

Agilent Cary 630 FTIR

Innovative, Intuitive, Reliable

Specifications



Innovative design

Innovative design, intuitive operation and engineered for reliability, the Cary 630 FTIR is a class-leading spectrometer for industrial applications as well as academic teaching and research support. Its ultracompact size, superior performance, versatility and ease of use make it an ideal choice for users that require a robust spectrometer for everyday, routine use. Also, when you get right down to basics, its spectrometer performance and how the spectrometer interfaces with the sample, which play the most important roles in getting great data. The sample interface governs everything from the ease-of-use of the FTIR system to the limit of detection achievable for a given analysis. The innovative Agilent Cary 630 sampling accessories are custom designed and optimized for the instrument. For example, the innovative design of the DialPath and TumbIR sampling technology provide the sensitivity of liquid transmission cells with the ease-of-use of ATR analysis. These customized sampling accessories provide the highest performance for real sample measurements.

Name	Value	Low Threshold	High Threshold
Water (Abs / 0.1mm) x10	0	30	
Ester Breakdown I (Abs / 0.1mm) x10	0	35	
Ester Breakdown II (Abs / 0.1mm)	35	110	
Acidewat (Abs / 0.1mm)	Outside Data Range	55	
EtOH (Abs / 0.1mm)	0	350	

Powerful method driven MicroLab software ensures you get the answers you need quickly and easy.



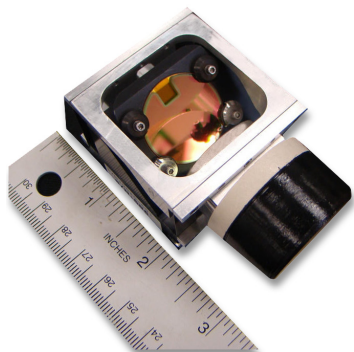
Just three simple steps to get an analysis: 1) Ensure the crystal is clean, and measure the background 2) Place your sample on the window, 3) Turn the DialPath to your required pathlength to analyze.



The Agilent Cary 630 FTIR sampling accessories are fully interchangeable and integrate into the optomechanical system.

Intuitive use

Instruments that are intuitive to use provide more reliable results by reducing the chance of human error. The Agilent Cary 630 pairs easy-to-use sampling accessories with method driven, push button software. Combined with features providing instant sample interface recognition and automatic diagnostics tests, the Cary 630 ensures that samples are measured consistently and correctly.



Measuring just 2 x 3 x 5 inches (8 x 8 x 13 cm) the Agilent Flexture interferometer combines a large optical aperture and ultrashort optical path, resulting in class leading performance and ruggedness.

Reliable results

An instrument needs to produce accurate and repeatable results day in, day out. The Agilent Cary 630 provides the sensitivity to produce both quantitative and qualitative results quickly, and the reliability to withstand the rigorous handling in the lab. The 630 uses the same unique Flexture based interferometer and solid state laser in a permanently aligned system as the Agilent 4100 Exoscan, the first handheld FTIR spectrometer. This provides years of reliable performance, ensuring consistent answers.

Technical specifications

Type	Specification
Interferometer	25 mm, permanently aligned, Michelson, 45°, mechanical flexure
Enclosure	Sealed and desiccated
Spectrometer interface	USB-2
Size	16 x 31 x 13 cm (6 x 12 x 5 in) (W x D x H with ATR)
Weight	3.8 kg (8 lb) (with ATR)
Sample interface	DialPath, TumbIIR, Diamond ATR, Diffuse Reflectance, Transmission
Software	Agilent MicroLab PC software, Automated IQ/OQ, 21 CFR Part 11 compliant, Resolutions Pro for advanced data analysis.
Power	110 – 240 VAC, 60/50 Hz
Spectral range	KBr 6300–350 cm ⁻¹ ZnSe 5100–600 cm ⁻¹
Spectral resolution	< 2 cm ⁻¹
Wavenumber accuracy	0.05 cm ⁻¹ Measured with ASTM 1921
Wavenumber reproducibility	0.005 cm ⁻¹ Measured with ASTM 1921
Warranty	Five (5) year interferometer, Five (5) year laser, Three (3) year source Location dependent
Hardware support period	Seven (7) years from date of last unit manufacture. After this time, parts and supplies will be provided if available
Software support	Software upgrades to add additional functionality will attract a fee.

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