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 a multiple spot pyrometer

- Possible to record and store image sequences for later retrieval

- Possible 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. conditional on analysis value

- Pre- and Post-recording

- Unlimited number of Analysis 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
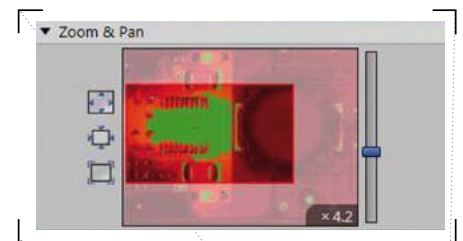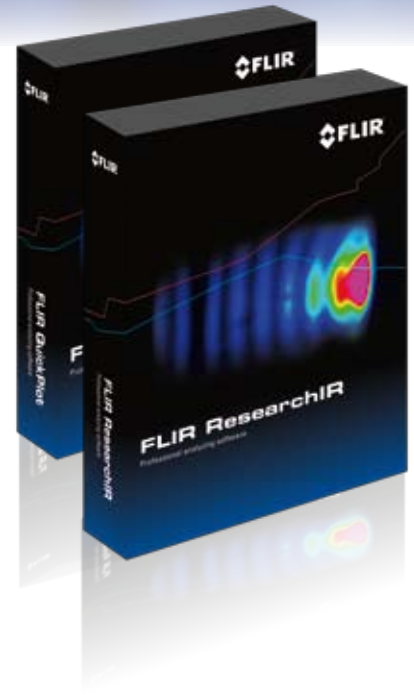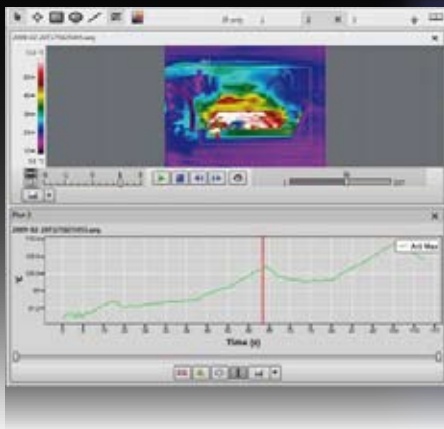

The Zoom & Pan pane allows you to zoom in interesting areas or to more accurately position analysis functions.
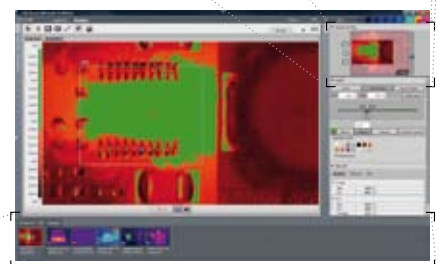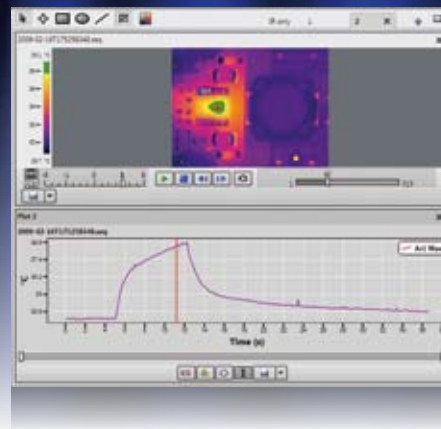

The Quick Collection shows images and sequences currently active.
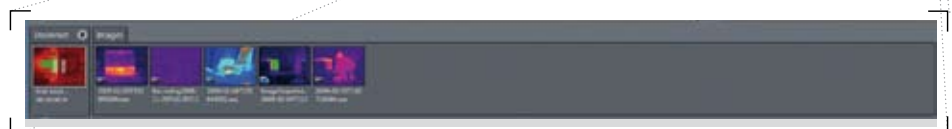
Application examples

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 & 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	✓	✓
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)	✓	✓
Trigger	✓	✓
Start	✓	✓
Manual	✓	✓
On time	NOT	✓
Conditional (above, below, interval of analysis result)	NOT	✓
A325 Digital In	NOT	✓
Stop	✓	✓
Manual	✓	✓
On time	NOT	✓
Delta time (S:M:H)	NOT	✓
Conditional (above, below, interval of analysis result)	NOT	✓
A325 Digital In	NOT	✓
Pre/Post-recording	NOT	✓
Delta time (S:M:H)	NOT	✓
Playback	✓	✓
Variable speed	✓	✓
File Support	✓	✓
Radiometric JPEGs	✓	✓
SEQ Files	✓	✓
Still image from camera	✓	✓
Export		
Graphs	✓	✓
Plot (.csv, *.bmp, *.jpg)*	✓	✓

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