

FLIR QuickPlot & FLIR ResearchIR

Entry and mid-level R&D software

- > Visualise thermal patterns in real time
- > Non-invasive, Non-contact
- > Visualise multiple measurements in one image
- > Export plots in standard picture and data formats (csv, bmp, jpg)

FLIR QuickPlot and FLIR ResearchIR are aimed at R&D users of uncooled infrared cameras wanting to get an understanding on thermal events for design, product or process.

FLIR QuickPlot

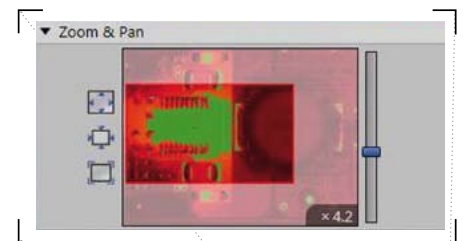
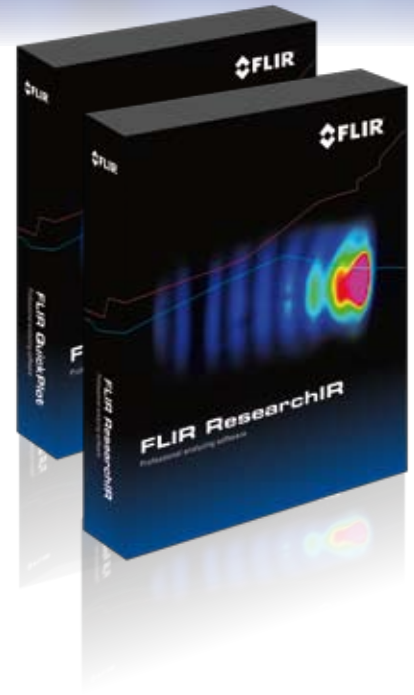
FLIR QuickPlot, for entry- and mid-level R&D users, allows the user to visualise thermal patterns, to record and store thermal image sequences, and to create time-temperature plots for further analysis.

- Acts as multiple spot pyrometer
- Possible to record and store image sequences for later retrieval
- Possibility to generate time-temperature plots
- File organiser with Quick Collection and Preview of sequences
- Zoom & Pan; allows you to get a closer look at your problem and analyse functions
- Multiple user configurable tabs for live images, recorded images or plot

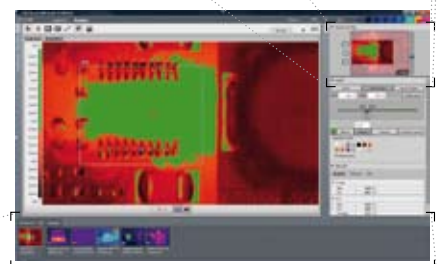
FLIR ResearchIR

FLIR ResearchIR, aimed for more advanced users, visualises thermal patterns and enables viewing, pre- & post recording and storing images at high speed.

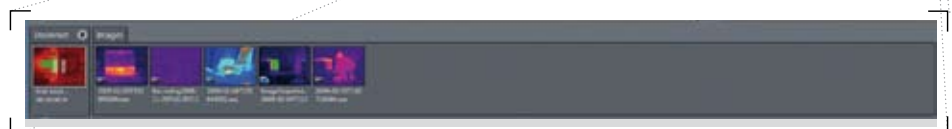
- Possible to view, record and store images at high speed
- Allows for post processing of fast thermal events
- Possibility to generate time-temperature plots from live images or recorded sequences
- Advanced Start/Stop recording conditions incl. Analyse value conditional
- Pre- and Post recording
- Unlimited number of Analyse functions (Spot, Line, Area)
- File organiser with Quick Collection and Preview of sequences
- Zoom & Pan; allows you to get a closer look at your problem and analyse functions
- Multiple user configurable tabs for live images, recorded images or plot



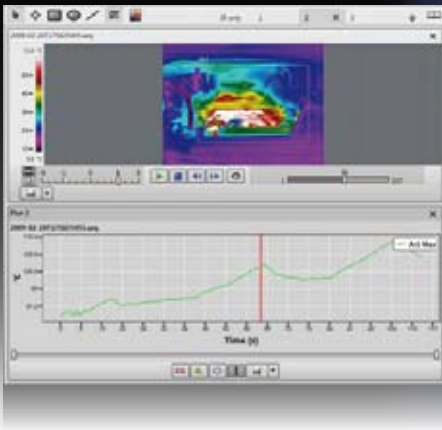
The Zoom and Pan allows you to zoom in interesting areas or to more accurately position analyse functions.



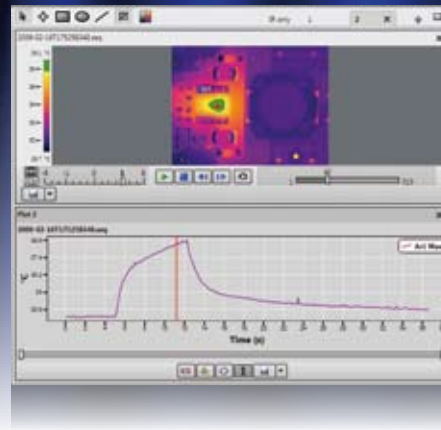
The Quick Collection shows images and sequences currently active.



Application examples



Recorded sequence of a car engine



Recorded sequence of a PCB

FLIR QuickPlot

- Monitoring of a car's exterior temperature pattern in climate test chamber.
- Monitoring of surface temperature on devices when loading conditions are changed, for example power supplies, cooling devices and moving mechanics.

FLIR ResearchIR

- Monitoring the transient behaviour of power supplies or components when altering the load or any other parameter during power up.
- Evaluating the transient behaviour of a car brake when braking and monitor the changed pattern when altering the brake material.

FLIR R&D software features

	QuickPlot	ResearchIR
Camera Support		
A20/A40/ PSC65	NOT	NOT
A325	9 Hz	60 Hz max
A320	2 Hz	7-8 Hz
T250	2 Hz	3-5 Hz
T400	2 Hz	3-5 Hz
I60	1 Hz	1 Hz
SC640	9 Hz	30 Hz max
SC600-Series Windowing	NOT	120 Hz max
OS Support		
Windows XP 32-bit	✓	✓
Windows Vista 32-bit	✓	✓
Organise & File Explorer		
Quick collection	✓	✓
Preview of sequences	✓	✓
User GUI and live view		
Zooming	✓	✓
Pan	✓	✓
Color Bar	✓	✓
Fullscreen Display	✓	✓
2 Screen display	✓	✓
Thumbnail Viewer	✓	✓
Multiple viewports with Live image/Stored image, Plots	✓	✓
Palettes	✓	✓
Hide/Show overlay	✓	✓
Image Enhancement	✓	✓
Level and Span, Manual, From Image, Scale Modes, Linear, PE	✓	✓
Default Workspace	✓	✓
NUC On/Off	✓	✓
Perform NUCs	✓	✓
One-Point	✓	✓
Analyse & Result		
Flying Spot	✓	✓
Object Parameters (Global and Per ROI)	✓	✓
ROIs	✓	✓
Spot	✓	✓
Box	✓	✓
Ellipse	NOT	✓
Line	NOT	✓
Poly-line	NOT	✓
Isotherm (Above, Below, Interval)	✓	✓
Edit Properties	✓	✓

	QuickPlot	ResearchIR
Result table		
Mean, Max, Min	✓	✓
Standard Deviation	NOT	NOT
Units		
Raw Counts	NOT	✓
Object Signal	NOT	✓
Temperature (Celsius, Fahrenheit, Kelvin)	✓	✓
Radiance	✓	✓
Graphs		
Plot	✓	✓
Time vs. Temp/ Intensity any result	✓	✓
Live plot	✓	✓
Recording and playback		
IR image	✓	✓
Record Rate Limit	✓	✓
Adjustable Record Rate	✓	✓
With Display	✓	✓
Snapshot	✓	✓
Recording to disk		
Frames per Second	✓	✓
Interval (S:M:H)	✓	✓
Repetitive recording		
Trigger	✓	NOT
Start	✓	✓
Manual	✓	✓
On time	NOT	✓
Conditional (Above, Below, Interval of Analyse)	NOT	✓
A325 Digital In	NOT	✓
Stop	✓	✓
Manual	✓	✓
On time	NOT	✓
Delta time (S:M:H)	NOT	✓
Conditional (Above, Below, Interval of Analyse)	NOT	✓
A325 Digital In	NOT	✓
Pre/Post-recording		
Delta time (S:M:H)	NOT	✓
Playback		
Variable speed	✓	✓
File Support		
Radiometric JPEGs	✓	✓
SEQ Files	✓	✓
Still image from Camera	✓	✓
Export		
Graphs		
Plot (cvs, bmp, jpg)	✓	✓

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