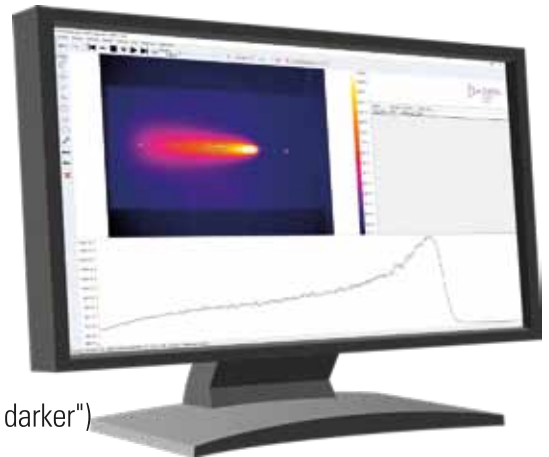


Software for thermography applications

LabIR® TECHNOLOGY

► **Main features:**

- thermal analyses
- point analysis can sample more pixels (noise smoothing)
- possibility to modify the emissivity of a recording
- the ability to set different emissivity in analysis (a part of the image)
- modified emissivity is visible in the thermogram (the area is "lighter or darker")
- emissivity calculation according to user-specified temperature
- emissivity calculation based on a specific area with a thermographic paint; calculation is continually updated during measurement
- emissivity calculation according to the temperature of the thermocouple; calculation is continually updated during measurement
- recording frame rate is independent of the camera (useful for recording slow lengthy processes)
- HOLD MAX function to maintain the maximum temperature (recording the maximum temperature over time)



► **Software options and settings:**

Camera settings

- camera settings panel (the possibility of calibration, depending on the camera)
- the possibility of recording
- setting up of the recording frame rate is independent of the camera

Images export

- thermogram as an image (jpg, png), a series of images (jpg, png) or video (avi)
- thermogram only or thermogram with analyses
- export images from the selected time interval

Temperatures export

- export of temperatures from the whole thermogram or from a selected part to csv

Graphs export

- export graph to csv
- export line temperature profile over time
- export area temperature over time (for min., max. and average temperatures)
- export the selected time interval

Program customization

- the possibility of smoothing image
- the selection of colour palette
- temperature range settings
- thermographic parameter settings
- zooming in thermogram

Analyses options

- point, line, polyline, rectangle, ellipse, polygon
- display locations with minimum and maximum temperature
- temperature display by the cursor
- point analysis may sample more pixels
- measurement of minimum, maximum, average and standard deviation
- differential image (the temperature difference compared to the selected image)
- HOLD MAX function maintaining maximum
- calculation of the length or area of an analysis
- settings for conversion from pixels to mm and the possibility of measuring in real dimensions

Graph options

- display a graph of temperature over time
- display temperature profile of a line
- scale settings
- settings options for time units
- floating window (display the last time interval in the graph)

System requirements

- OS: Windows 7 and newer
- memory: 1 GB
- free hard disk space: 10 MB for the program, additional space for recording
- recommended processor: Intel Core i3



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