

AGILENT 4300 HANDHELD FTIR WITH DTGS DETECTOR

The Measure of Confidence



For mobile, easy to use, non-destructive FTIR analysis

The Agilent 4300 Handheld FTIR is the first of its kind employing lightweight ergonomics, ease of use, ruggedness, and flexibility into one system. With its lighter weight and new design, the ergonomics of the system make it ideal for field use and deployment into non-laboratory situations.

The 4300 Handheld FTIR with DTGS detector (G8181AA) is the next leap in technology by Agilent in Handheld FTIR. It offers a variety of sampling interfaces (Diffuse Reflectance, External Reflectance, Grazing Angle, Diamond ATR, Ge ATR) and allows you to easily transition from one sample type to another while on the go, with no alignment or adjustments necessary. Sample types typically include infrared absorbing and scattering surfaces, reflective metal surfaces with coatings and films as well as analysis of bulk materials including powders and granules.

The hardware design, along with the easy to use MicroLab Mobile software, guides users from all experience levels to quickly utilize the system on the go. The high performance optics employed in the instrument allow for even the most difficult samples to be easily measured. This makes the 4300 Handheld FTIR ideal for a variety of non-destructive analysis applications. The analysis of polymers, coatings, composites and even historical artifacts and artwork can easily be done *in situ* without destroying the sample or removing it from its location. These benefits also make the 4300 Handheld FTIR the optimal analytical tool for both geological and soil science studies.

Product highlights

- Small and lightweight
- Highly accurate mid-IR analysis
- No sample preparation
- Designed for field use
- Hot swappable battery capability for extended usage
- Integrated CPU for ease of use
- USB connection to any computer, if necessary
- Interchangeable, auto-recognized sampling interfaces
- Water-resistant for inclement weather conditions

4300 DTGS system specifications

- Size: 10 x 19 x 35 cm (4 x 7.5 x 13.6 in)
- Weight: 1.88 kg (4.15 lbs) without batteries; 2.22 kg (4.9 lbs) with batteries
- Power: Two (2) Internal batteries (3 h), 100/120/240 V AC, 50/60 Hz
- Spectral range DTGS: 4500–650 cm^{-1}
- Resolution: 4–16 cm^{-1}
- Controller: Integrated CPU with Microsoft Windows CE 6.00 Edition
- Software: Can be operated by Agilent MicroLab PC or Mobile software
- Warmup time: 10 min
- Response time: 2 min

Durability

- Operating temperature: 0–50 °C (32–122 °F)
- Storage temperature: -25–75 °C (-13–167 °F)
- Humidity: 95% non-condensing
- Water resistance: completely sealed spectrometer compartment
- Shock withstands 40 G on each axis (in shipping case)
- Vibration withstands 60 Hz for 30 min



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