Infrared Analysis Module

Infrared images provide information critical to the timely and accurate diagnosis of machinery health.

- IR and visual images aid for improved fault identification

- Customized reporting delivers the information needed for informed decisions

- Import of radiometric images from popular Fluke and FLIR cameras

Use the camera of your choice to capture infrared data and integrate with other predictive diagnostics to determine overall asset health.
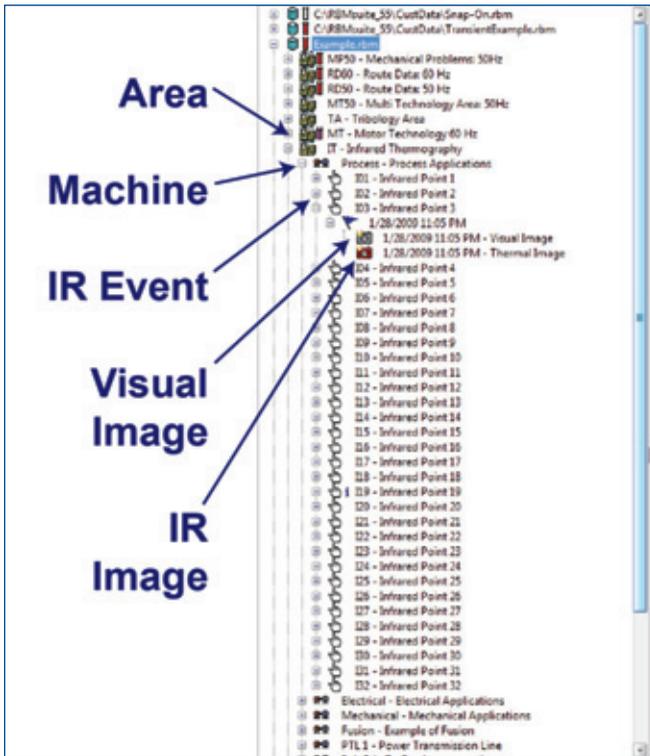
Overview

An infrared thermography program is a key component to understanding the complete health of plant assets. Typically these programs have operated outside of your maintenance program's database. But organizing and analyzing these images alongside that diagnostic database can allow you to better utilize production assets and predict developing machinery health problems.

The Infrared Analysis module in AMS: Machinery Manager allows you to analyze and report on IR images in the same environment as your vibration analysis program. Tools for both analysis and reporting are available on a single screen, allowing you to go directly from an IR image to detailed analysis to a health report quickly and easily.

AMS Suite supports radiometric images from the popular Fluke and FLIR infrared cameras, as well as images from additional camera vendors. Use the camera of your choice, while taking advantage of integrating their IR data with your existing database.

EMERSON
Process Management

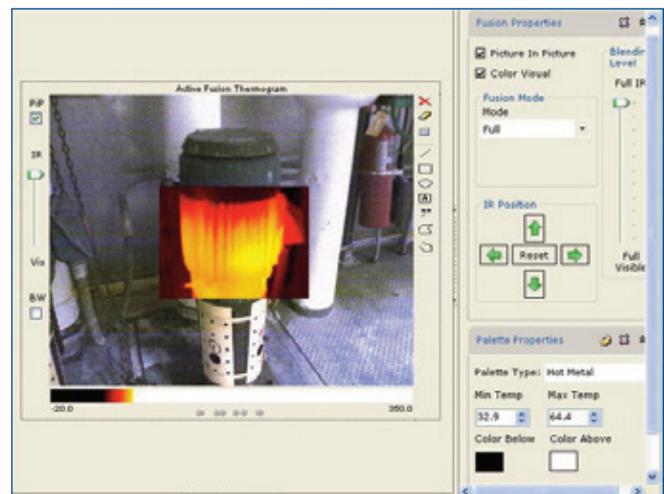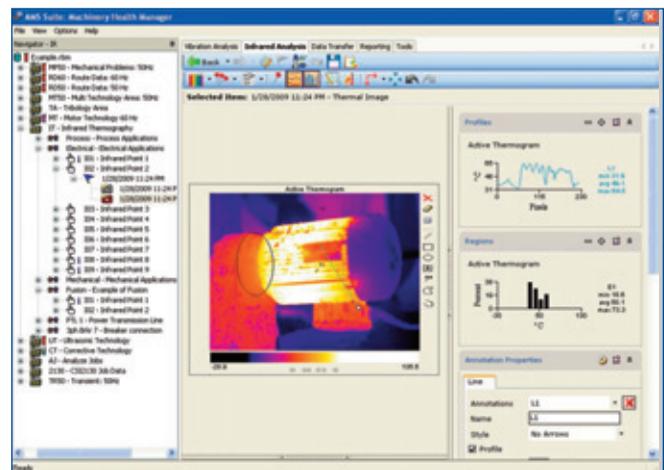*Integrated data makes analysis easier and provides an accurate historical record of events.*

Integrated Asset Database

AMS Machinery Manager allows you to associate IR images to existing assets in your database. This allows for easy organization and a simplified structure of historical machinery health information, without tedious naming conventions or multiple folders. You can also correlate data with other technologies to gain a more comprehensive understanding of equipment condition.
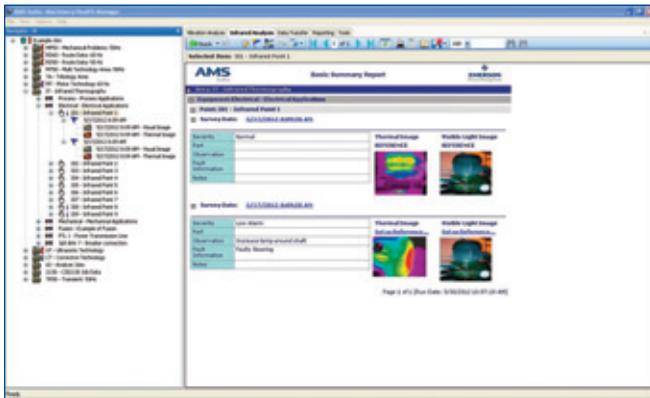
Extended Image Support

The Infrared Analysis module supports Fluke and FLIR radiometric images. Simply drag/drop the images from your network or hard drive to the appropriate asset in the navigation tree. Once in the database, you can apply the full range of IR analysis tools and reports to the image.
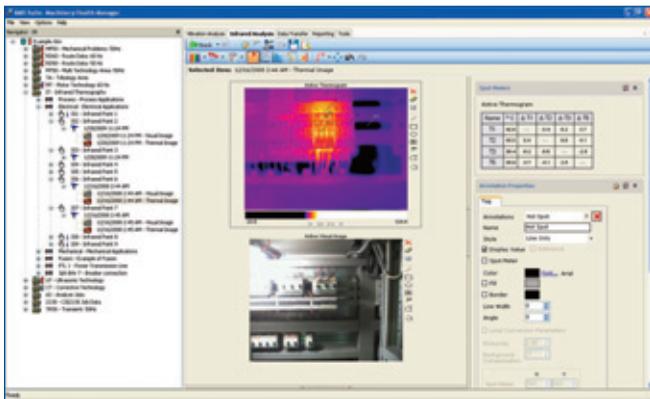
The module includes full radiometric support for Fluke Fusion Picture-in-Picture, including slider bar functionality for alternating between IR and visual images. It also supports the FLIR Polyline capability, used to outline custom shapes and show temperature values along the line.

AMS Machinery Manager imports images from Fluke and FLIR cameras.

Use AMS Machinery Manager to compare images from healthy machines and problem machines to help pinpoint the issue.

The spot meter function enables you to do in-depth temperature analysis.

Easy to Use

The Infrared Analysis module offers ease of use features that allow even first-time thermographers to be successful faster with little or no training. The user can set up preferences to customize their view of IR images and reports. Other ease of use capabilities include:

- Baseline and current image comparisons

- IR and visual image views in event selection

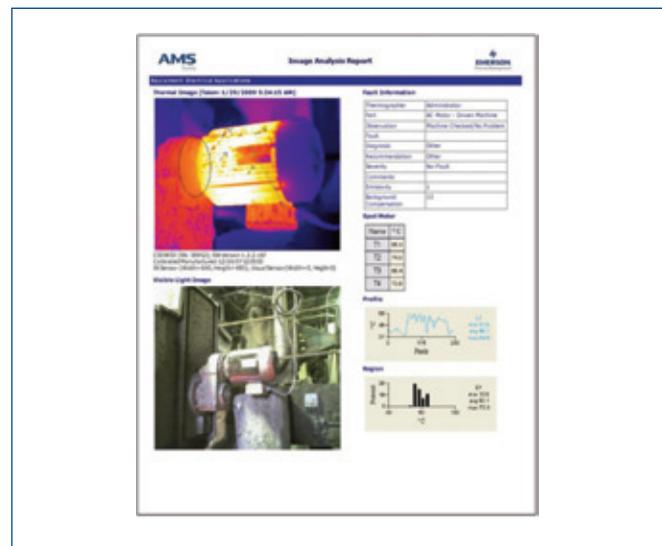- Easy creation of custom reports

Radiometric Analysis Tools

The Infrared Analysis module contains extensive radiometric analysis tools, including spot meters, palette types, isotherms, and temperature conversions.

Profiles and regions can also be plotted. The Profiles tool has a line graph that shows the temperature value at each specific point along the path. The Regions tool identifies specific temperatures and their percentages inside the shape. The isotherms capability allows you to select a color and assign a temperature range to that specific color. Multiple isotherms can be applied to an IR image, allowing you to quickly identify specific temperature ranges.

Reporting

The reporting feature allows you to customize reports including displaying graphs of different profiles and histograms, selecting visual and baseline images, and even importing a company logo. The default report format is designed to be very organized but simple for quick and easy reading, and includes a section for notes from the technician about the asset health reflected in the image.

Final reports can also be published as a .pdf file or formatted as an Excel spreadsheet and sent to appropriate personnel for scheduling and maintenance activities.

Customize analysis reports to meet your specific needs.

Continuing Support to Ensure Success

Training Courses Build Expertise

Emerson's Educational Services help maximize the return on your technology and personnel investment. Courses are taught by professionals with experience in plant predictive or reliability-based maintenance programs. Training is offered in Emerson's state-of-the-art training facilities or onsite, giving you expert training without leaving your facility.

Technical Support You Can Count On

Your company makes significant investments in technology to safeguard its production assets. Emerson is committed to providing quality technical support for your machinery analysis tools. Our Technical Support Agreements for hardware and software products do more than keep your technologies running smoothly. They provide the latest functionality for your existing technologies and protect your investment through priority access to support and repair services.

Ordering Information

The Infrared Analysis module can be ordered as a single-user option or scaled to fit a global network application.

To order this package, contact your local Emerson representative and request the Infrared Analysis module for AMS Machinery Manager, part number A479400. Additional seats on a network environment can be ordered using part number A479400-S.

Emerson Process Management
Asset Optimization
835 Innovation Drive
Knoxville, TN 37932
T (865) 675-2400
F (865) 218-1401
www.assetweb.com

EMERSON™
Process Management