

# AGILENT'S FTIR FAMILY LAB RESULTS, ANYWHERE YOU WANT

The Measure of Confidence



In the lab, in the field. Now we take you further.

Whether the sampling point is on an oil platform, in a museum, on the factory floor, or in the lab, Agilent offers the right product for your needs—from mobile systems for maximum flexibility to bench-top instruments offering the highest analytical performance.

The 4100 ExoScan, 4200 FlexScan, 4500, 5500 and Cary 630 FTIR are all built on the same compact, robust technology and utilize the same software design. This ensures you can take quality measurements wherever you need them — simply choose the model that best suits your application.

Agilent also offers the Cary 600 Series FTIR spectrometers and Cary 610/620 Microscopes, for the highest throughput and performance.

## Which FTIR is best for your application?

System	Industry	Examples
<b>4100 ExoScan/ 4200 FlexScan</b> Mobile, handheld, and non-destructive for solids and surfaces	Aerospace, Composites, Coatings, Art Conservation, Soils, Materials	Non-destructively identify contamination on automotive or aircraft parts
<b>4500 Series</b> Mobile, field measurement of solids and liquids	Energy, Fuels, Chemicals, QA/QC, Incoming Raw materials, At-Site/At-Line measurements, Forensics, Environmental	Measure fuel quality at a several different storage tanks or identify raw powdered materials in a truck at the loading dock
<b>5500</b> Routine, dedicated analysis of solids and liquids	Energy, Fuels, Chemicals, QA/QC, Incoming Raw materials	Identify raw powdered materials in a control room or office at the loading dock
<b>Cary 630</b> Routine, entry level lab analysis for a variety of sample types or applications	QA/QC, Academic, Pharma, Method development, Chemicals, Polymers	Run quantitative and identification methods on a variety of samples at a quality control lab



Shown from top to bottom: Agilent 4100 ExoScan, Agilent 4200 FlexScan, Agilent 4500 Series Portable FTIR, Agilent 5500 Series FTIR and the Agilent Cary 630 FTIR



Agilent Technologies

## Mobile and handheld instruments

### 4100 ExoScan FTIR

The Agilent 4100 ExoScan is a one module, 2.95 kg (6.5 lb) handheld system that is as versatile as it is rugged. With interchangeable sampling accessories, all of which can be changed in seconds without realignment, it is suitable for a wide variety of sample types and analytical needs, from identification to quantitation. The 4100 ExoScan provides the best of both worlds — offering the performance of a standard laboratory instrument and the flexibility of a handheld instrument. It is particularly suitable for non-destructive measurements of many surfaces including composites, coatings, minerals and soils, and valuable items such as artwork and archeological samples.

### 4200 FlexScan Handheld FTIR

The 4200 FlexScan handheld FTIR is capable of the same measurements as the 4100 ExoScan, however the electronics and optics are separate, creating a smaller optical compartment and sampling interface. This enables users to perform measurements in very tight spaces where the 4100 ExoScan may not fit. The 4200 Flexscan also has a dedicated sample interface to further reduce the size and increase the ease-of-use for field applications. With the common interface and identical performance, users can develop methods on the versatile 4100 ExoScan and then deploy with the compact 4200 FlexScan.

### 4500 Series Portable FTIR

The rugged and easy-to-use Agilent 4500 Series of portable FTIR analyzers supports at-site analysis of liquids and free flowing powders providing fast identification and quantitation. The 4500 Series features a self contained battery and is run by a handheld computer. Like the 4200 FlexScan, the 4500 Series uses a dedicated sample interface for easy field deployment. Several interfaces are available including ATR for identification, multi-reflection ATR for liquid measurement, and the proprietary TumbIIR and DialPath interfaces for quantitative measurements on liquids. The 4500 Series is ideal for proactive maintenance programs of high value equipment and machinery in construction and power production industries.

## Dedicated instruments

### 5500 Series FTIR

The Agilent 5500 Series bench top FTIR is designed for routine, dedicated analytical use, and provides accurate, fast results — day after day. Offering robust performance in a compact design, the 5500 Series is ideal for QA/QC labs, control rooms and loading docks. The intuitive MicroLab Software requires minimal training, and offers both identification and quantitative techniques. The 5500 is available in a variety of configurations including ATR, Multi-Reflection ATR, TumbIIR, and DialPath.

## In-lab instruments

### Cary 630 FTIR

The Agilent Cary 630 provides superior quantitative and qualitative information for routine analysis of solids, liquids, and gases. Built on the same technology as Agilent mobile products, the Cary 630 is innovative, intuitive and reliable. In contrast to the 5500 series FTIR, the Cary 630 offers greater sampling flexibility with a wide variety of interchangeable modules. Users can change sampling techniques from solids (ATR), liquids (ATR, DialPath, TumbIIR), to gases (transmission w/gas cell). The Cary 630 offers flexibility, performance and robustness for routine QA/QC labs and other multi-user, high traffic environments.

For more information visit the Agilent website at:  
**[www.agilent.com/chem/molecular](http://www.agilent.com/chem/molecular)**

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