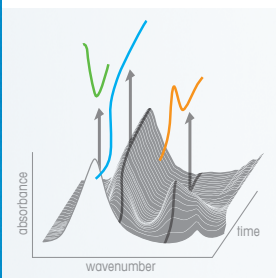# Simply Powerful
## Real-Time In-Situ Reaction Analysis

OneClick™ Reaction Profiling

The new Find Trends function enables reaction profiling in seconds. Click the button, choose the results that best match your chemistry, adjust if needed, and add the trend.

Reaction-Specific Workflow

Built specifically to analyze reactions, iC IR guides users through the optimal data manipulation process. Reaction analysis specific tools means faster data analysis, enabling more time to be spent on the next experiment.
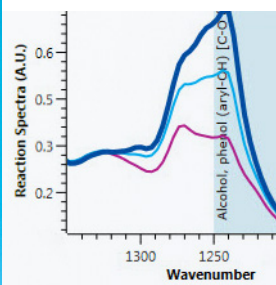
Pinpoint Reaction Events

Trends derived from reaction data are linked to functional group change using built-in correlation tables. Easily isolate parts of the reaction to better understand the impact of process variables on reaction performance.

Report and Share

Reports and presentations are created with the click of a button, allowing critical reaction knowledge to be easily captured and shared. Data management tools ensure storage in the right place, in the right format.

iC IR™

ReactIR™ enables the collection of high-quality mid-infrared data that can be transformed into comprehensive knowledge of reaction kinetics, mechanism, and progression. Historically, turning collected data into useful information was time-consuming and required in-depth knowledge. iC IR now includes additional expert level methodologies, which helps all users transform their data into information faster and easier than before.

METTLER TOLEDO

Simply Powerful
Real-Time In-Situ Reaction Analysis

Easy Data Collection and Instrument Control
- Guided setup including intelligent probe cleaning ensures high-quality data collection
- Calibration validation to NIST polystyrene standard ensures optimal data quality (optional)
- Add notes in real time to give context and detail to experimental data
- Offline data from HPLC or other methods can be used to fit IR trends to quantitative concentrations

Intuitive Data Visualization and Analysis
- Use the Find Trends tool to quickly analyze and profile a reaction
- Linked views highlight data relationships
- On-the-fly data treatments and spectral manipulation allow real-time analysis
- Annotations are easily added to trends or spectra to enhance understanding and reports
- Ribbon-based controls describe the optimal workflow for guided reaction analysis
- Zoom controls and time-region selection allow for targeted analysis of areas of interest
- Smart Pin spectra across time intervals or events for easy data comparison

Data Exchange and Quick Reporting
- A single click generates Microsoft® Office reports
- Easily integrate other iC and iControl™ experiment data
- Supports auto-export and real-time data exchange using industry standard formats
- Share peak trend data with Scale-up Systems applications like Dynochem® and Reaction Lab®
- Use iC Data Center™ to capture, prepare, and share process information (optional)
- 21 CFR Part 11 compatibility for electronic record keeping for use in compliant environments
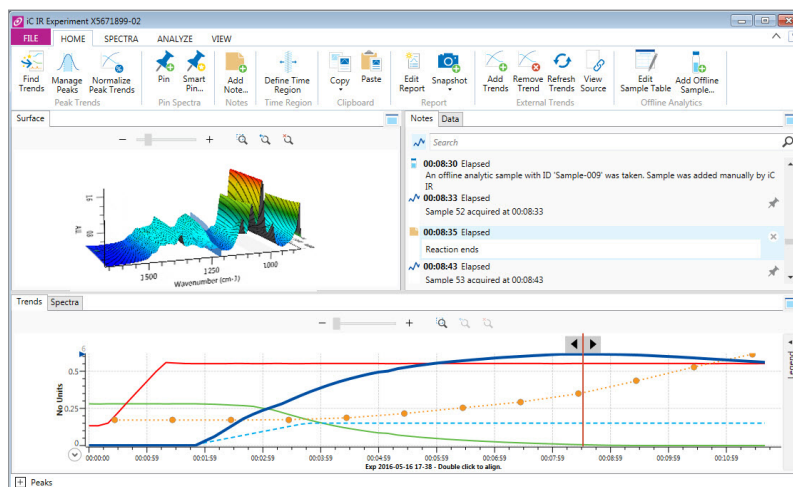
Technical Specifications

Instrument PC Specifications

Operating System	64-bit versions of Microsoft® Windows® 10 and Microsoft® Windows® 11
CPU	Intel i7 3000 series 2.0 GHz or better
Memory	4 GB or greater
Hard Drive	Solid-State Disk (SSD)
Graphics	SXGA 1280 x 720
Additional Software	Microsoft® Office 2013, 2016 or 365; Adobe® Acrobat DC and a Movies & TV application

Supported Hardware and Software

Supported Hardware

iC IR software supports the acquisition and evaluation of data from all ReactIR 702L and ReactIR 701 series instruments (ReactIR 45P support available via iC IR 4.3)

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www.mt.com/iCIR

For more information