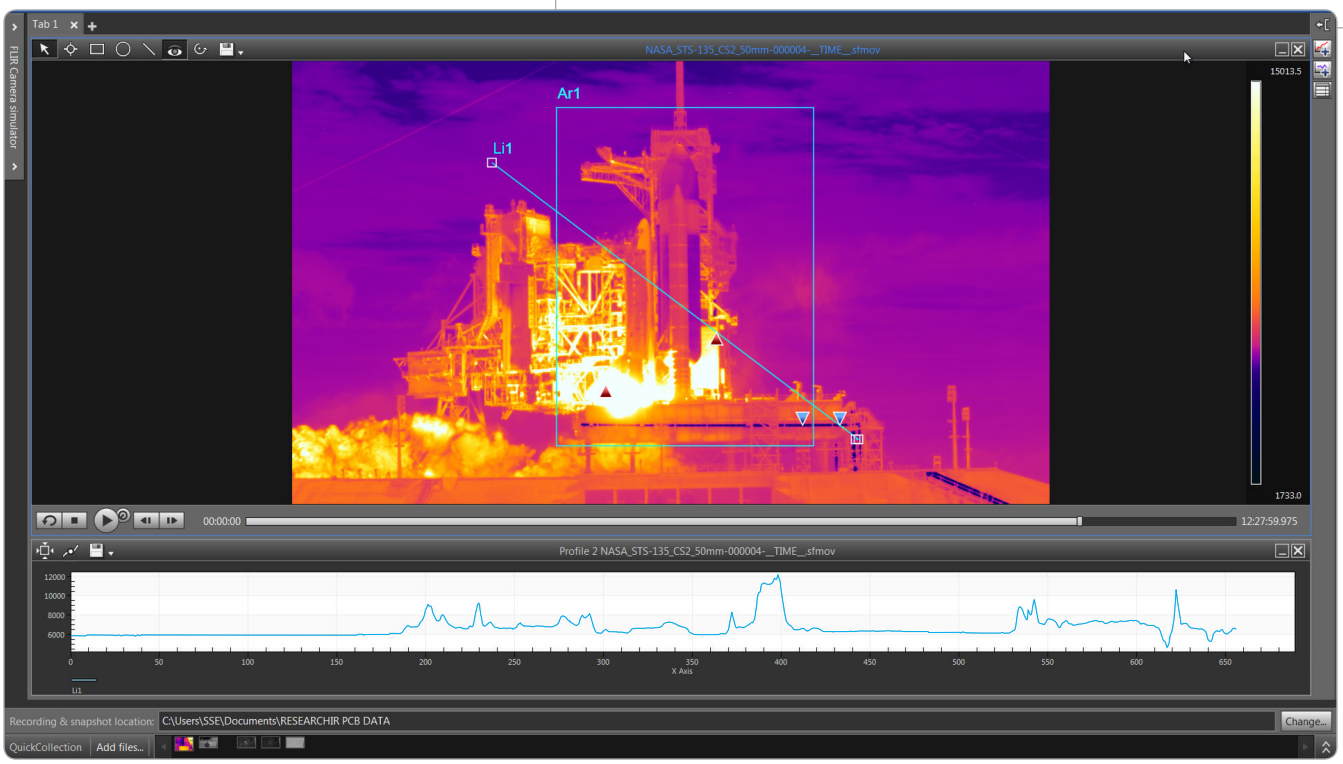
FLIR ResearchIR

Thermal Measurement, Recording, and Analysis Software for Research and Science Applications



- Easy Camera Connectivity
- Customized Workspaces
- Snapshot and Movie Recording
- Multiple Measurement Modes
- Chart, Graph, and Plot Reporting

FLIR ResearchIR

ResearchIR is a powerful and easy-to-use thermal analysis software package for FLIR Research & Science cameras.

It provides camera control, high-speed data recording, image analysis, and data sharing.

Acquire – The ResearchIR software connects directly to FLIR Research and Science cameras via USB, Firewire, Gigabit Ethernet, and Camera Link to acquire thermal snapshots or movie files.

ResearchIR supports multiple acquisition options, including pre- and post-trigger recording based on user configured start and stop times, or scene temperature thresholds.

Users can also set the capture frame rate as well as the number of frames to record.

Analyze – ResearchIR performs real-time image analysis, with an extensive set of measurement tools including spots, lines, and areas.

ResearchIR supports Preset Sequencing and superframing for analysis of scenes with large temperature differences or targets with rapid thermal dynamics.

ResearchIR provides an array of charting and plotting capabilities including line profiles, and temporal plots for all of the measurement tools.

Share – Image and plot data from ResearchIR can be exported graphically as a Bitmap or CSV file for reporting and analysis in other software programs.

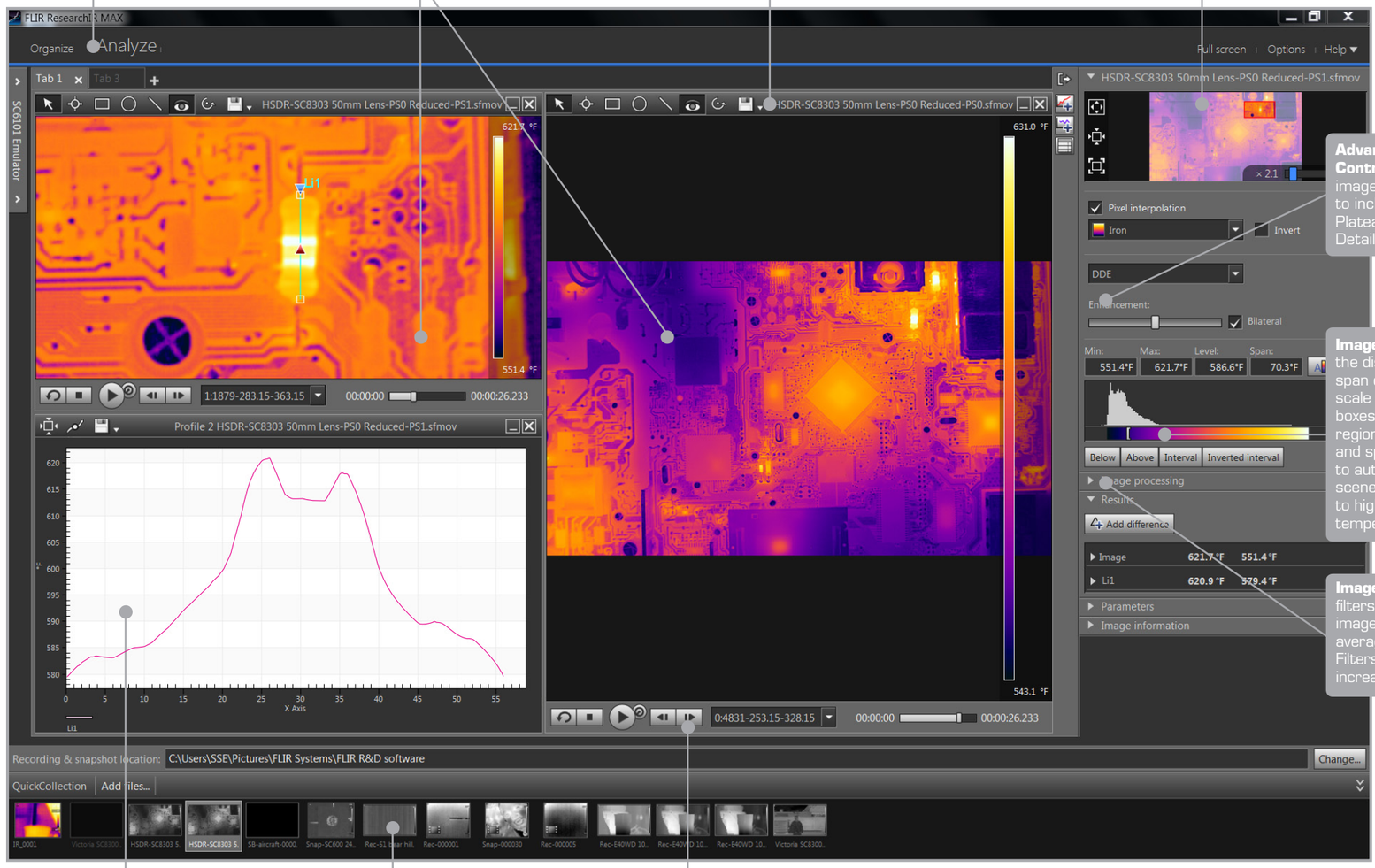
Thermal movies can be exported as standard AVI files with the option to display ResearchIR overlays.

Customized Workspaces – Allows users to arrange how imagery, data, charts, and plots are displayed.

Multiple Image Window Display – Open up to 4 image displays to include live, movie play-back, or snap shot.

Multiple Measurement Analysis Tools – Provide fast, detailed analysis using spot, line, and area measurement tools.

Image Zoom & Pan – Select up to 30X zoom factor and pan throughout the image



Advanced Image Gain Controls – Used to enhance image contrast and brightness to include Linear, Histogram, Plateau Equalization, and Digital Detail Enhancement (DDE).

Image Level & Span – Adjust the displayed temperature span of the image with the scale sliders, the numeric value boxes, or set for a specific region of interest. The level and span can also be set to automatic update upon scene changes or be locked to highlight relative changes in temperature.

Image Processing – Multiple filters are available for advanced image processing like image averaging and subtraction. Filters can be layered for increased processing capability.

Charts & Graphs – Create line profiles, results tables, and temperature plots for multiple analysis tools.

Data Export – Data contained in plots and charts can be exported graphically, as text, or in CSV files for reporting and analysis in other software programs.

Movie or Snapshot Analysis – Measurement analysis can be done "live" when connected to a camera, or in playback with recorded snapshots and movie sequences.

Additional ResearchIR Features

Flexible Image and Data Recording – Selectable recording start times, end times, number of frames, as well as conditional recording triggers.

Emissivity Calculator – The emissivity value for any measurement tool can be adjusted manually or calculated by using the built in Emissivity Calculator.

Advanced Image Filters – Advanced image processing with the built-in ResearchIR process filters. Filters can be layered for increased capability.

Data Export – Data contained in plots and charts can be exported graphically, as text or CSV files for reporting and analysis in other software programs.

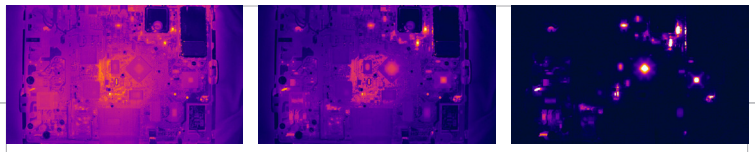
Two Versions Available – ResearchIR is available in two versions to meet budget and analysis needs. Please contact your FLIR representative for a detailed description of the ResearchIR and ResearchIR Max features.

ResearchIR Demos and Education – Need some training on ResearchIR, or would you like to see a web demonstration? Visit one of the following web sites:

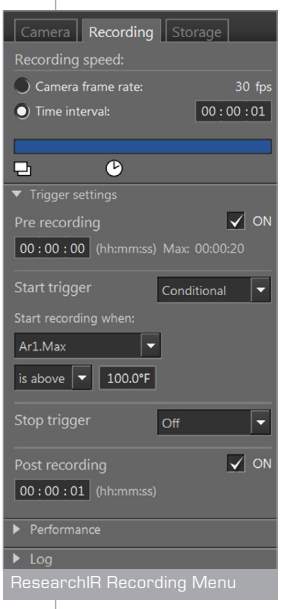
http://www.flir.com/researchIR/tutorial

http://www1.flir.com/upgradetraining

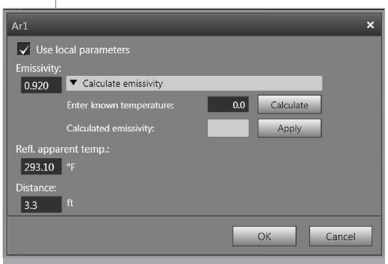
http://www.youtube.com/user/FLIRRandDCameras



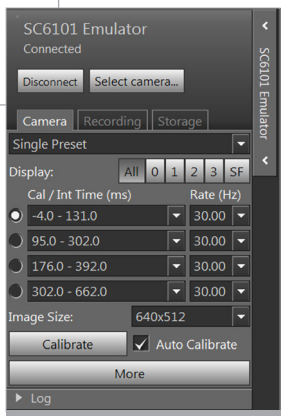
Sample image subtraction using filters.



ResearchIR Recording Menu



ResearchIR Emissivity Calculator



ResearchIR Integrated Camera Control

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