

Refrigerator OQC Report Generation



Client

Our client is one of the largest Korean multi-industry companies that produces electronics, chemicals, and telecommunications products in over 80 countries. They control a big portion of

the electronics market worldwide and since 2008, they remain one of the world's top 5 LCD television manufacturers. The company has 128 operations worldwide, employing 83,000 people.

Problem Faced

Automated OQC Check Sheet/Report Generation which consists of combination of checkpoints checked using:

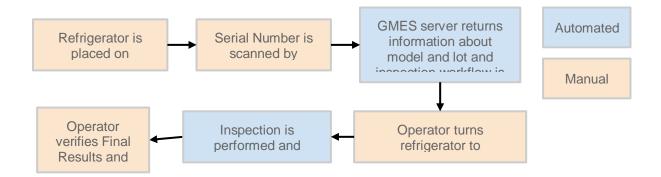
- Machine Vision: Printing/Component Presence/Absence inspection.
- Barcode Verification: Verify the Barcodes present in Carton Box and Machine and whether it matches the expected barcode.
- Manual (Visual) Inspection Manual Entry to be made in Software.

The current process was done manually since it was time-consuming, they wanted to minimize the inspection time and that's why they opted for the vision system.

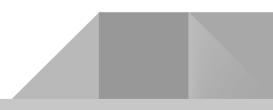
Technology introduced by Qualitas Technologies

Machine vision technology helps us to inspect the puff leak in the refrigerator. We have used 'AI' software which is rule-based image processing software developed by Teledyne dalsa. Here, we used two 1.3 MP cameras.Industrial PC's with POE cards and DIOs were deployed to reduce the image processing time.

Process Flow:



Solution



- In the assembly line the refrigerator is placed on the turntable and the serial number is scanned by the operator.
- Upon scanning the serial number, model number and other details are retrieved from the system.
- Upon receiving necessary details, the operator turns the refrigerator in the appropriate position and inspects the product, based on which the Good or Not Good results are generated.
- Upon completion of the examination, the operator verifies the final results and saves the report.

Images

Captured Image	Annotated Image
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Results

The inspection system was put in place and successfully met the expectations of the customer.

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