

thinkforward

TENSOR is designed to meet the demands of today's and tomorrow's analytical laboratories. It combines the highest performance and outstanding flexibility with an intuitive and easy to operate interface.



TENSOR series

- Easy operation
- Unmatched signal-to-noise performance, outstanding stability
- Excellent purge design
- Mid-IR, Far-IR and Near-IR capability
- Proprietary ultra-low noise electronics technology
- 21 CFR Part 11 compliant

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 the highest performance and outstanding flexibility with ease of use. A full line of FT-IR accessories enable the *TENSOR* series to be used for micro-analysis, thermogravimetric analysis, proteomics and more.

The Bruker Artificial Intelligence Network (BRAIN) is a network of intelligent features that make FT-IR spectroscopy easy, fast and reliable. Online PerformanceGuard™ insures for accurate results, allowing no room for error. All optical components, automation units and accessories in the *TENSOR* are monitored continuously.

All over the world, no matter where you are, plug in the power and Ethernet connections, and the *TENSOR* is ready for operation. *TENSOR* installation is easily finalized through the OPUS software, the most powerful software in the industry. Multimedia tutorials help train new users.

When a sampling accessory is placed in the sample compartment or a component (like source, detector, beamsplitter or a laser) is changed, it will be instantly and automatically recognized by *TENSOR* and all relevant parameters transferred to the software, so that you can immediately start your measurements.



TENSOR™ is an easy to use routine FT-IR spectrometer that can be configured to your needs.



Easy-to-use OPUS software with full 21 CFR Part 11 and GLP compliance.



TENSOR 37 offers easy beam-splitter exchange that enables range extension.



QuickLock™ base plate for easy exchange of sampling accessories.



TENSOR 27 and **HYPERION** FT-IR microscope

TENSOR series

Easy operation

TENSOR is designed for today's laboratory requirements. It is based on the concept of combining easiest operation with highest instrument performance and flexibility. An extended network of functionality makes the TENSOR easy to operate:

- QuickLock™ accessories
- Automatic H₂O and CO₂ compensation
- Dedicated QA/QC software
- Self-optimizing evaluation methods
- Multimedia tutorials and help

Sensitivity

TENSOR provides highest sensitivity performance with the permanently aligned, high throughput patented RockSolid™ interferometer. The data acquisition is based on free running delta-sigma ADC's with true 24-bit dynamic range, which are integrated into the detector preamplifier electronics. The advanced DigiTect™ technology prevents external signal disturbance and guarantees the highest signal-to-noise ratio.

Flexibility

A full line of sampling accessories is available. A variety of external accessories complete the field of applications: HYPERION IR-microscope, TG- coupling and many others. Bruker Optics offers complete solutions for the life science applications.

Expandability

Use the advantages of NIR for your quality control and assurance applications. The TENSOR 37 can easily be expanded to the NIR range, enabling you to use a full line of NIR sampling accessories.

Reliability

TENSOR is designed to deliver dependable and reliable results in every measurement. The internal validation unit (IVU) ensures correct measurement results. TENSOR integrates full 21 CFR part 11 and GLP compliance, support your IQ/OQ/PQ.



TENSOR series offer a large sampling compartment that can accommodate any FT-IR sampling accessory from any vendor.



External sampling accessories, such as the HTS-XT high throughput screening microplate reader (above) and other autosamplers for solids and liquids extend automation capabilities of the TENSOR series.



NIR fiber optic coupling unit enables the use of handheld fiber optic probes for easy sampling.

CLASS 1 LASER PRODUCT

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