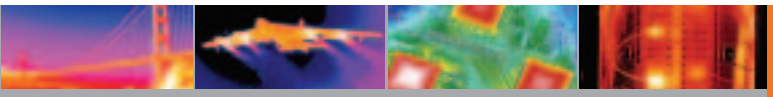
FLIR SYSTEMS

The Global Leader in Infrared Cameras

ThermaCAM® RTools™

INFRARED CAMERA SOFTWARE

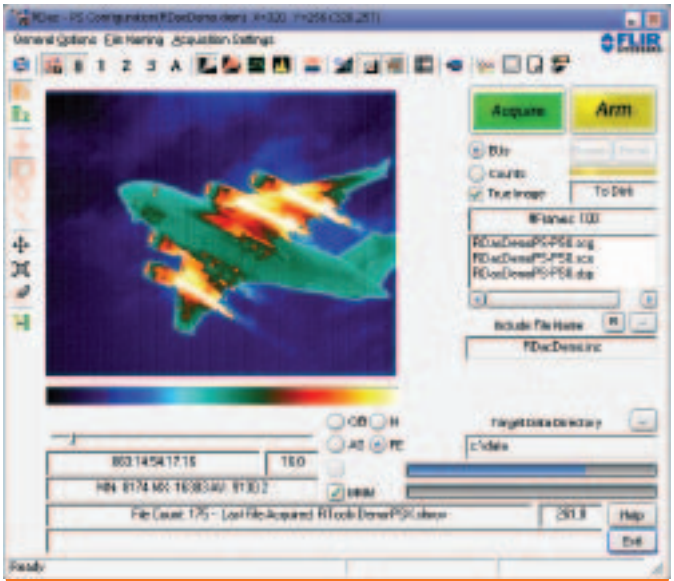


A highly sophisticated software package developed for engineers and scientists to acquire, radiometrically calibrate, process, and analyze data from various digital infrared camera systems.

ThermoVision SC6000 Infrared Camera

The RTools Software Suite Includes:

- **RDac™** - An Easy-to-use, Real-time Data Acquisition Program
- **RCal™** - To Radiometrically Calibrate Infrared Cameras
- **RView™** - A High-performance, Data Viewing & Analysis Module
- **REdit™** - A File Archival, Editing and Maintenance Tool

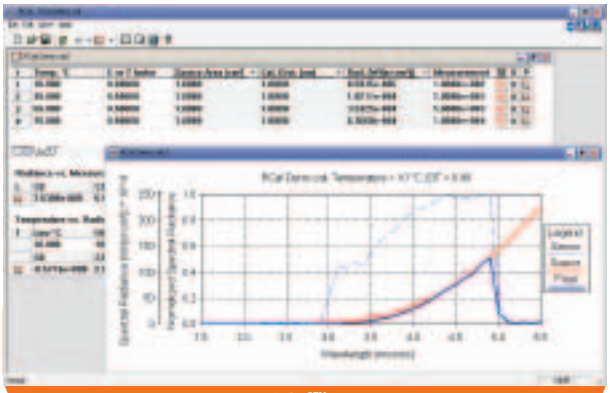


RDac™

RDac™

RDac™ is a real-time data acquisition program developed to communicate with and acquire data from numerous off-the-shelf and custom radiometric instruments. The module is designed for ease-of-use while providing real-time data capture, viewing, analysis, and storage.

- Real-time radiometric output: radiance, radiant intensity, temperature, target length/area, and more
- Multiple color tables (grayscale default) with real-time image scale control
- Compatible with many infrared imagers: FLIR SC6000, Phoenix, Merlin, and imagers with RS-422, LVDS, or TTL outputs
- Integrated IRIG-B timestamp capability
- Embedded spatial and spectral radiometric calibration support
- FLIR SC6000 and Phoenix Preset/Sequencing/Superframe support
- SAF file format compatibility



RCal™

RCal™

RCal™ is a standalone tool that works in conjunction with the RDac™ module and the SAF data file format to radiometrically calibrate all types of banded instrumentation.

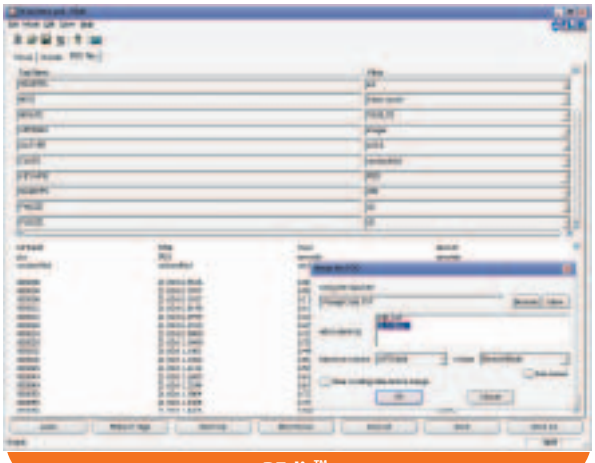
- Calibrates IR banded instrumentation in terms of radiance, irradiance, and temperature
- Multi-order calibration
- Allows the use of different transmission and/or emissivity curves or constants for each calibration data point
- Tophat or actual instrumentation spectral responses
- Automatically provides calibration coefficients for SAF data files
- Uses ModTran output files to incorporate atmospheric effects
- Provides the necessary radiometric data needed to set instrumentation sensitivity and spectral range

RView™

RView™

RView™ is an easy-to-use, high performance, radiometric data viewing and analysis module that is compatible with IR imager and hyperspectral imager SAF file formats.

- Data types: raw, radiance, irradiance, intensity, and temperature with adjustable emissivity
- Output file formats: text, avi, mpg, bmp
- Movie Player (forward, reverse, adjustable speed)
- Hyperspectral data cube support (spatial, spectral, and time)
- Multiple color tables (grayscale default) with real-time image scale control
- Multiple region-of-interests: box, circle, freeform, and line
- Statistical ROI, Contours, Line Profiles, Histograms
- Radiometric calculator using ROIs, constants and trig functions as variables
- Image segmentation
- Voxel plots (stats vs. time or wavelength)
- 3D viewer
- Script creator to minimize data reduction and analysis time



REdit™

REdit™

REdit™ is a utility to provide the RTools™ user with a quick and convenient way to edit the header/footer of Standard Archive Format (SAF) data files. The editor provides the user with both individual and batch mode capability to modify header data on one or numerous files during a single session.

FLIR SYSTEMS™

The Global Leader in Infrared Cameras

1 800 464 6372

www.flirthermography.com/rtoolsdata