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Portable FTIR Spectrometer "Exoscan"



The Polytec GmbH, Waldbronn offers with its partner A2Technologies the portable FTIR spectrometer „Exoscan“ for non-destructive on-site surface and bulk analysis applications.

The innovative analyzer is designed to move spectroscopy out of the laboratory and into the field. Weighing less than seven pounds, the “Exoscan” features superior ease of use, coupled with analytical performance that rivals far larger and more expensive traditional analytical FTIR spectrometers.

The revolutionary optical system of the “Exoscan” is a monolithic, highly rugged infrared modulator that enables routine operation of the system in non-routine applications and environments without sacrificing performance.

This system operates in the 4000 to 650 wavenumber mid-infrared region and is capable of 4 cm^{-1} resolution. Additionally, the analyzer is equipped with three-level software architecture, providing methods development, supervisory and operator functionality.

The system is powered by an on-board rechargeable Lithium ion battery or from AC power. Featuring interchangeable internal reflectance (ATR) and external reflectance sampling interfaces, this system is ideal for sampling a wide variety of materials including solids, pastes, gels and liquids. Coupled with the unique diamond internal reflection sampling setup, this system is also capable of large surface analysis.

Controlled and operated via a PDA device, the “Exoscan” spectrometer combines all the unique capabilities of a laboratory-based FTIR with the advantages of a portable instrument that can be used in the field, ensuring real time results. Capable of non-destructive analysis, this new analyzer is ideal for applications for which the sample is too large to bring to the laboratory or too valuable to require a small portion to be removed for analysis.

Use the “Exoscan” to determine if:



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- A metal surface is properly cleaned in preparation for a manufacturing process such as painting or coating.
- A surface is properly prepared for a bonding process.
- The correct coating has been applied to a surface and that the thickness of that coating is accurate and precise.
- A surface has the expected homogeneity.
- Anodization processes have been carried out correctly.
- Spots, streaks, stains or blemishes on a surface are of concern.
- High value composite material has been damaged by heat, UV, or chemical exposure.
- Polymers and composites are properly cured.
- Incoming raw material and outgoing finished products meet specifications.
- Solids, liquids, gels and pastes meet specifications