

Non-Destructive Testing Solution for Composite Materials and Structures



OPTRION

SHEAROGRAPHY NDT SYSTEMS



DeFinder® Camera



DeFinder®

Applications

- Materials: composites and hybrid materials
- Maintenance: inspection of large structures
- Production: in-line and real-time quality control
- Space, Aeronautics, Automotive, Defense, Nautical, Sport gear, Wind Turbines, Construction, Oil & Gas.

Shearography and Thermography Features

- Full field and contactless method
- Real-time and/or in-line automated inspection
- Detection of various defects: wrinkling, foreign objects, delaminations, kissing bonds, disbonds, impact damages, repair defects and others.
- Certified NDT method: NAS 410 - ASNT - ASTM E2581 - EN 4179

Camera Specifications

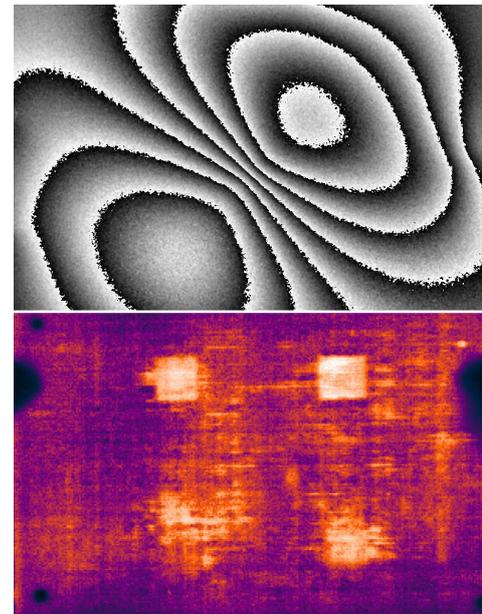
- Dimensions (LxHxW): 300x150x105 mm
- Weight: 5.2 kg (with IR)
- Aircraft cabin compatible dimensions and weight
- Light source: laser 200 mW SLM @ 532 nm (green) - Class 1M
- CMOS Sensor: GiGE camera (HxV) 2464x2056 pixels - FOV 17° - 12 bit resolution
- Thermal sensor: 640x480 px - 55 mK - 50 fps
- Power: 85 - 264 VAC / 50-60 Hz 60W
- Laser telemeter

Software Specifications

- Excitation source control
- Measurement and adjustment of test parameters:
 - Camera / sample distance
 - Sample stimulation
 - Shear angle and amplitude
 - Focus, reference, ISO
- Advanced postprocessing
- Remote control for distant support and/or expertise
- Customizable software
- Remote database for back up & further expertise

Patented application

Specifications as of September 1, 2020.
Subject to change without notice.



OPTRION, a spin-off of Centre Spatial de Liège and a branch of V2i, is a company specialized in optical metrology and non-destructive testing for composite material and structures.