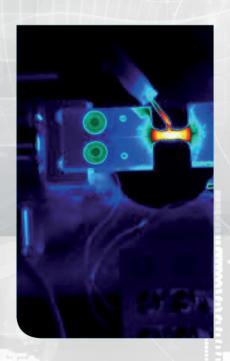
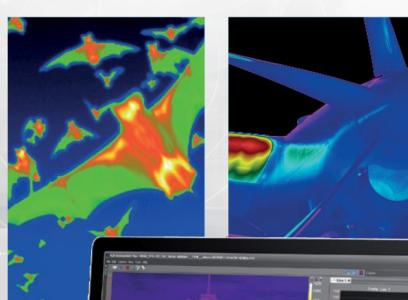
## **FLIR RESEARCHIR**

THERMAL MEASUREMENT, RECORDING, AND ANALYSIS
SOFTWARE FOR RESEARCH AND SCIENCE





- Easy Camera Connectivity
- Customizable Workspaces
- Snapshot and Movie Recording
- Multiple Measurement Modes
- Chart, Graph, and Plot Reporting
- Self Viewing File
- MATLAB\* Compatible





## FLIR RESEARCHIR

ResearchIR is a powerful and easyto-use thermal analysis software
package for FLIR Research &
Development / Science cameras.
It provides camera control, highspeed 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 high-speed burst mode recording to RAM or slower speed data logging to a hard drive. Users can easily customize recording options, such as: start times, end times, and the number of frames to acquire.

**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 larger temperature differences.

ResearchIR provides an array of charting and plotting capabilities including line profiles, histograms, 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. Additionally, every frame of data can be easily exported to 3rd party analysis software via export as CSV, 32-bit TIFF, Matlab®, etc.

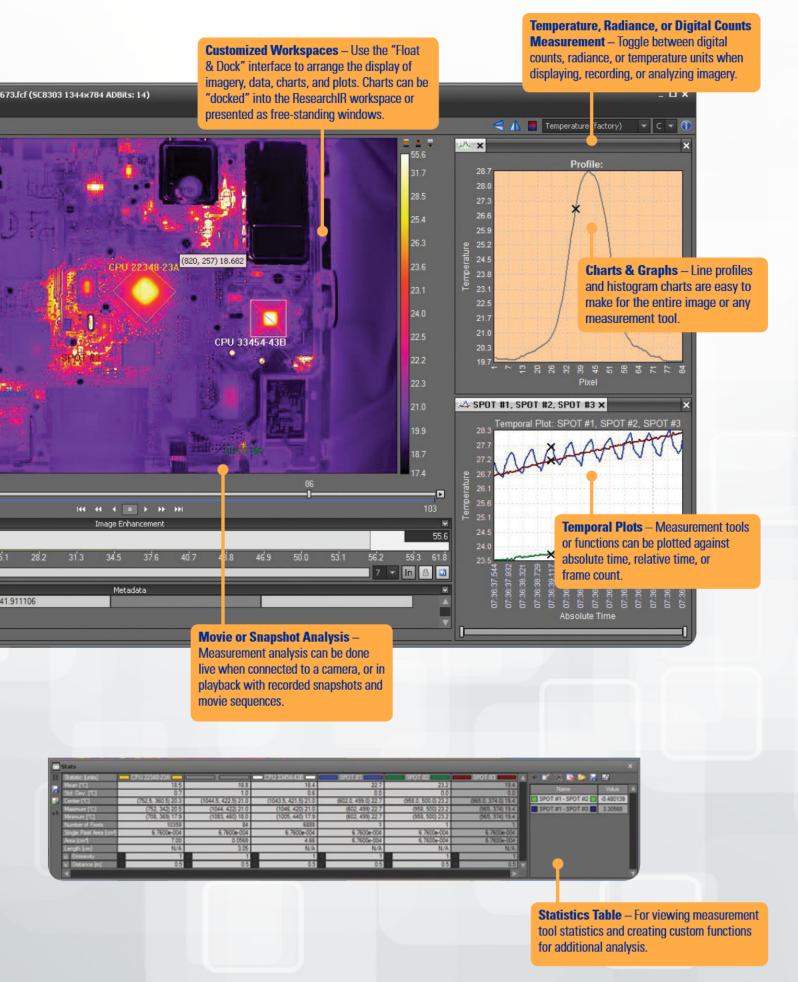
ResearchIR's exclusive Self Viewing Files (SVFs) allow users to share discrete copies of ResearchIR data sets with other viewers. See the back cover for more information.

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





**Advanced Tools** – These tools allow users to set object parameters, view the source information, set the image segmentation tool, and display the explorer file manager.



## ADDITIONAL RESEARCHIR FEATURES

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

Spatial Calibrations - Used to calibrate image pixels and measurement tools to length and area units like millimeters, meters, inches, and feet.

## **Custom Thermographic and Radiometric Calibrations**

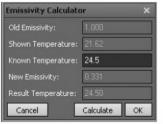
- A calibration wizard guides you step-by-step through the creation of your own thermographic and radiometric calibrations.

Measurement Function Editor - Create mathematical functions for custom measurement analysis and graphically present them on temporal plots.

**Self Viewing Files** – SVFs are a way to share your thermal snapshots, movies, and data with others who do not own a ResearchIR license. SVFs combine a unique thermal data file with the functions of ResearchIR into a single executable file. This file can be shared with others, allowing them to run the SVF on any Windows computer and access the full power of ResearchIR for playback and analysis without any software installation.

MathWorks® MatLab Compatible - Access MatLab® scripts directly in ResearchIR for customized image analysis and processing.

ResearchIR Demos & Training - To see ResearchIR in action, watch a web demonstration, or view tutorial videos, visit www.flir.com/ResearchIR.



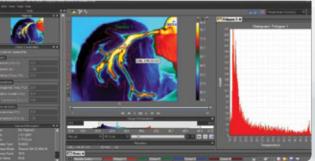




Spatial Calibration



Measurement Function Editor



Self Viewing File

Specifications are subject to change without notice

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The images displayed may not be representative of the actual resolution of the camera shown. Images for illustrative purposes only. Updated (01/12/15)

The World's Sixth Sense\*\*