Non-Destructive Testing Solution for Composite Materials and Structures

OPTRION

SHEAROGRAPHY NDT SYSTEMS

DeFinder® Camera

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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

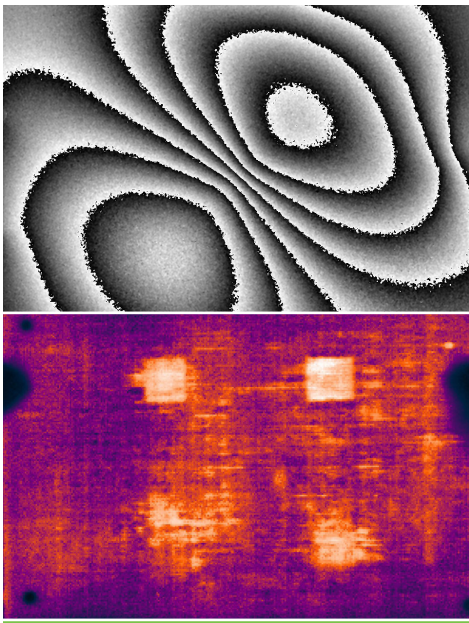
- Dimensions (LxHxW): 300x150x105 mm
- Weight: 5.2 kg (with IR)
- Aircraft cabin compatible dimensions and weight
- Light source: laser 200 mW SLM @ 532 nm (green) – Class 1M
- CMOS Sensor: GiGE camera (HxV) 2464×2056 pixels – FOV 17° - 12 bit resolution
- Thermal sensor: 640x480 px – 55 mK – 50 fps
- 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.



CONTACT:
OPTRION S.A.
Avenue du Pré-Aily, 25
Liège Science Park
B-4031 LIEGE - BELGIUM
T. +32 (0)4 287 10 70
F. +32 (0)4 287 10 71
info@optrion.be
www.optrion.be

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.