

Agilent Cary 630 FTIR

Innovative, Intuitive, Reliable
Specifications



Innovative design

The Agilent 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 need a robust spectrometer for everyday, routine use.

The sample interface governs everything from the ease-of-use of the FTIR system to the quality of data achievable for a given analysis. The Agilent Cary 630 FTIR 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.



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

| Name | Value | Low Threshold | High Threshold |
|-------------------------------------|--------------------|---------------|----------------|
| Water (Abs / 0.1mm) x10 | 0 | 30 | 30 |
| Ester Breakdown I (Abs / 0.1mm) x10 | 0 | 35 | 35 |
| Ester Breakdown II (Abs / 0.1mm) | 35 | 110 | 110 |
| Bitumen (Abs / 0.1mm) | Outside Data Range | 25 | 25 |
| Free Alko (0.1mm) | 0 | 300 | 300 |

Powerful method driven MicroLab software ensures you get the answer you need quickly and easily.



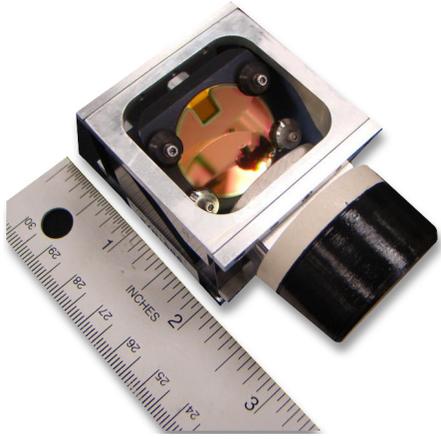
Just three simple steps to get an analysis: 1) Ensure the crystal is clean, and measure the background 2) Place your sample on the window, 3) Turn the DialPath to your required pathlength to analyze.

Intuitive use

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



Agilent Technologies



Measuring just 8 x 8 x 13 cm (2 x 3 x 5 inches) 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 FTIR provides the sensitivity to produce both quantitative and qualitative results quickly, and the reliability to withstand rigorous handling in the lab. The Agilent 630 FTIR 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 on the market. This provides years of reliable performance, ensuring consistent results.

Technical specifications

| Type | Specification |
|-----------------------------------|---|
| Interferometer | 25 mm, permanently aligned, Michelson, 45°, mechanical flexture |
| Enclosure | Sealed and desiccated |
| Spectrometer interface | USB-2 |
| Size | 16 x 31 x 13 cm (6 x 12 x 5 inches) (W x D x H) |
| Weight | 3.8 kg (8 lbs) |
| Sample interface | DialPath (30 to 250 μm), Tumbler, Diamond ATR, Diffuse Reflectance, Transmission |
| Software | Agilent MicroLab PC software, Automated IQ/OQ, 21 CFR Part 11 compliant, (optional) Resolutions Pro for advanced data analysis. |
| Power | 110 – 240 V AC, 60/50 Hz |
| Spectral range | KBr 7000–350 cm ⁻¹ ZnSe 5100–600 cm ⁻¹ |
| Spectral resolution | < 2 cm ⁻¹ |
| Wavenumber accuracy | 0.05 cm ⁻¹ Measured with NIST 1921 |
| Wavenumber reproducibility | 0.005 cm ⁻¹ Measured with NIST 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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