



Quantum Design

LATIN AMERICA

Raising The Science

Materials Science

Spectroscopy

Cryogenics

Optics

Nanoscience

Sample Synthesis

Biotechnology & Chemistry

Industries

Microscopy

Quantum Technology

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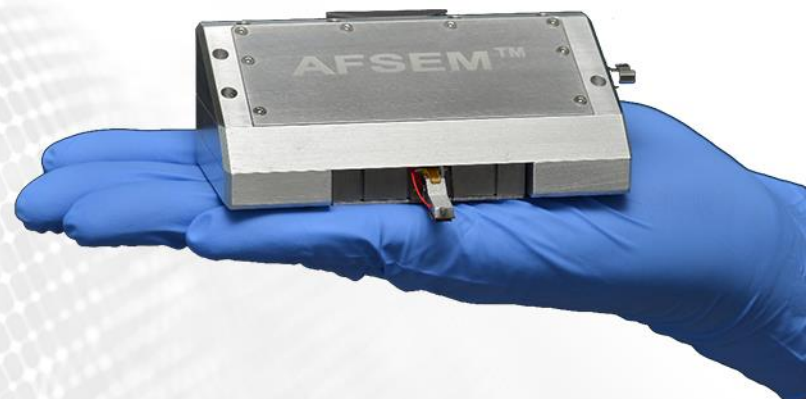


GETec was founded in 2011 and is composed by a multidisciplinary team consisting of specialists in the fields of physics, electrical and mechanical engineering, biological sciences, semiconductor and MEMS processing to develop ways helping customer achieving their unique results and correlated data.

The AFSEM™ from GETec provides a powerful new capability that joins the forces of AFM and SEM. AFM imaging in all the conventional AFM modes is now possible simultaneously under an SEM beam without disruption to either technique, whether with or without add-ons such as EDX or micro-indenter. Through its unique design and the use of self-sensing cantilevers, the unit is the first crossplatform AFM that can be integrated into all major commercial SEMs. Providing all the advantages described above, it represents an accessible innovation with significant capability enhancement for materials science research. It does not matter the size of your sample – AFSEM goes to the sample, wherever it is.

Key features:

- Correlated microscopy: AFM and SEM data simultaneously and on the same area
- Fast & Easy image acquisition due to novel self-sensing cantilever technology
- Electrical cantilever readout: no interferometer (lot less space)
- FIB-assisted nanomechanical 3D reconstruction possible
- AFM/SEM/EDX combined
- Sub-nm Z-resolution



Most common applications:

- Measure electrical & magnetic properties
- Measure mechanical properties and fractures
- Fracture Mechanics
- Electrical Characterization
- Nano-Indentation
- Electron Backscatter Diffraction
- Biological samples: spores, bones, cells, soft tissues
- 2D materials: nanomechanics
- Roughness Analysis
- Real 3D topography

BIG AREAS

Biotechnology and Chemistry | Industries

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