

Photothermal Tomography 3D V-ROX

Quality assurance is expensive, takes a lot of time and causes damage to the material?

Time to rethink old concepts!

3D V-ROX: next generation IR-testing



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“Non-contact, fast & cost effective NDT”

Cutting Edge Tech

The voidsy 3D V-ROX is the first compact and intelligent photothermal tomography system that enables 3D imaging of hidden material and structural defects.



Cost Reduction

The system is up to 80% faster in use and more cost-effective than conventional testing methods in many industries. The compact design enables straightforward automation.



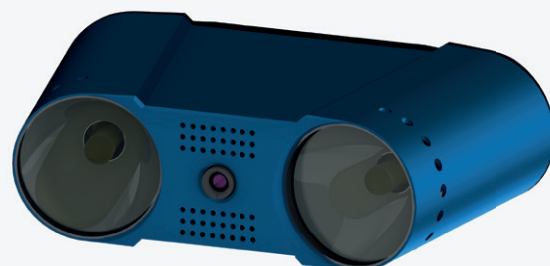
Production Optimization

The embedded computation unit and a cutting-edge signal processing technique enable the first inline-capable thermal tomography of highly integrated components.



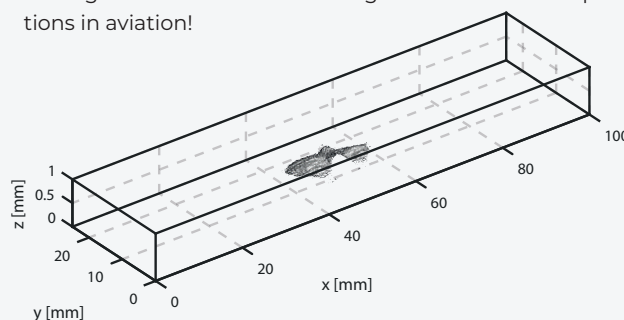
Hard Facts

- **Compact Sensor:** 423 mm x 270 mm x 130 mm
- **Spatial/Depth resolution:** up to 660/100 μm
- **Inspection area:** up to 400 mm x 300 mm
- **Overall weight:** <5 kg
- **Power supply:**
 - 2.3 kW @ 230V/50Hz or
 - 4.2 kW @ 400V/50Hz
- **Connections:**
 - 1GBase-T IEEE 802.3ab
 - Auxiliary Connector



Thermal Tomography

- **Case Study - Impact damage:** The damage of composite materials caused by impact events reduces dramatically the structural integrity of safety-critical components. This damage often is not visible during visual in-service inspections in aviation!



- **RESULT:** 3D defect visualization after impact damage in carbon fibre reinforced plastics, for straightforward delamination detection



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