**Meeting global quality standards**
Consistent paint quality with high-performance inspection

**Flexible & easy handling**
Compact hardware for simplified set up and great coverage

**Cost optimization for fast ROI**
High degree of automation

# Painted Part Vision

Automated paint inspection for car exterior parts

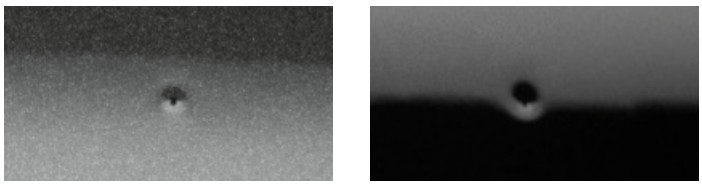
ISRA VISION
Part of Atlas Copco Group

# Painted Part Vision

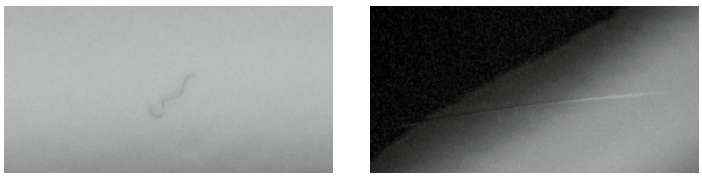
Painted Part Vision is an automated system designed to inspect the surfaces of painted automotive trim parts like bumpers, spoilers, and panels.

Mounted on a robot, the Paintscan Compact sensor head moves along the surface of the parts as it scans. The powerful software detects and classifies surface defects, such as inclusions and craters. It streamlines rework by evaluating the severity and significance of each defect, ensuring efficient and precise quality assurance.

## Detection examples, classified by AI:



***Relevant defects:*** Inclusion,crater



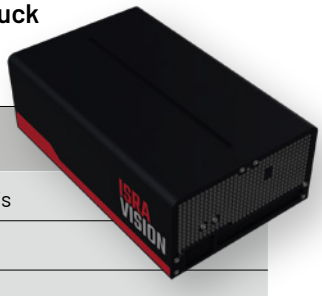
***Irrelevant defects:*** Dust fiber, cast seam

## Applications

- **Front & rear bumpers**
- **Spoilers**
- **Panels**

## Markets

- **Automotive**
- **LCV**
- **Truck**

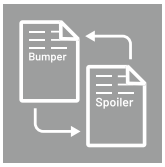



| Paintscan Compact | |
|---|---|
| Max. robot speed | 800 mm/s |
| Scan frequency | 320 Hz |
| Operating distance / standoff | 135 mm |
| FOV | 130 × 40 × 35 mm³ |
| Cameras | 2 |
| Camera resolution | 0.08 mm/pix |
| Dimensions | 350 × 220 × 120 mm³ |
| Weight | approx. 5.5 kg |
| Storage / operating temperature | 5 °C – 40 °C |
| Protection class | IP30 |

## KEY FEATURES

- **Multi-mode LED line**
  High detection and classification performance
- **Continuous scanning**
  800 mm/sec movement
- **Compact design**
  for maximum component coverage of up to 98 %
- **Highest inspection performance with AI-based system:**
  - ≥ 98.5 % detection rate
  - ≥ 90 % classification rate for typical defects
  - <1 % pseudo errors

## SPECIAL FEATURES

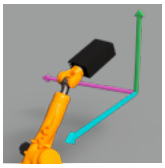



### Fast model change

Efficient management of of new models, ensuring smooth operation and consistent quality.

### Great reach

The compact design ensures reliable inspection even in tight or hard-to-reach areas.



### Compensation of position deviations

Optional position measurement eliminates the need for manual adjustments and ensures complete inspection, even with position deviations on the skid.

### Evaluation and reporting

Quality documentation and process statistics help to identify potential optimizations.

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