

AUTOMATED QA FOR LEATHER SEATS

ABOUT RELIMETRICS

Relimetrics is part of the Industry 4.0 movement, helping companies to digitally transform. Relimetrics is a platform solution applicable to numerous industries, including automotive, manufacturing, electronics and construction. Our software uses computer vision and machine learning to automate inspections and perform predictive maintenance. This increases productivity, cuts costs and helps companies to innovate at a more rapid rate.

OUR CUSTOMER

Our customer is a global Tier I supplier of car seats. Meeting OEM standards for aesthetic quality requires a thorough quality inspection before seats are shipped to be installed in vehicles. Improving quality audit standards and creating full traceability of quality are key goals of its digitization strategy.

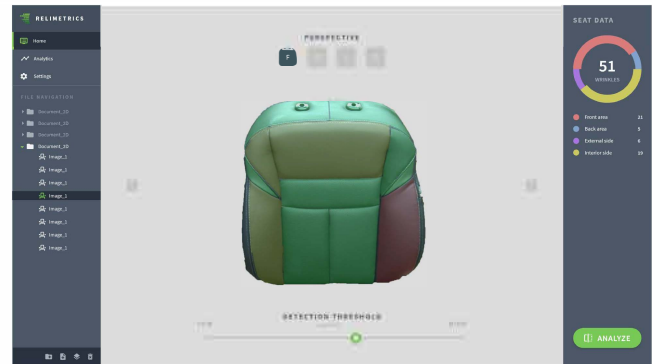


Figure shows Relimetrics user interface of car seat quality analysis based on requirements (e.g., thresholds) set by their OEM customer.

CHALLENGE

Today, quality inspections of car seats are done manually by operators, whose inspection is prone to error due to fatigue. Wrinkles and other car seat defects that are undetected or detected late lead to higher production costs due to rework and recalls.

There is high cost associated with each, and with increasing quality demands, it is imperative for our customer to create full traceability of quality in its assembly to reduce costs and improve quality.

SOLUTION

Relimetrics offers a full end-to-end system to digitize the quality audit of car seats.

Video streams acquired by the Relimetrics system feed into the Relimetrics software running at the edge, evaluating whether the assembled car seat has quality issues, such as wrinkles or other defects.

Images are also used as a record of quality, which is important for our customer's contractual obligations with their OEM customers.

IMPACT



10 Seconds
Inspection time for a whole seat



> 99.9%
Probability of Detection



20
of defect types detected