InfraSCAN 🕷

Solution for automated IRT/NDT thermography Locating defects in production

Made In (QC) Canada





Top: Inspection of a jet engine casing. Left: Resulting flattened view image of the casing, displaying impacts.

Notes: PLC and actuator for head movement (Robot, CNC, XY, or gantry) are not included in this solution. Can also function in a stationary setup over a moving conveyor.













IR Camera in linescan mode

IRT Controller to interface with the PLC

IRT Bot to manage the inspections

IR Stitch to merge multiple images

Radiative head 30 to 60 cm wide with IR camera

Induction controller for inductive head





The inspection head is moved over the part to inspect using an actuator (not provided), such as a robot, a simple CNC, or a gantry. Alternatively, the inspection head can remain fixed if the parts are moving, for example, for inline inspection on conveyors.

The inspection system is 27 cm wide and operates at a speed of 12.5 mm/sec (0.2 m²/min) for 3-4 mm thick composite materials, up to 100 mm/sec (1.6 m²/min) for sub-millimeter thickness materials. Additionally, a 66 cm wide inspection head is available. The length of inspection or image is unlimited, as it is a continuous process.

The InfraSCAN solution is ideal:

- for inspecting large or long parts, whether flat or cylindrical,
- for inspecting a high volume of parts in series,
- when multiple plants need to conduct inspections with the same standard,
- when inspection speed is crucial with a high Probability of Detection (POD),
- for inline inspection over a conveyor.

Specifications for the radiative, 27 cm wide model Linescan head: Main arm length: extruded aluminum, 50 cm long * 45 mm * 90 mm. Overall dimensions when mounted: 5.0 kg, 65 cm height x 37 cm wide x 18 cm thick without the camera.

The radiative heating head can be swapped for an inductive heating head







Features











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