AUTOMOBILE
CONTROL OF ELECTROMECHANICAL SYSTEMS

CHALLENGES

For a subcontractor of the automobile industry, ensuring the quality of electromechanical systems means **respecting many geometrical and assembly specifications**.
Control of manufacturing is both necessary and complex. It also has to fit to large scale production needs:

- To avoid time loss, uncertainty, and high cost of manual control
- To improve the traceability of control data and the continuity of product quality

SOLUTION

INSPEX OUT is a control solution using industrial vision. It is adapted to electromechanical systems, and is equipped with:

- Automation for the conveying, gripping, and handling of the parts
- Two monochromatic CMOS cameras with coaxial lighting
- Imaging software for dimensions measurement and the identification of defects:
  - Assembly : absence or wrong position of connectors
  - Finishing : burr of the plastic overmolding on the connectors

BENEFITS

Production time and cost savings

- Product control takes seconds, and is significantly faster than manual control
- The solution can control various models of electromechanical systems

Digitalization of production (Smart industry)

- Reduction of the number of non-compliant parts delivered

INSPEX OUT

VERSATILE CONTROL

- Surface defects (cracks, scratches, deformation, etc), incorrect assemblies (absence or wrong positioning of screws, connectors, etc), finish (color, burr, etc), dimensions, foreign objects
- On mono or multi materials parts and systems, with various sizes and shapes

FAST AND EASY INSPECTION

- Achieved in a few seconds, user independent
- Non-destructive, non-intrusive, adapted to online control

AUTOMATED OPTIONS

Loading and unloading of parts, camera angles, sorting and marking, etc