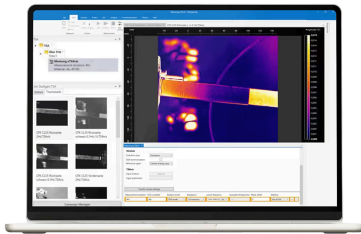


DISPLAYING 7 TSAVIS

Software for thermal stress analysis using lock-in thermography



Visualize stress distributions and dissipation processes without contact. Displaying 7 TSAvis is a specialized software module for thermal stress analysis (TSA) under dynamic loading. The software evaluates minute temperature-related signal changes synchronously with the external load, enabling visualization of stress distributions, local stress concentrations and dissipative processes within the material.

In addition to real-time lock-in analysis, TSAvis supports multi-harmonic evaluation, ROI statistics, profiles and isotherms. Typical applications range from crack initiation and propagation analysis to adhesive and joint inspection, composite material evaluation and validation of numerical simulation results.

YOUR ADVANTAGES AT A GLANCE

Non-contact stress analysis: Thermally induced signal changes reveal stress distributions under dynamic loading

Real-time lock-in evaluation: Measurement data is acquired synchronously with the load source and analyzed directly

Multi-harmonic analysis: Evaluation up to the 4th harmonic supports detailed investigation of complex loading conditions

Comprehensive image analysis: Isotherms, histograms, profiles and ROI statistics enable targeted evaluation of measurement data

Flexible camera support: Compatible with various cooled and uncooled infrared cameras

Fully documented measurements: Lossless video recording and metadata support evaluation, comparison and archiving

TECHNICAL INFORMATION

SOFTWARE:	DisplayImg 7 TSAvis Elements
METHOD:	Thermal stress analysis (TSA) using lock-in thermography
EVALUATION:	Stress and dissipation analysis
HARMONIC ANALYSIS:	Up to 4th harmonic
ANALYSIS FUNCTIONS:	Isotherms, histograms, profiles and ROI statistics
SYNCHRONIZATION:	Analog lock-in interfaces to external load source
DEVICE CONTROL:	Camera and ESG signal generator
VIDEO RECORDING:	Lossless with metadata storage
CAMERA COMPATIBILITY:	FLIR SC5000 / SC7000 / X-Series / A-Series, IRCAM, Telops, Noxant NoxCAM
OPERATING SYSTEM:	Windows 7 / 8 / 10, 64 bit
PROCESSOR:	Intel Core i5 or i7 with SSE4
MEMORY:	Min. 8 GB

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