iC Software

iC IR allows scientists to obtain the maximum amount of information from reactions with the minimum amount of effort. Advanced, yet intuitive, iC IR helps non-specialists extract critical information about key reaction species and gain a thorough knowledge of their reactions. In short, iC IR enables informed decisions that improve the quality and robustness of chemical processes.

**Simply Powerful**

Real-Time Results with *In Situ* Spectroscopy

**Quality Assured**
The iC IR wizard-guided software ensures that experimental data is only collected when the system is properly set up thereby improving the quality of experiments and reducing the possibility of errors.

**Simply Intelligent**
The ConcIRT™ algorithm makes it easy to extract the maximum amount of information from each reaction by automatically generating accurate component profiles and calculated spectra. Using ConcIRT improves productivity as data-rich information is generated in real time without specialized knowledge or prior information required.

**Built-in Knowledge**
Collect reference spectra and choose the functional group of interest from a menu. As data collection begins, the concentration profiles for the reaction species of interest are automatically trended for concentration changes with respect to the chosen functional groups.

**One-Click Reporting**
Create a detailed report summarizing an iC IR experiment with a single mouse click. The report includes trends, spectra, annotations and events. Print it, edit further in Microsoft Word or export to PDF – whatever supports your workflow.
Simply Powerful
Real-Time Results with In Situ Spectroscopy

Easy Data Collection and Instrument Control

- **Wizard guided instrument and experiment setup** reduces errors and de-mystifies spectroscopy
- **Templates** allow reuse of all settings from previous similar experiments
- **Live experiment toolbar** consolidates key status and control functions
- **Large value display** lets you monitor key parameters from across the room or under the fume hood
- **Referee data** from HPLC or other methods can be captured and used to fit IR trends to quantitative concentrations
- **Sampling schedules** with varying sampling intervals allow for efficient analysis of long experiments
- **Rapid scan mode** allows fast reactions to be sampled at 1Hz+
- **Calibration validation** to NIST polystyrene standard ensures optimal data quality (optional)
- **RTD inputs** for recording reaction temperatures as trends
- **Auto align detector** ensures optimal instrument performance
- **Multiple vessel monitoring** with a MultiMaxIR or MultiplexIR

Intuitive Data Analysis and Visualization

- **Linked views** simplify analysis and highlight data relationships
- **ConcIRT™ LIVE!** detects and characterizes reaction components
- **On-the-fly data treatments** allow real-time analysis
- **Annotations** are easily added to trends or spectra to enhance understanding and reports
- **Auto component profiling** facilitates functional group based monitoring
- **User-defined trends** allow more detailed analysis
- **Dynamic result sets** allow comparison of live experiments with previous runs
- **Data tabs** summarize profiles for key points in a reaction
- **Optional D2I modules** like iC Quant™ and ConcIRT™ Pro make it even easier to transform data into information

Data Exchange and Quick Reporting

- **Data sharing with iC Suite** – allows dragging and dropping of trends between any iC Suite Software
- **Simple data sharing** – with third-party applications like Microsoft Excel via copy/paste
- **Single click report generation** produces detailed reports in Microsoft Word or in read-only XPS format
- **Data import/export** with other iC products, SPC files or Excel is fast and easy
- **Auto export** of experiment data supports integration with other systems
- **21 CFR Part 11 compatibility** for electronic record keeping allows iC IR to be configured for compliant environments

Technical Specifications

**PC Requirements**

<table>
<thead>
<tr>
<th></th>
<th>Single iC Application</th>
<th>Multiple iC Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Microsoft® Windows® XP SP3, Microsoft® Windows® Vista SP1, Microsoft® Windows® 7 (32 and 64-bit)</td>
<td></td>
</tr>
<tr>
<td>CPU</td>
<td>Intel Core 2 Duo 2.2 GHz +</td>
<td>Intel Core 2 Duo 2.8 GHz +</td>
</tr>
<tr>
<td>Memory</td>
<td>2 GB</td>
<td>3 GB</td>
</tr>
<tr>
<td>Hard Disk</td>
<td>SATA 5400 rpm</td>
<td>SATA 7200 rpm</td>
</tr>
<tr>
<td>Graphics</td>
<td>SXGA 1280 x 1024 with 3D hardware acceleration</td>
<td></td>
</tr>
<tr>
<td>Additional Software</td>
<td>Internet Explorer 8.0 Web Browser, Microsoft® Office 2003 or later and the latest version of Adobe Acrobat Reader</td>
<td></td>
</tr>
</tbody>
</table>

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Supported Hardware

**Supported Hardware**

iC IR software supports the acquisition and evaluation of data from all ReactIR 15, 45m, 45P, and iC 10 series instruments as well as FlowIR instruments.

www.mt.com/iCIR

For more information