

Czitek **Simplifying FTIR Spectroscopy**



Czitek is a privately held USA company dedicated to development and marketing of products for optical spectroscopy. Our mission is to Simplify Spectroscopy for our customers!

Czitek is focused on FT-IR accessories that incorporate microspectroscopy and sample imaging for cost-effective, easy-to-use solutions. We are located in Danbury, CT with a full complement of staff and facilities to provide innovative product development, manufacturing, market development and service to help solve our customers' analytical challenges.

We have assembled a team that has over 170 years of combined experience in the development, marketing, and manufacture of leading technological advancements in optical spectroscopy, diamond optics, in-situ reaction monitoring and portable, ruggedized spectrometer instruments for in-field chemical identification. Our team's innovations have had an impact on many industrial applications as well as defense and security. Over the course of more than thirty years, our team has designed, manufactured, and supported many ground-breaking spectroscopy accessories and instruments for brand-leading, marquee companies.

Let Czitek make your job easier through cost-effective easy to use instrumental and sampling solutions.

MicromATR Vision™

MicromATR is a new attenuated total reflectance (ATR) accessory for all FTIR spectrometers. MicromATR Vision combines a rugged and versatile diamond ATR sample interface with an integrated video camera, allowing you to see and target exactly what you're measuring. This combination makes it easy to align small samples for precise measurement and provides sample documentation. Using a USB interface and Czitek's eSpot™ software, the MicromATR Vision provides a modern, intuitive interface. In addition to the advantages of viewing, the MicromATR Vision provides the broadest range of diamond ATR interface options including multi-reflection diamond elements, heated, and flow through configurations. Many other ATR crystal materials are also available.

SurveyIR™

Czitek's SurveyIR™ is a new FT-IR Microscopy accessory designed to deliver the ultimate user experience for a broad range of microanalysis techniques. SurveyIR's compact configuration and alignment free optical design facilitates simple mounting in any FTIR spectrometer sample compartment. IR

microspectroscopy performance is leveraged with the FTIR's on-board detector, delivering reflection, transmission, and attenuated total reflectance (ATR) analysis modes. Research-grade images of the specimen are produced with a high-resolution digital camera. Three on-board sample illumination modes provide excellent image quality even through the diamond ATR element. eSpot™ software facilitates image display, manipulation, capture, documentation and storage. Sample manipulation is accomplished by adjustment of standard microscope controls.

Product Development and Analytical Services

Czitek's personnel are seasoned experts in analytical instrumentation development. We can provide a full range of product development, application development, and spectroscopy analytical services. Our expertise includes optical system design, modelling, and prototyping, mechanical engineering, embedded systems, analog circuit development, and software development. We also offer expert scientific services in spectroscopy including analytical methods development, data analysis, spectral interpretation, and unknown identification. We have a well-outfitted facility including numerous spectrometers. Czitek are experts in FTIR microspectroscopy instrumentation, methods, and applications and offer professional microanalysis services.

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