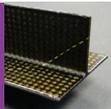


MATERIALS



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

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



#### 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:

Dimensions (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

Weight  
Shear Camera 6.2 lbs. / 2.8 kg.

Sensor 1628 x 1236 12 bit/30 fps

Power 100 to 240 VAC, 50/60 Hz  
20 amps maximum (with TES-200)

Operation Modes

- 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

Shear Vector Fully adjustable Shear Vector: 0-360°/0-10°

Image Calibration Manual and Auto Cal., real-time readout of FOV, Scale, Shear Vector

Laser Light Source 100 mw, Class IIIa Laser Product

System Software LaserNDT 1.8.0

#### Patents:

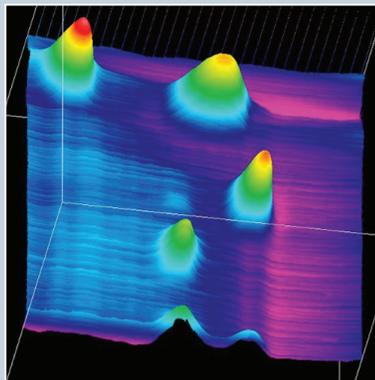
The LTI-2100 is manufactured in the USA under US and foreign patents 6,717,688; 5,257,088; 5,094,528. Additional patents pending. Specifications are subject to change.

#### Laser Shearography Certifications:

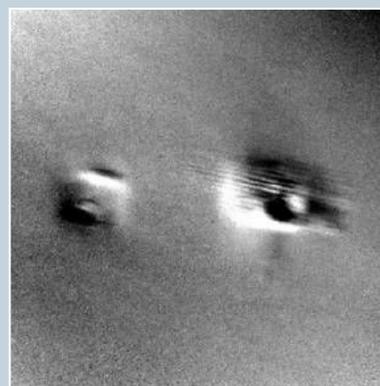
AIA NAS 410, ASNT SNT-TC-1A, ASTM E2581-07, EN 4179



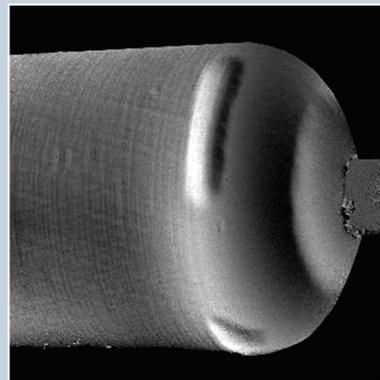
### Inspection Applications



**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.