

C.L.I.C

Carton Label Integrity Check

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Project Description

The design, engineering and preliminary testing of an automatable carton label integrity checking system to be implemented in line on a factory floor.

Project Content

The preliminary objective of this project was to assemble a prototype station as a proof of concept and to gauge the general viability of available technologies for factory conditions, establishing what would be the limiting factors and constraints.

Project Outcome

In tests performed in conjunction with the inventory system and stations, the label checking system was able to consistently achieve the stated project goals, with the exception of small character checks.

Due to the inconsistent presentation of the cartons, in particular, small variable text on some labels applied to cartons that were bulging due to over packing or weak carton wall size were not able to be read consistently.

However the overall performance was satisfactory and it was decided to further fund this venture.

Benefit for Industry

The successful project outcome shows that autonomous carton verification is a technology and capability that can be applied to a production line. With further refinements, the technology has the possibility of reaching the operational speeds of meat processors. This technology would provide an added pillar of control in an automated and live manner. As a result, it will be a powerful tool for quality assurance and compliance purposes throughout the processing plant and industry.