

Character Identification



Client

Our client is an integrated pharmaceutical topical organization dedicated to only semisolid formulations since 19+ years. Their focus is to consistently excel in manufacturing and development of topical formulations which touches millions of patients globally. They help their customers serve global markets with innovative, technology driven & cost effective topical products of the highest quality.


Problem Faced

- Online reading of printed characters on Tube and Carton.
- To remove manual verification they wanted an automated solution.



Technology introduced by Qualitas Technologies

Artificial Intelligence & Deep Neural Network in Image processing helps in optimal decision making & generating accurate results. Compared to traditional OCR algorithms, AI-based OCR is far more accurate, resulting in 100% accuracy. Not only is it more accurate, but it's very easy to maintain and update when new characters and letters need to be added to the recognizable character list.

Solution

- In the proposed system, the tubes would come on the rotary conveyor. The presence of the tube would be sensed by the sensor and a trigger was generated for image acquisition.
 - On image acquisition, the acquired image was processed and OCR operation was performed to read the characters printed on the tube.
 - The read characters are displayed in the Qualitas System GUI.
 - Result (OK/NOK), was be sent to PLC by the DIO module present in the vision system controller.
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Images

Captured Image	Annotated Image
	

Results

The installed system works perfectly.

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