

MB3000
Always ready. Every day.

**The most reliable FTIR system.
The lowest cost of ownership.**



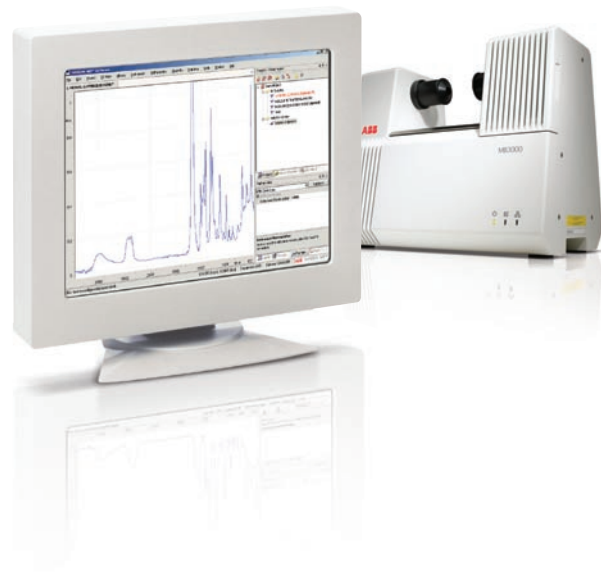
ABB

The best replacement solution

The new MB3000 spectrometer and the HORIZON MB™ Software from ABB Bomem

constitute the most reliable FTIR system in the market with the lowest cost of ownership.

Easy to use and maintenance free, it will provide constant analysis results for years to come.



TECHNICAL SPECIFICATIONS

The MB3000 spectrometer from ABB offers a level of performance that will meet your spectral analysis needs.

Signal to noise ratio: 50 000: 1 or better.
(Ultimate 250 000 : 1)

Spectral Range: 480 to 10 050 cm^{-1}
(ZnSe optics — non-hygroscopic).

Resolution: 0.5 cm^{-1}



MAXIMUM RELIABILITY FOR CONSTANT RESULTS

A permanently aligned optical system. The innovative double pivot interferometer is designed to ensure increased robustness. The cube corner mirrors are permanently aligned with no need for dynamic alignment. The interferometer has a life-time warranty. Reproducible spectroscopy is a key feature.

Rugged and durable modules. The best extended product lifetime in the market. Comes with a life-time warranty against damage or degradation due to moisture.

Minimal components. Integration of dependable components in a system requiring minimal efforts to install.

MAINTENANCE FREE

No consumables. No wear of components. No components to replace or adjust. No hygroscopic optics. No purge required. No HeNe LASER.

Sources with a 10-year average lifetime. Maintenance free with no downtime as well as great sensitivity for better results.

EASE OF USE FOR SIMPLIFIED OPERATION

Intuitive software. The HORIZON MB™ FTIR Software facilitates the acquisition, processing and analysis of samples as well as managing results.

Easily adaptable. The MB3000 and the HORIZON MB™ Software are designed for a simple, logical and effective equipment transition.

Extensive built-in Health monitoring. This preventive system detects potential component malfunctions before the unit or analysis results are compromised, giving you maximum confidence in your data.

THE BEST PRICE/PERFORMANCE RATIO

The performance you need. The MB3000 not only meets performance criteria regarding sensitivity, spectral range and accuracy, it also meets your primary concerns: ease of use, maintenance free, reliability and constancy.

An excellent replacement solution. The MB3000 is maintenance free and its reliability combined with its affordability make the MB3000 the spectrometer with the lowest cost of ownership in the market.

VERSATILE AND COMPLETE

Wide range of accessories: addressing all your sampling needs.

Standard open sample compartment. The practical and very flexible sample compartment can hold a large variety of analysis accessories.

LOCAL SUPPORT

You can always count on our dedicated team for fast, efficient and worldwide support.

AN ABB PRODUCT

A Bomem Heritage. The MB3000 is the result of more than 30 years of development and experience in FTIR for space, chemical, pharmaceutical and petrochemical process and Lab industries.

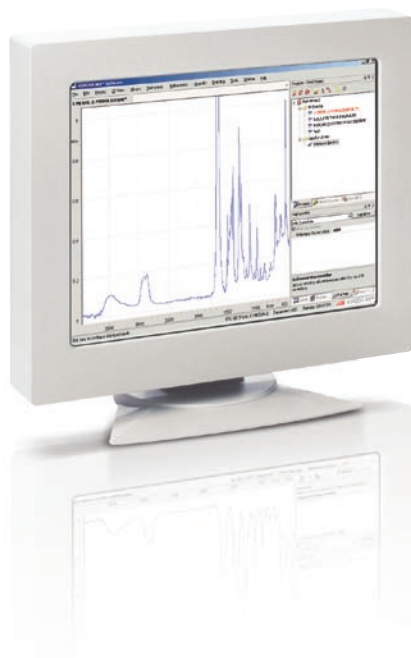
Developed by Dr. Henry Buijs, a world-renowned expert recognized for his applied research in spectroscopy.



HORIZON MB™ FTIR Software

EASE OF USE AND VERSATILITY

Take advantage of your MB3000. The HORIZON MB™ FTIR Software facilitates the acquisition, processing and analysis of samples as well as managing results. Its logical and customizable interface allows you to configure your work environment and select data format according to your needs. With many Import and Export options, Data Conversion becomes an asset and is no longer a problem! Stepping up to the new HORIZON MB™ FTIR Software is easy and transition is smooth. No specialized knowledge is required to use the software. Two versions for two different types of work:



Accessories

The MB3000 comes with a complete offering of easy exchangeable accessories. They are pinned-in-place with no need of alignment.

The MIRacle™ is an universal ATR sampling accessory for the analysis of solids, liquids, pastes, gels, and intractable materials addressing the most common sampling needs.

OTHER ACCESSORIES OFFERED

Horizontal ATR, Demountable Liquid Cells, DRIFT, Gas Cells, Specular Reflectance with fixed and variable angle, Micro sampling with Bean condenser or Microscope

The open and flexible sample compartment can also accommodate many existing and 3rd party accessories. The sample compartment can be purged if needed.

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LABORATORY USE VERSION

Intuitive. Easy to use. Efficient data conversion. Numerous languages. CFR21 part 11 compliance features. Information at a glance

Five add-on modules are offered.

Professional module

3D and extended import/export functions.

Library module

Spectral data and multiple library search capability.

Quantify module

Chemometric tools for uni- and multivariate modeling.

Scripting module

Powerful Basic scripting engine
(SAX Basic recording capability).

Pharma module

Additional CFR21 part 11 compliance features.

QA APPLICATIONS VERSION

Workflow guided. Users can monitor the progress of data acquisition. Extensive reporting capability. For the advanced application user, configurations can be created and modified with the Configuration Tool.

Interactive and intuitive interface

Easy to set up

Data acquisition monitoring

Extensive reporting

