

Laser Technology Inc.

Advanced NDT Systems

Model LTI-5100HD

For the Ultimate in High Definition Shearography NDT





LTI-5100HD Control Console with optional TES-200 Thermal Stress and Model 22 Pressure Stress Units

System Features

- Remote Control of all Camera functions
- Ultra High Definition Shearography Imaging
- Continuous Real-Time Phase Map Mode
- Digital, Phase Step and Phase Reversal Realtime Subtraction Modes
- User macro routines
- Use on Base, Tripod Lift or Scan Gantry
- Powerful image Processing Suite
- Laser Spot Projector for Precision Remote Image Calibration to Requirements of ASTM E2581-15
- Portable or Gantry Mount
- Four Models:

Benefits

- Large Area Inspection
- Ultra High Through-put
- Real-Time Imaging of:
 - -Delaminations
 - Disbonds
 - Damage
- Large increase in manufacturing productivity

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Model LTI-5100 HD Digital All Mode Shearography Camera System

Technical Description:

The LTI-5100HD offers the ultimate in shearography NDT performance. The 5100HD operates in all modes, including continuous real-time phase maps, real time subtraction, Phase Stepping and Phase Reversal. The 5100HD has built in laser spot projection for fast precision calibration of shearography data. In addition, the 5100HD provides complete remote control of all camera functions including camera pan, tilt, zoom, iris, focus, shear vector as well as laser beam X/Y steering and Beam expansion. The LTI-5100HD consists of the SC-5100HD Digital Shearography Camera with built-in or external laser, Interface Console, and the IP-5100HD Image Processing Computer (Laptop style work station or desktop work station), all interconnecting cables, 2 Manuals and a One Year Warranty.

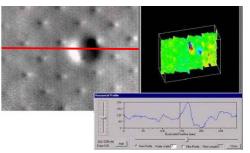
Optional Equipment:

- Tripod and Adapter Plate MECAD- 100, 200 Vibration Stress Units
- ACAD-100, 200 Acoustic Stress Units TES-200, 400 Thermal Stress Unit Vacuum Windows Model 20 COPV Pressure Control Unit
- LTI-9000 Vacuum Test Chambers Gantry and Mobile Lift Systems
- Robotic Inspection Systems

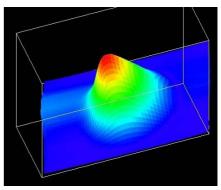
Training:

LTI offers Shearography Certification Courses to ASNT SNT-TC1A. Please check our website for the latest schedule.

Shear Camera	Digital Phase Stepping Shearography Camera, real time mode
Stress Methods	All Mode: Thermal, Vacuum, Vibration, Microwave
Laser	Built in 150mW @532nm (Green) Laser Class Illa,
	300 and 500mw. @532nm rated Class IIIb.
CCD Resolution	1392x1200 pixels, 12 Bit CCD Sensor
Lens Zoom	F1.0, 8-48 mm w/2x Converter (effective performance
	F4, 16)
Shear Optic Placement	Shear Optics located in front of imaging lens, which
·	gives the absolute best image quality with no distortion to
	the shearography image
Shear Angle	Continuously adjustable 0º - 5º
Shear Direction	Continuously adjustable 0º - 360º
Field of View	1250x920 mm; up to 3x3 m ² (with external laser)
Measuring Sensitivity	0.02 μm/shear distance
Camera Remote	Camera Lens: Iris, Focus, Zoom,
Control Features	Shear Vector: X/Y Shear 0-5º, 0-360º
	Laser: X/Y Steer, Beam Expansion
	Motion: (Pan350°, Tilt 120°)
	Laser Spot Projector for Precision Image Calibration
Manual Adjustments:	Laser Shutter on/off



LTI-5100 has Powerful Image Analysis tools for precision defect measurements.



3-D Quantitative Deformation Analysis



LTI-5100HD inspection of aircraft radome for damage and disbonds with optional TES-200 Thermal Stress Unit.

The LTI-5100HD is manufactured in the USA under US and foreign patents. 6,717,681; 5,257,088; 5,094,528 Additional patents applied and Pending. Specifications are subject to change without notice. 3/2015



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