NenoVision

NenoVision is a technology company developing and manufacturing a unique **atomic force microscope (AFM) LiteScope™**, **designed for fast and easy integration into scanning electron microscopes (SEMs)**. It allows scientists do measurements and analyses, which are normally nearly to impossible, time consuming or very expensive.

MAIN BENEFITS OF AFM-in-SEM SOLUTION

• Complex and correlative sample analysis

A unique method of multidimensional correlative imaging (CPEM) enables **simultaneous acquisition** of the data from **SEM and AFM**, and their seamless **correlation into 3D images**.

• In-situ sample characterization

Both AFM and SEM measurements are done at the **same time**, in the **same place** and under the **same conditions**, preventing sample contamination, transfer or degradation of sensitive samples.

Precise localization of the region of interest

An extremely precise and **time-saving** approach uses SEM to localize and navigate the AFM tip to the region of interest.

AFM-in-SEM CORRELATIVE MICROSCOPY, FUTURE OF NANO-SCALE IMAGING

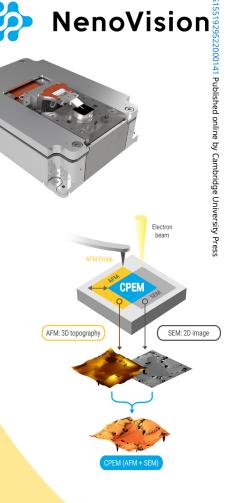
NenoVision has developed a unique technique for correlative measurements called CPEM[™] (Correlative Probe and Electron Microscopy). CPEM enables to **simultaneously acquire various AFM and SEM signals** covering surface topography, mechanical, electrical, electromechanical and magnetic properties, SE, BSE, and other SEM images. **The CPEM technology allows various AFM and SEM signals to be directly correlated** with exceptional precision into 3D images.

PRINCIPAL MEASUREMENT MODES

- Topography (AFM)
- Mechanical (Energy Dissipation, FMM, Nanoindentation)
- Electrical (C-AFM, KPFM)
- Magnetic (MFM)
- Electro-mechanical (PFM)
- Spectroscopy modes (F-z curves, I-V curves)

MAIN APPLICATION AREAS

- Material science (1D and 2D materials, Steels & metal alloys, Batteries, Ceramics, Polymers & Composites)
- Nanostructures (Modified surfaces FIB/GIS, Quantum dots, Nanostructured films, Nanopatterning, Nanowires, EBIC, ToF-SIM etc.)
- Semiconductors (Integrated circuits, Solar cells, MEMS/NEMS, Failure analyses, Dopant visualization, Current leakage localization)
- Life science (Cell biology, Marine biology, Protein technology)



How to find us

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