



# Simple process Raman with Ramina

The Thermo Scientific™ Ramina™ Process Analyzer is a compact and portable Raman spectrometer. This all-in-one system is purpose-built for rapid deployment, ease of use, and scalability in markets where time-to-results is critical.

The Ramina Process Analyzer offers:

- Analysis without sample preparation, delivering Raman spectral results in real time
- Easy setup and deployment by non-Raman spectroscopists
- Non-destructive workflows to protect precious samples
- Non-invasive handling to minimise contamination of samples
- Small footprint for convenient deployment
- Factory calibration for hardware stability and portability.

## Enabling accurate, real-time results for process monitoring

With the Ramina Process Analyzer, businesses can conduct real-time, non-destructive and immediate analysis without the need for sample preparation. This analyser makes precise and accurate measurements simple to execute and understand with its one-button hardware and easy-to-use software.

The Ramina Analyzer is designed for out-of-the-box use, enabling you to collect highly accurate Raman measurements in less than 15 minutes. Pack this analyser in a protective case and take it to the point of need, as its factory calibration ensures continuous and precise analysis on the go. The Ramina Analyzer can be easily integrated into your existing process and eliminates the need for costly technical expertise.

## Ramina redesigns Raman

The Thermo Scientific Ramina Process Analyzer enables real-time, accurate

spectral results for process monitoring.

Ramina redesigns how Raman spectroscopy brings value to the process analytical technology (PAT) workflow by focusing on a user-centric experience through its rapid setup, portability and ease of use for upstream and downstream R&D applications.

### ■ Instant, in-line measurements

Ramina is built for consistent and continuous analyte monitoring and actively saves data either locally or to a networked archive during the measurement process to minimise the risk of compromising your process optimisation.

### ■ Effortless in-line analysis

Engineered with purpose and ease of use in mind, BallProbe® and TouchRaman® technology facilitate seamless data collection and a one-touch measurement method for even the harshest environments and demanding bioprocess settings.

### ■ Customisable solutions

Every user has specific needs and Ramina is designed to support those unique and challenging upstream and downstream applications by using easily interchangeable probes and flow cells that can be built to fit customised specifications at your request.

### ■ Optimised process control

This small-footprint process Raman system is sensitive to material integrity and sample changes and enables R&D success, supporting higher efficiency during upstream and downstream processes all with a simplified, intuitive user interface.



The Thermo Scientific™ Ramina™ Process Analyzer

### ■ Expert chemometrics assistance

Ramina is supported by a team of Thermo Scientific chemometricians and engineers who are available to provide rapid chemometric model-building assistance and application consultation. Using your calibration data, our specialists can build your models and provide a comprehensive model build report. Lean on our expertise and spend less time stressing about the math.

### ■ Versatility, adaptability, repeatability

Go from un-boxing to generating spectral data and results in less than 15 minutes with one-button hardware, stackable build and factory calibration. Ramina is easy to use and enables dependable, simple-to-execute Raman measurements by all professionals including non-Raman experts. ☒

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SCIENTIFIC

Learn more or request a demo at:

[thermofisher.com/ramina](https://thermofisher.com/ramina)

Stack it.  
Use it.  
Move it.  
Love it.



Learn more at [thermofisher.com/ramina](https://thermofisher.com/ramina)

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