

INSPECTION SYSTEM FOR AUTOMOTIVE MULTIMEDIA EQUIPMENT

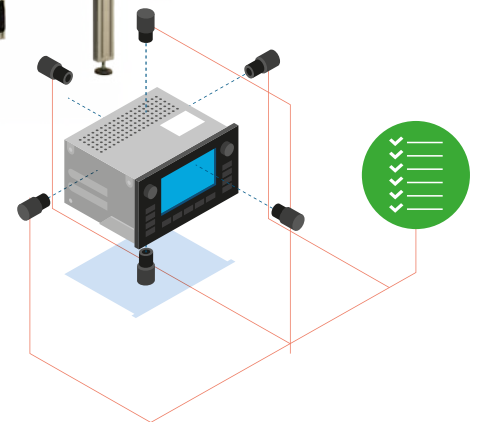


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Car radios, navigation units and the most recent instrument panels offer an experience far beyond the classic hand pointers and audio.

This new equipment offers an experience beyond the classic audio, adding video, display, entertainment, telecommunication and Internet features.

The ever-growing number of features leads to increased complexity in mechanical and electronic components. Therefore, it is crucial to ensure that all devices reach the client in perfect condition and functioning according to specifications.



DESCRIPTION

The system inspects all types 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 mechanical and electronic aspects of the equipment, namely:

- Labels and bar codes
- Antenna connectors (inclination and depth of inner pin)

- Main connector pins (presence, inclination and depth)
- Screws and springs
- Clips, pins and other mounting parts
- Fuse value identification and reading
- Front panel buttons and keys

FEATURES

- Cycle time: less than 16 s
- System optical resolution: from 60M Pixels
- Measurement resolution: 12 μm / pixel
- Base inspection area: 300 mm x 160 mm x 120 mm

- System dimension (LxWxH): 1200x1400x2000mm
- Three-dimensional inspection
- 9 cameras positioned around the inspection area
- Generation of detailed inspection reports

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