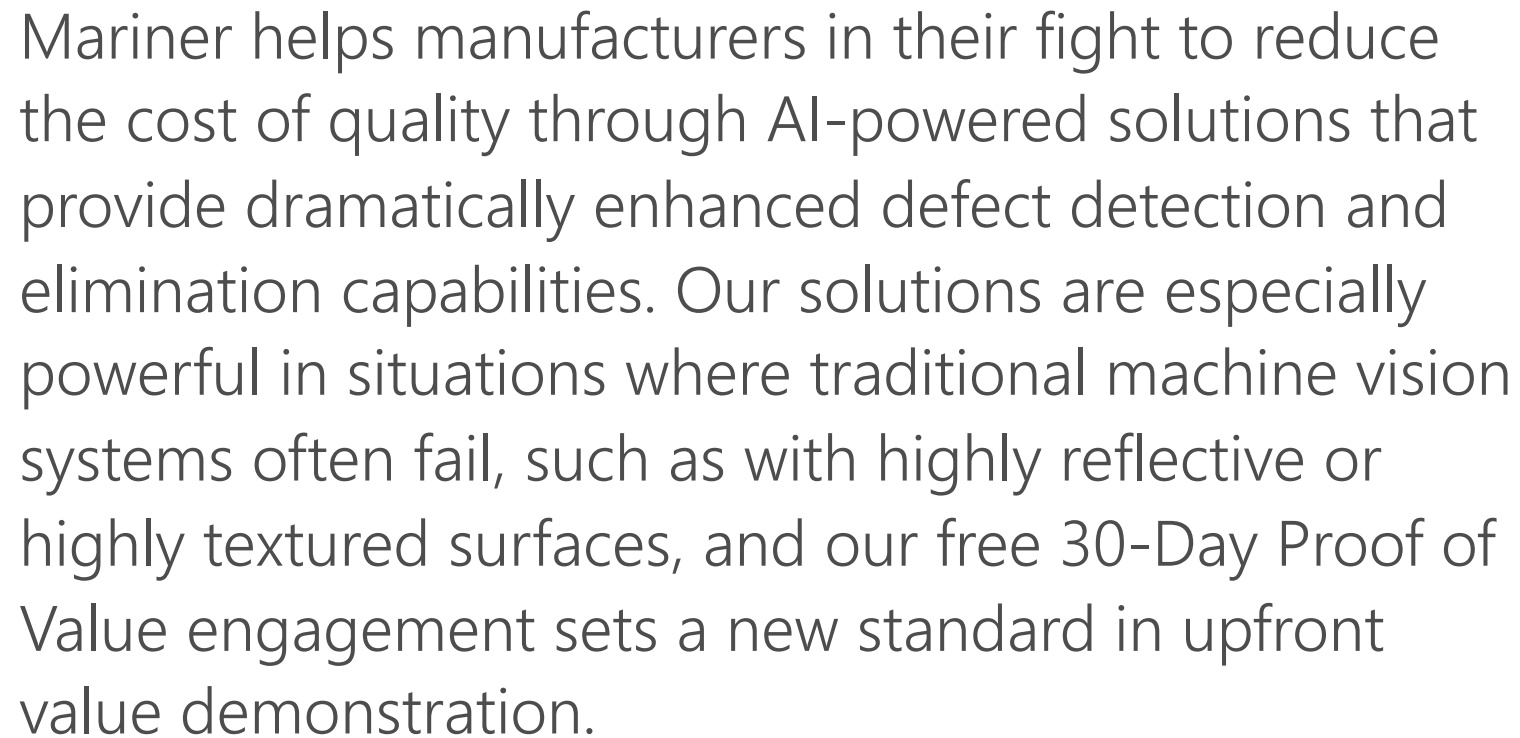
mariner-usa.com/solutions/spyglass-visual-inspection/



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About Mariner



Mariner helps manufacturers in their fight to reduce the cost of quality through AI-powered solutions that provide dramatically enhanced defect detection and elimination capabilities. Our solutions are especially powerful in situations where traditional machine vision systems often fail, such as with highly reflective or highly textured surfaces, and our free 30-Day Proof of Value engagement sets a new standard in upfront value demonstration.