

## FT-IR Spectroscopy



## Spectrum Two for Fast, Easy Environmental Analysis

The requirement for accurate determination and monitoring of hydrocarbon levels in our environment spans many industries – from industrial waste-water monitoring to land

reclamation and decommissioning of fuel storage facilities. Spectrum Two™ enables rapid and sensitive analysis of hydrocarbons in water and soil, for both laboratory and field-based analyses.

Strict regulations demand reliable results and compliance. Whether in the laboratory or on site, Spectrum Two makes water and soil analysis simple through its intuitive interface and dedicated Environmental Hydrocarbon FT-IR Analysis Pack. With this out of the box solution, operators possess everything they need to perform analyses to industry standards, no matter their background, experience, or location.

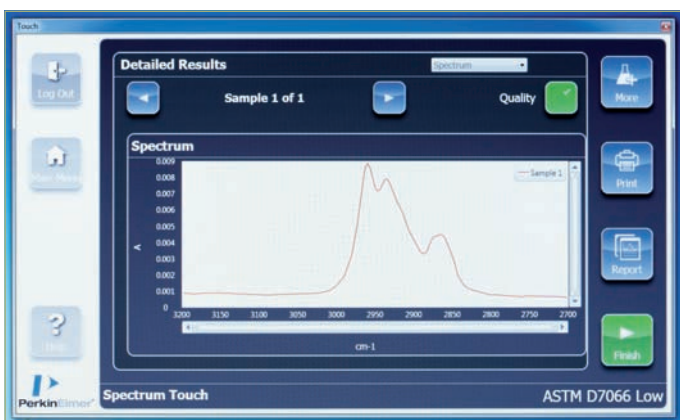
### IR Ready to Go

Groundbreaking design features and a dedicated environmental industry analysis pack ensure anyone can be an IR expert.

- Unique software interface Spectrum Touch™ is designed to simplify user interaction. Complex analyses can be performed at the push of a single button via an intuitive touch screen interface.
- Clear step by step instructions enable inexperienced users to get up and running with ease.
- Every required sampling accessory and tools is supplied, for maximum convenience.
- Environmental-specific SOPs and reference guide provides swift contamination status.



Touch App software provides intuitive operation.



Regulated hydrocarbon measurement of water and soil samples.

## Reliable Results, Everywhere

Hydrocarbon analysis requires a low margin of error. In analysis of trace elements in water or soil samples, generating results that comply with strict legislative rules is important. Repeatability of results and reliability in the field can be guaranteed with Spectrum Two. Environmental analysis requires an instrument that's portable, tough and ready for action.

- Battery power options and compact size simplifies transportation to non-laboratory environments for easy analysis where mains power is not available.
- Dynascan™ Interferometer design provides exceptional spectral quality, while its non-critical bearing delivers unmatched longevity and reliability.
- Protection from the elements is ensured with OpticsGuard™, a unique humidity shield, which provides maximum instrument uptime and reduces maintenance costs.

## Simplified Analysis

With Spectrum Two, samples can be run in a central laboratory or in remote locations with no compromise in performance. The FT-IR applications pack provides users with all they need to know to generate results that meet the same quality standards expected from a full-service laboratory. Spectrum Two supports ASTM standard D7066 for analysis with halogenated extraction solvents, and features an alternative cyclohexane method for hydrocarbon solvent transmission analysis. An additional HATR method provides maximum extraction solvent flexibility.

Environmental industry-specific Touch App™ software provides an intuitive touch screen interface and guides users through each step in analysis. The application software kit supplies all the information needed, taking ease-of-use to a new level and enabling non-skilled users to run sophisticated IR analysis at the touch of a button. SOPs and step-by-step instructions for water and soil sampling minimize operator error.

An optional ATR based method allows operators to use any volatile solvent and obtain the full spectrum of the sample, while supplied macros can be updated or edited by the user to suit the requirements of their site. Plus, unlike dedicated analysers, Spectrum Two also has the performance capability and sampling flexibility of a FT-IR and can be expanded to perform many other test methods.

For more information, visit [www.perkinelmer.com/spectrumtwoenvironmental](http://www.perkinelmer.com/spectrumtwoenvironmental)

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