

Software for thermographic testing

LabIR® NDT



► Software features:

TDS evaluation (Time Derivation of The Signal), time approximation of temperature flow including graph plotting

Pulse-Phase evaluation

DTSA evaluation (dynamic thermographic signal analysis)

Quantitative evaluation on thermograms and defectograms using the CNR (Contrast To Noise Ratio)

Transparency of a thermogram or defectogram and blending with a photos

Transformation and pixel to mm conversion for a precise positioning in a thermogram

Thermographic analysis at cyclic loading (environment for adding time notes to measured data and thermal gradient compensation)

Filter application (reference frame, edge detection)

On the request, we are able to add additional features

► Software options and settings:

Data recording and saving

- camera settings panel
- thermographic sequence recording possibility
- the ability to store and load a sequence
- the ability to save and open projects
- compatible files: seq, fff, img

Export of images, sequences, temperatures, graphs and defectograms

- defectogram/thermogram as an image (JPG, PNG), a data file (CSV), a thermogram as a series of images (JPG, PNG) or video (AVI)
- a separate thermogram or a thermogram with analyses
- export images from the selected time interval
- export sequences in the form of sequences, videos or images
- export defectograms, graphs and temperatures from the whole thermogram or from a selected region to a CSV data file
- export time-temperature progress of a selected region (for min., max. and average temperatures)
- export the selected time interval

Analyses options

- selection of basic and extended regions: point, line, polyline, rectangle, ellipse, polygon, magic wand
- displaying of locations of minimum and maximum temperature
- displaying of the temperature according to the cursor position

- measurement of a minimum, maximum, average and standard deviation
- calculation of a length or area of the selected region
- export temperatures and analyses results from the selected region to a data file (including pixel coordinates)

Graph options

- display the temperature chart in course of time of an analysis
- display the temperature profile on a line
- scale settings
- floating window (display the last time interval in the graph)

Other software options

- setting the temperature range
- setting the thermographic parameters
- magic wand: automatic region selection based on color/contrast difference with an adjustable tolerance

System requirements

- OS: Windows 7 and newer
- memory: 1 GB
- free hard disk space: 30 MB for the program, additional space for recording
- recommended processor: Intel Core i3



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