



## PerkinElmer Launches Frontier™ Infrared Spectrometer to Meet Advanced Analytical Challenges

SEER GREEN, UK – [PerkinElmer Inc.](#), a global leader focused on the health and safety of people and the environment, today announced the launch of the [Frontier™ Infrared Spectrometer](#), a high performance infrared (FT-IR) spectrometer built using [PerkinElmer's industry-leading spectroscopy expertise](#).

Part of a new family of spectrometers, the Frontier analytical platform meets diverse FT-IR challenges ranging from everyday measurements to the most advanced, complex analyses. The instrument combines best-in-class sensitivity with flexibility for many diverse sectors, from polymers and chemicals to consumer goods and pharmaceuticals, helping to protect consumers and the environment across the world.

Delivering unmatched respectability of transmission spectra, Frontier's superb sensitivity and configurability ensure superior performance in demanding applications, helping to advance safe drug development, understand complex chemical and material properties, and meet the challenging requirements of research and academia.

Dusty Tenney, president, Analytical Sciences and Laboratory Services, PerkinElmer, commented, "With more than 65 years of experience in spectroscopy, PerkinElmer has now developed a specialized infrared spectroscopy platform that can be adapted for customers' research requirements. With Frontier, multiple analyses can be conducted using a single instrument. From near- to far-infrared analysis, Frontier is our most powerful spectrometer to date."

Frontier is a powerful, configurable FT-IR spectrometer that can be expanded as research goals develop. Offering more optimized sampling options than any other FT-IR in its class, Frontier's optical flexibility enables the addition of a vast array of specialized accessories to meet a wide range of sampling challenges; whether checking for batch conformity or micro contamination. A modular and upgradeable platform combined with exceptional signal-to-noise ratio assures optimal spectral performance for near-, mid- and far- infrared spectroscopic analysis. The unique automated range changing capability allows multiple techniques to be utilized at the touch of a button, with the flexible optical system also permitting the addition of microscopy and imaging systems for detailed materials analysis.

A range of patented PerkinElmer technologies enable the Frontier to produce superior infrared spectra. Atmospheric Vapor Compensation™ (AVC) features an advanced digital filtering algorithm designed to eliminate CO<sub>2</sub> and H<sub>2</sub>O interferences for accurate FT-IR results. The fifth generation Dynascan™ fixed mirror pair interferometer requires no dynamic alignment to compensate for errors in linear mirror movement. PerkinElmer's AVI Standardization™ calibrates spectrometer wavelength scales to a higher accuracy than achieved with conventional calibration methods.

For further information on PerkinElmer's infrared spectroscopy solutions, please visit [www.perkinelmer.com/ftir](http://www.perkinelmer.com/ftir)

### About PerkinElmer, Inc.

PerkinElmer, Inc. is a global leader focused on improving the health and safety of people and the environment. The Company reported revenue of approximately \$1.7 billion in 2010, has about 6,200 employees serving customers in more than 150 countries, and is a component of the S&P 500 Index. Additional information is available through 1-877-PKI-NYSE, or at [www.perkinelmer.com](http://www.perkinelmer.com).

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