

Sticker Classification



Client

For over 30 years and more than 4000 employees, our client has been leading the creative revolution in printing and production for the automotive, electronics and appliance industry. They have been creating automotive dials, climate control overlays, exterior decals, logos, and badges for the world's leading manufacturers. And we have earned their trust through commitment to innovation, stringent quality checks and first-in-industry processes.

Problem Faced


Classification of stickers and manual separation of the stickers based on the variants, the classification was being done manually and the process was time consuming and required a lot of labour and still left a margin for error. So, they wanted to opt for a machine based automated solution.

Technology introduced by Qualitas Technologies

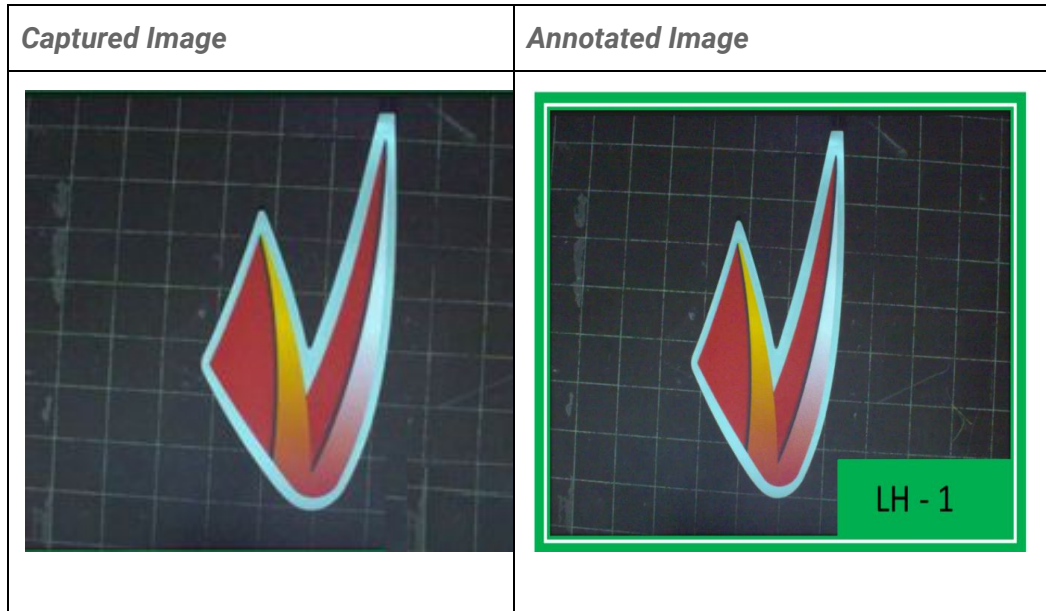
Artificial Intelligence & Deep Neural Network which helps Image processing in optimal decision making & generating accurate results. Compared to traditional classification algorithms, AI-based classification results in 100% accuracy. Not just more accurate, but it's very easy to maintain and update when new variants are added.

Solution

In the proposed system, the stickers appeared on the conveyor. The presence of the sticker gets sensed by the sensor and a trigger is generated for image acquisition.

- On image acquisition, the acquired image shall be processed and classification is done to identify the type of sticker.
 - The sticker gets displayed in the Qualitas System GUI.
 - Result (OK/NOT OK), is then sent to PLC by the DIO module present in the vision system controller.
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Images




Results

The proposed solution proved to be highly accurate and required results were achieved.

© Qualitas Technologies Pvt Ltd
53 Kempegowda Double Road, BEML Layout 5th Stage
Rajarajeshwarinagar, Bangalore 560098, INDIA

 <http://www.qualitastech.com>

 +91 (80) 4709-1438