

Study: AI Can Speed Up Car Seat Quality Inspection By More Than 27 Times

Over the course of two years, EasyODM software was able to reduce car seat inspection time to 2.2 seconds performing at overall accuracy of 99%.

KAUNAS, LITHUANIA, August 16, 2023 /EINPresswire.com/ -- AI can significantly increase accuracy and reduce time for car seat quality inspection. [EasyODM](#) - a dedicated AI and Computer Vision software - was deployed at a production facility of a leading global car seat manufacturer. Over the course of two years, the software was able to reduce car seat inspection time to 2.2 seconds performing at overall accuracy of 99%.

With area scan cameras installed on the production line, the system was able to identify such manufacturing defects as wrinkles, scratches, staining and creases. Defects could be attributed to a certain seat area and - depending on the manufacturing workflow - defected seats can be forwarded for automated robotic or manual defect removal.



EasyODM software scans segments of the seat for defects, highlighting the affected regions in the image.

“Manual seat inspection usually takes around 60 seconds. By utilizing AI, this process can be reduced to only 2.2 seconds on average. While manual accurate for simple defects or low volume production, human-performed visual inspections remain monotonous, time-consuming, and susceptible to fatigue-caused errors. AI introduces uniformity in quality control, operating at and even exceeding human levels of accuracy” - says CEO of [EasyFlow](#) Simas Jokubauskas.

EasyODM can easily adapt to support different seat models, layouts, trims and finishes. A premium car brand can offer more than 40 versions of seats across different product lines. Legacy car seat quality inspection software was developed to only work with a particular seat model, meaning that it needed to be calibrated to support new products. It was also not tolerant

of manufacturing realities - for instance, that a seat for inspection could arrive slightly bent or a few centimeters off from the ideal inspection point.

EasyODM was developed to accommodate a diverse product portfolio and often imperfect manufacturing environment. At first the software identifies the seat in the image and isolates it from the background noise. Then - pixel by pixel - the software scans segments of the seat for defects, highlighting the affected regions in the image. The highlighted defects can then be forwarded for automated removal. After the elimination of defects, the software performs an additional quality check.

EasyODM was extensively tested at the facilities of one of the largest car seat manufacturers. With more than 250 manufacturing and assembly plants globally, the company provides services to leading automotive brands.



EasyODM can identify such manufacturing defects as wrinkles, scratches, staining and creases.

EasyODM was created by EasyFlow, an AI and Computer Vision software development house. EasyFlow develops AI applications for [retail](#), construction and manufacturing industries.

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*CEO of EasyFlow Simas
Jokubauskas*

“EasyODM software has a transformative value for automotive manufacturers. Its killer feature - ability to support multiple seat designs with little-to-none extra effort - provides tremendous ROI for the end clients. In a competitive fast-paced automotive market, this allows suppliers to quickly adjust to new trends and requirements, giving a significant competitive edge”, adds Simas Jokubauskas.

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EasyODM software is able to support multiple seat designs with little-to-none extra effort - provides tremendous ROI.

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