



# Neadvance

**Neadvance develops intelligent computer vision systems applied to quality control and automation of industrial processes. The knowledge and experience gained in modernising various industrial sectors, medical imaging and smart cities, enable Neadvance to make its solutions available in nine countries and three continents.**

Neadvance intelligent systems include 2D and 3D dimensional and position analysis; colour and texture identification, measurement and recognition; character

and pattern reading; defect detection and classification and robot guidance in several industrial processes.

## ACTIVITY SECTORS



**INDUSTRY**



**AUTOMOTIVE**



**AGRIBUSINESS**



**SMART CITIES**



**MEDICAL IMAGING**

## THE ADDED VALUE OF NEADVANCE PRODUCTS

- Flexibility and robustness
- Durability. The products meet the customers' needs and evolve according to new challenges presented
- Possibility of acquiring more knowledge and control over the production processes, improving relevant actions
- Proprietary application library
- Constantly developing software with the latest innovations in the sector
- Strong connection with knowledge clusters
- Sound knowledge of production / shop floor processes
- Compatibility with multiple hardware of different technologies
- With a single Neadvance solution it is possible to integrate and coordinate several functions simultaneously, overcoming time and space constraints in the optimisation of production processes.

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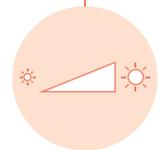
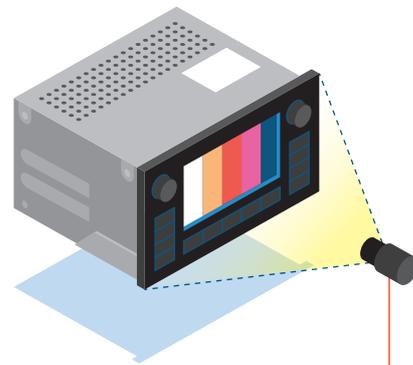
# INSPECTION SYSTEM FOR AUTOMOTIVE MULTIMEDIA EQUIPMENT FRONT COVERS



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Car radios and navigation units offer experiences beyond the audio, such as video, telecommunication and Internet features.

The increasing complexity and rapid growth of functionalities in the automotive industry, together with the current demand for greater comfort and safety in vehicles, pose new challenges to electronic equipment suppliers.



## DESCRIPTION

The system inspects the front covers of automotive multimedia equipment through machine vision techniques, using high-resolution cameras and innovative image processing algorithms. It assesses a set of image characteristics, allowing to measure, check and monitor all the visual aspects of the equipment, namely:

- Key screen printing

- Key lighting
- Display luminous intensity
- Display pattern configuration
- Lighting on CD slot
- Lighting on SD card slot
- Operability of video auxiliary inputs

## FEATURES

- Cycle time: 30 s
- System optical resolution: 15M Pixels
- Measurement resolution: 50  $\mu\text{m}$  / pixel
- Inspection Area: 300X200 mm

- System dimension (LxWxH): 1200X1400x2000 mm
- Communication with the device under test through specific protocol
- Factory-calibrated system
- Generation of detailed inspection reports and statistics

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