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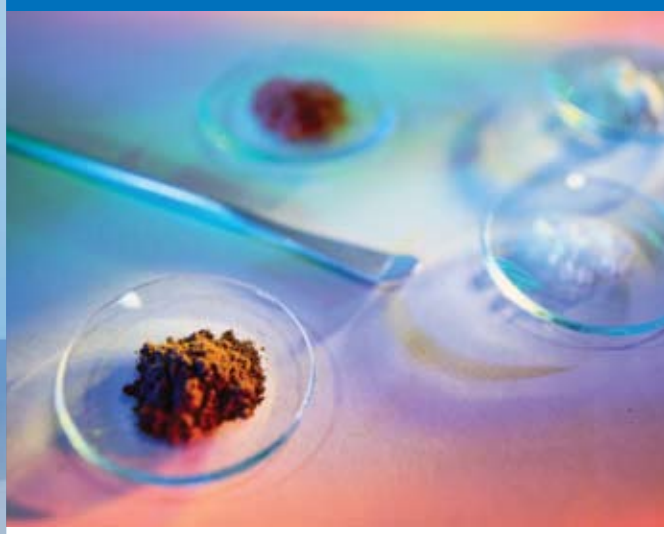
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Bruker Optics







TENSOR Series FT-IR Spectrometers

If you need a FT-IR spectrometer that can rapidly identify, quantify and verify your routine samples, TENSOR is the right tool for your laboratory. It combines highest performance and outstanding flexibility with an intuitive and easy-to-operate interface.

- Permanently aligned cube corner RockSolid* interferometer
- Fully digital electronics with unmatched signal-to-noise performance
- Sealed interferometer compartment, excellent purge design
- Mid-IR, Near-IR, and Far-IR capability
- Easy-to-exchange QuickLock sample compartment accessories
- Automatic H_2O and CO_2 compensation
- Dedicated QA/QC validated software with 21 CFR Part 11 compliance

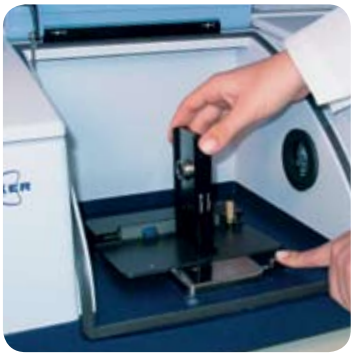
High Performance

TENSOR is designed for today's laboratory requirements. It combines easy operation with highest instrument performance and affordability. TENSOR provides high sensitivity performance with the permanently aligned, high throughput patented RockSolid* cube corner interferometer. Unlike a conventional flat mirror interferometer, cube corners optically eliminate alignment errors.

TENSOR series FT-IR spectrometers are fully digitized and provide the highest flexibility and at the same time the highest instrument performance. The data acquisition is based on delta-sigma ADCs with true 24-bit dynamic range, which are integrated into the detector preamplifier electronics. Bruker's patented advanced DigiTect* technology prevents external signal disturbance and guarantees the highest signal-to-noise ratio.



The TENSOR 37 can easily be expanded to the Near-IR and/or Far-IR spectral range.



A wide range of accessories can be mounted on the proprietary QuickLock baseplate for quick, easy, and reproducible mounting in the sample compartment.



Sampling capabilities can be expanded with external accessories, like the HYPERION IR microscope, VCD module, TGA interface, HTS-XT and etc.

Easy to Use

Customizable workspaces, easy measurement mode and wizards to guide you through the setup of analytical methods are standard in the OPUS software. All manipulation and evaluation routines are designed for multiple file operation. These factors make learning the software and operating the instrument so easy that even untrained personnel can work with a TENSOR series spectrometer.

Bruker Artificial Intelligence Network

A TENSOR series spectrometer automatically recognizes optical components (like source, beamsplitter, detector, or laser) and sampling accessories. All relevant parameters are transferred to the software for the user to immediately start a measurement. The TENSOR utilizes the Online PerformanceGuard to ensure that all optical components, automation units and accessories are continuously monitored.

Flexibility

TENSOR series spectrometers can be used for basic quality control and expanded to a full research system. A full line of FT-IR accessories enable the user to choose sampling methodes with ease. The TENSOR has the flexibility to couple external sampling modules for demanding application like FT-IR micro-analysis, thermogravimetric coupling, high throughput screeing devices, and hyperspectral imaging. A variety of sample compartment accessories and external accessories complete the needs of your application.

Expandibility

The TENSOR 37 spectrometer allows the user to easily exchange the optical components and expand the spectral range to the Far-IR region or convert the system to a powerful FT-NIR spectrometer system. FT-NIR spectroscopy offers distinct advantages. Usually samples are measured without dilution. Since glass vials are transparent to NIR, the samples can be analyzed in their containers. Quartz fiber optics allows the NIR light to be transmitted over long distance for remote measurement and process control.

Validation

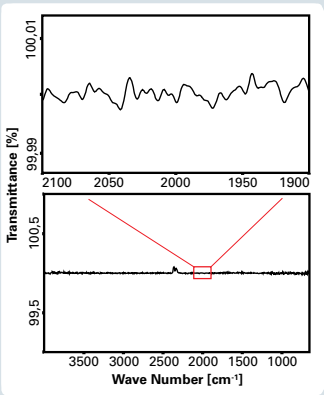
TENSOR is designed to deliver dependable and reliable results for each measurement. The internal validation unit (IVU) has built-in standards that test the accuracy and precision of the system. OPUS software integrates full 21 CFR part 11 and GLP compliance, and supports your IQ/OQ/PQ.

* covered by one or more of the following patents: US 5,309,217; US 7034944; DE 4212143; DE 10159721

High Sensitivity

Compare today's routine FT-IR spectrometers and you'll discover that you must often sacrifice performance for affordability. We at Bruker believe that quality optics and high performance should be available even in an instrument designed for routine use.

The TENSOR series provides sensitivity that rivals most other manufacturers "research" models. It offers an achievable signal-to-noise ratio (SNR) of better than 8000:1 peak-to-peak using 5- second acquisition time conditions and better than 45,000 peak-to-peak using 1-minute measurement conditions. Experience the TENSOR series advantage of superior sensitivity for faster, more accurate results.



TENSOR offers highest sensitivity

- 5 second background acquisition time
- 5 second sample acquisition time
- 4 cm^{-1} resolution
- Blackman-Harris apodization
- KBr beamsplitter, room temperature detector and air cooled MIR source
- peak-to-peak noise 2200 - 2100 cm^{-1}

Bruker Optics is ISO 9001 certified.

TENSOR 27 = Laser class 1
TENSOR 37 = Laser class 2

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