CUMULUS

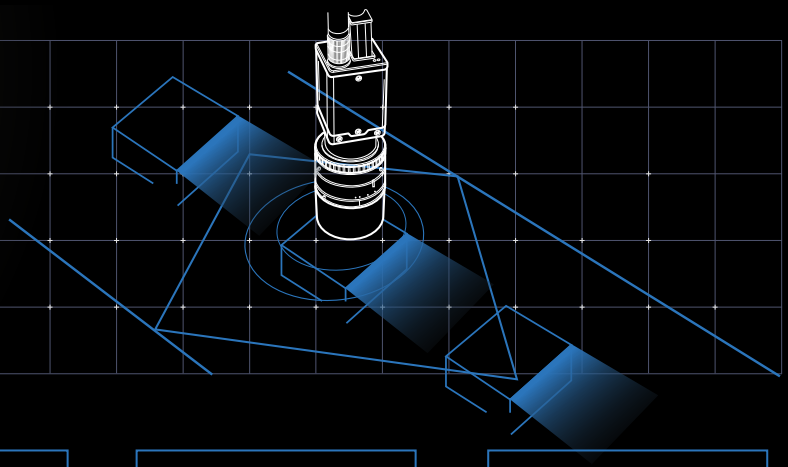
Vision-based quality inspection of a single object.

CUMULUS is our solution designed for the inspection of single objects on the production line.
Each product undergoes quality analysis.
Machine vision systems from the **CUMULUS** family ensure full real-time inspection.

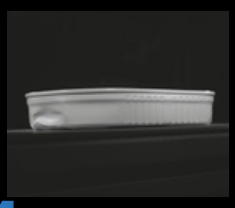
Machine vision systems from the CUMULUS family:

inspect single objects,	inspect several dozen references simultaneously,
are installed on the production line (full integration with the existing line),	generate reports,
maintain high performance even at high speeds,	archive data,
do not interrupt the production process,	can be integrated with a rejector.

The system is stationary, while individual objects move along the production line at high speed.

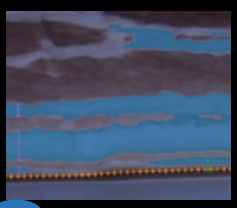


Our implementations



1 **inspection of cans**
throughput: 300 cans/min,
detection of several types of defects

2 **inspection of tires**
line speed: 1 m/s,
image analysis time: 110 ms



3 **classification of meat and fish**
130 pcs/min,
IP69K protection rating

4 **inspection of bed frames**
150 inspected features in 15 s,
0.05 mm measurement accuracy

SCANWAY.

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light-written technology.

Scanway has developed a proprietary suite of four solutions for comprehensive machine vision inspection in industry: CUMULUS, STRATUS, NIMBUS, CIRRUS.
Built to provide holistic management of the entire optical data chain:
ACQUISITION – PROCESSING – ANALYSIS – PREDICTION
from properly acquired image data to accurate predictions.
Scanway. One system. Four solutions:
CUMULUS, STRATUS, NIMBUS, CIRRUS.
Infinite possibilities in image analysis.

Scanway machine vision systems:

can observe objects while simultaneously inspecting several hundred of their diverse features,	built on ML (Machine Learning) and DL (Deep Learning) engines – by leveraging AI we optimize machine vision systems so they can autonomously learn to detect new defects,
feature a user-friendly and intuitive HMI panel	operate continuously in 24/7 mode,
non-invasive data acquisition methods,	automatically generate reports,
ensure comprehensive inspection,	eliminate losses in production.

Other Scanway solutions:

vision-based quality inspection of a single object

CUMULUS

vision-based quality inspection of a web surface

STRARUS

vision-based inspection of changes over large areas

CIRRUS

56 km/h
the fastest moving object we inspect

5 µm
the smallest defect we identify

250
the number of references for a single application

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