MoviTHERM IR-CAT Capture Analysis Toolkit

The MoviTHERM “IR-CAT” Capture Analysis Toolkit is a general-purpose thermal imaging platform for FLIR Infrared Cameras. The software toolset is optimized for research and development workflows.

**Easy-to-use GUI simplifies Image Capture and Analysis**

**IR-CAT - Feature Highlight**

- Real-Time & Offline Analysis
- Snapshot Capture & Movie Recording
- Difference Image for Dynamic Analysis
- MS EXCEL Reports Generation
- AVI Video Export
- Region-based Emissivity Correction
- Time & Event-based Recording

**Optimized for R&D Workflows**

The IR-CAT workspace streamlines your workflow by providing access to the most frequently used functions. Whether you want to evaluate a real-time image stream, or post-process your data for a closer look, MoviTHERM IR-CAT gives you the tools you need to get the job done.
Advanced Features
The software includes several advanced features for research and development tasks.

Global & Regional Emissivity Correction
Emissivity correction enables you to match the emissivity characteristics of different target materials in your inspection image. Temperature readings are reliable for homogenous objects made of a single material, or objects composed of several different source materials.

Difference Image
The powerful "Difference Image Function" helps you to quickly isolate the regions where temperatures are changing.

Event-Based Recording
The ROI Trigger Feature allows you to trigger temperature events without requiring any external I/O hardware. When the trigger conditions are satisfied in the Region of Interest, the trigger action is executed. This feature can be used to capture images or data only when a pre-defined condition has been met, such as when the maximum temperature in a region exceeds a preset limit.

Export Data to MS-Excel
The "Export to Excel" function allows you to save real-time and offline data into a standard Microsoft Excel spreadsheet file.

Supported Cameras
Depending on the requirements of your application, any of the following FLIR® Thermal Cameras are supported:

<table>
<thead>
<tr>
<th>Camera</th>
<th>FLIR® A35</th>
<th>FLIR® A65</th>
<th>FLIR® A315</th>
<th>FLIR® A615</th>
<th>FLIR® A6601 / A6651</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>320 x 256 pixels</td>
<td>640 x 512 pixels</td>
<td>320 x 240 pixels</td>
<td>640 x 480 pixels</td>
<td>640 x 512 pixels</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>60 Hz</td>
<td>7.5 Hz / 30Hz</td>
<td>60Hz</td>
<td>50 Hz (100/200 Hz with windowing)</td>
<td>60 Hz 125 Hz @ full window</td>
</tr>
<tr>
<td>Object Temperature Range</td>
<td>-25°C to +135°C (-13 to 275°F)</td>
<td>-25°C to +135°C (-13 to 275°F)</td>
<td>-20 to +120°C (-4 to 248°F) **</td>
<td>-20 to +150°C (-4°F to 662°F) Optional Up to 1,500°C (2,732°F) Up to 2,000°C (3,632°F)</td>
<td>-20°C to 350°C (-4°F to 662°F)</td>
</tr>
<tr>
<td>Accuracy</td>
<td>±5°C (±9°F) or ±5%</td>
<td>±5°C (±9°F) or ±5%</td>
<td>±2°C or ±2% of reading</td>
<td>±2°C or ±2% of reading</td>
<td>±2°C or ±2% of reading</td>
</tr>
</tbody>
</table>

** High Temperature Options available for FLIR A315, please contact MoviTHERM for details.