



FTIR Spectrophotometers

Nicolet™ IR100 FT-IR



Simple to Use

The Nicolet IR100 spectrometer is a complete FT-IR system in one compact, easy-to-use package. It's the ideal FT-IR for teaching and analysing basic samples. The Nicolet IR100 spectrometer is exceptionally easy to operate. With this system, you can devote more time to teaching and running samples and less time to learning complicated software.



Compact Design

The Nicolet IR100 spectrometer is the industry's smallest spectrometer. The system's small size (19"w x 14"d) allows you to save precious laboratory space. And it's light - weighing in at only 35 lbs, so you can conveniently move it wherever it is needed.



Integrated Software and Local Control

The system comes complete with intuitive Encompass™ software viewable on a high-quality, colour LCD screen. No computer is required - saving you money and more lab space. The software uses a standard mouse or touch screen for easy operation. Encompass software provides intuitive navigation of essential operations making FT-IR analysis easier than ever before.

Proven Technology and Performance

The Nicolet IR100 spectrometer is sturdy and robust - built for student use. The design is based on Thermo Electron's proven line of FT-IR spectrometers. The system's Corner Cube™ optics provide worry-free operation without requiring complicated electronics and additional moving parts. In addition, many components of the spectrometer are user replaceable, which saves time and money over the lifetime of the instrument.

Nicolet 380 FT-IR Spectrometer

The Nicolet 380 FT-IR spectrometer is reliable for routine analysis FT-IR that offers complete solutions for your entire FT-IR process, from collecting data to reporting the results. Its simplicity and time tested reliability makes it ideal for both industrial and academic laboratories.

The Nicolet 380 FT-IR spectrometer is designed to make FT-IR easy. It uses complete system integration, plug and play sampling, and computer-based expertise to guide the user through all aspects of the sample analysis process with confidence. It can be configured with the full OMNIC™ software or with EZ OMNIC™, a beginner's software program for FT-IR. Built-in multimedia tutorials and spectral interpretation tools are added benefits for undergraduate courses or new user training.

The dynamically aligned interferometer and rugged design ensure reproducible measurements and make your results reliable for years after installation. State-of-the-art electronics give you quick response time, USB 2.0 interface, and other features such as the highest rate of rapid scanning among instruments in its class. The Nicolet 380 spectrometer is available for analysis in the far-, mid- and near-IR regions. It can also be configured with FT-IR microscopes to give you a truly evolved microanalysis system. In addition, this spectrometer can be used for TGA-IR analysis.

The Nicolet 380 is a smart system designed to improve your productivity. Revolutionary Enhanced Synchronisation Protocol (E.S.P.) technology provides features like accessory recognition, and diagnostics, experiment set-up, and system optimisation that greatly reduce the chances of user error.

Smart Accessories™ snap in place without needing alignment, and the system automatically customises and optimises your entire system for the measurement technique that best suits your sample type or problem. With E.S.P., you can have confidence in your measurements even if you are not an FT-IR expert.

The Nicolet 380 spectrometer's performance is guaranteed to be precise. Pinned-in-place optics give remarkable stability and reproducibility. This also allows for user-replaceability of most components resulting in much lower operational and maintenance costs. Data integrity is maintained through spectral quality checks that



examines your data and suggests improvements. Diagnostic checks monitor the status of the system and its components.

The system is compatible with a variety of tools to keep your process compliant with GLP, GMP and 21CFR part 11 requirements. It is fully equipped to meet all of your DQ, IQ, OQ, and PQ requirements. Throughout the spectrometer's lifetime, Thermo supports you with total quality - from manufacturing to installation to after-sales service.