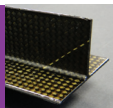


MATERIALS



Carbon Fiber Laminate



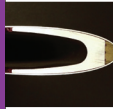
Metal Honeycomb



Foam Cores



Composites



Metal-Metal Bonds



COPV

INDUSTRIES



Aerospace



Wind Power



Marine



Rail



Automotive

DETECT, MEASURE & LOCATE



- Delaminations
- Disbonds
- Impact damage
- Repair defects
- Porosity
- Cracks
- Fiber waves or wrinkles

Advanced NDT Systems



LTI-2100M

Compact Digital Shearography Camera



Portability Meets Power and Versatility

Designed for fast and accurate nondestructive inspection of structures, components and repairs, the portable LTI-2100M features:

- **Compact, rugged shearography camera**
Lightweight and easy to use.
- **Exceptional shearography image quality**
12-bit hi-definition sensor and diffraction limited optics.
- **Powerful defect analysis tools**
Easily programmable image processing macros in LaserNDT 1.8.0 Software Suite for improved operator image analysis and reporting.
- **Versatile camera**
Easily mounts to scan gantries, robots, crawlers, tripods, vacuum attachments, and customer defined test configurations.
- **Test configuration**
All Mode Operation: Thermal, Vacuum, Vibration and Pressure Stressing.
- **Options**
Test Part Stressing Systems, Test Chambers, Gantries, Workstations, Robotic Scanners and Lasers to 2 Watts.

LTI-2100M

Compact Digital Shearography Camera

System includes:

Shear camera with a built-in 100 mw laser light source (Class IIIa), image processing computer, interconnect cables, tripod, transit case and Operator and Applications Manual

Optional equipment:

Thermal Stress Systems TES-50 (500W) or TES-200 (2kW) with software control and adjustable radiant beam spread

Specifications:

<u>Dimensions</u>	(L x W x H)
Shear Camera	12.0 x 4.0 x 5.5 in / 30.5 x 10.2 x 14.0 cm
<u>Weight</u>	
Shear Camera	6.2 lbs. / 2.8 kg.
<u>Sensor</u>	1628 x 1236 12 bit/30 fps
<u>Power</u>	100 to 240 VAC, 50/60 Hz 20 amps maximum (with TES-200)
<u>Operation Modes</u>	<ul style="list-style-type: none">• Shearography testing with Thermal, Vibration, Vacuum or Mechanical test part stressing• Analysis and Measurement• Defect Location on test part• Image Integration and Z axis measurement
<u>Shear Vector</u>	Fully adjustable Shear Vector: 0-360°/0-10°
<u>Image Calibration</u>	Manual and Auto Cal., real-time readout of FOV, Scale, Shear Vector
<u>Laser Light Source</u>	100 mw, Class IIIa Laser Product
<u>System Software</u>	LaserNDT 1.8.0

Patents:

The LTI-2100 is manufactured in the USA under US and foreign patents 6,717,688; 5,257,088; 5,094,528. Additional patents pending. Specifications are subject to change.

Laser Shearography Certifications:

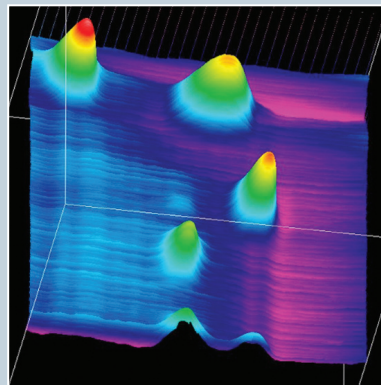
AIA NAS 410, ASNT SNT-TC-1A, ASTM E2581-07, EN 4179



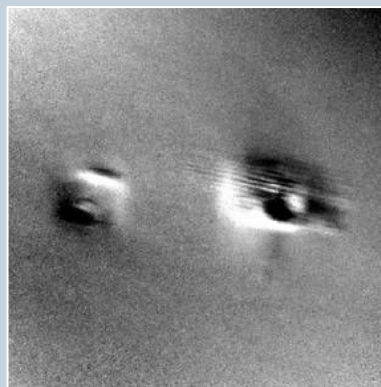
Laser Technology, Inc.
1055 West Germantown Pike
Norristown, PA 19403
+(610) 631-5043
www.LaserNDT.com



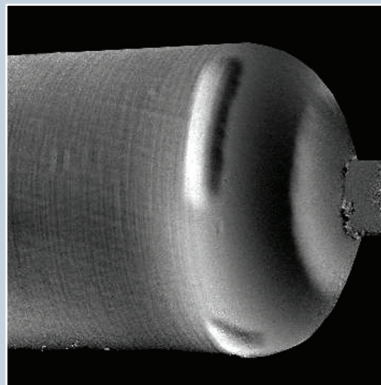
Inspection Applications



Disbonds in metal braze bonded coolant channels. Field of View = 10 x 12 in.



Non-visible impact damage on a carbon fiber laminate aircraft wing panel. Field of View = 8 x 8 in.



COPV fiber bridging defects.
Tank diameter = 6.4 in.