NenoVision

Next level of imaging

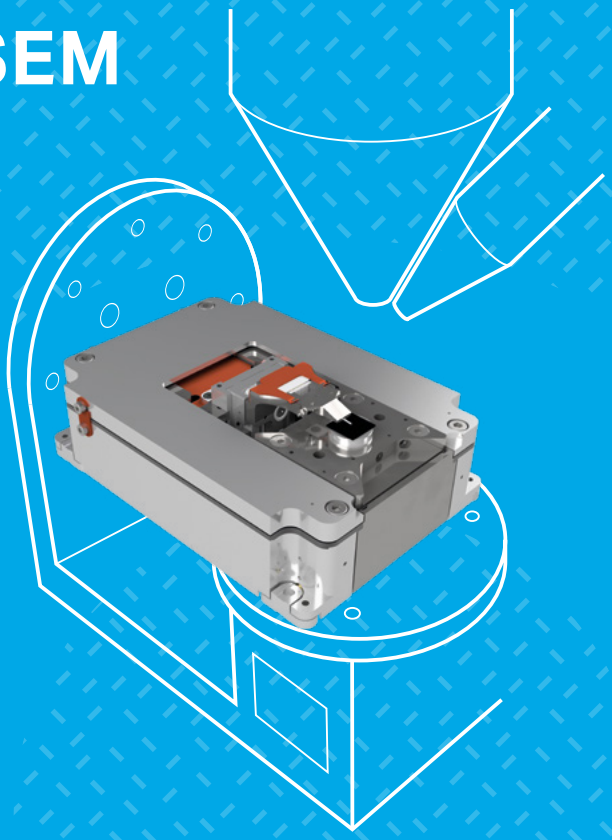
LiteScope AFM-in-SEM

Product note

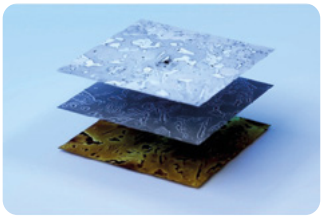
LiteScope is **a cutting-edge plug and play solution** that enables **in-situ AFM-in-SEM** measurement and offers a wide range of possible application techniques.

The compact design and **a state-of-the-art digital signal processing** unit enable to analysis a broad range **of mechanical, electrical and magnetic properties** of a sample.

- **In-situ multimodal & correlative analysis**
- **Optimized & time-efficient workflow**
- **Ultimate performance inside SEM**
- **Open-hardware design for easy customization**

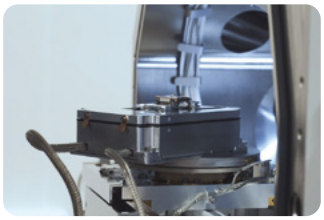


Key technology benefits



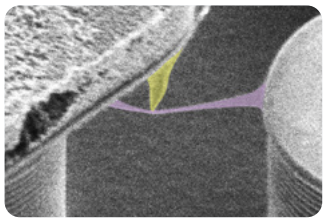
Correlative multimodal sample analysis

Cutting-edge CPEM technology allows **the simultaneous acquisition of AFM and SEM** data and **their seamless correlation**.



In-situ sample characterization

In-situ conditions inside the SEM ensure sample analysis at the **same time**, in the **same place** and under the **same conditions**.



Precise localization of the region of interest

Extremely precise and time-saving approach **uses SEM to navigate the AFM tip** to the region of interest, enabling its fast & easy localization.

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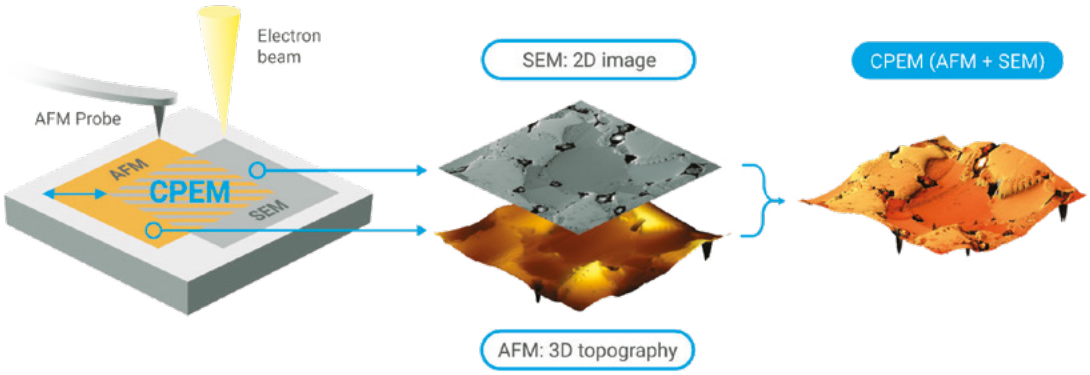
Correlative Microscopy & CPEM+

Correlative Probe and Electron Microscopy (CPEM+) represents the revolutionary technology for **In-Situ Correlative Microscopy**.

Hardware correlative technology, enabling **simultaneous acquisition of SEM and AFM data**, and their automated seamless correlation.

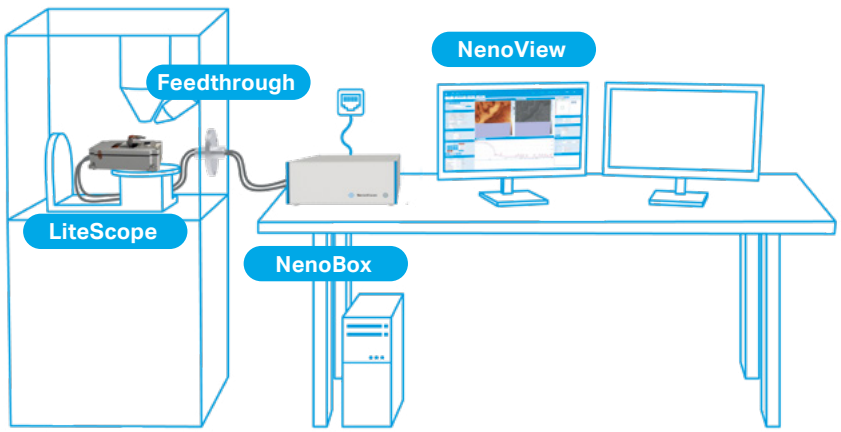


Measurement modes

- **Mechanical:** AFM Topography, Energy dissipation, Phase imaging, Nanoindentation
- **Electrical:** C-AFM, KPFM, EFM, STM
- **Magnetic:** MFM
- **Electro-mechanical:** PFM
- **Spectroscopy:** F-z curves, I-V curves
- **Correlative:** CPEM+

LiteScope setup and SEM compatibility

Thanks to its optimized design, AFM LiteScope is compatible with most SEM systems produced by Thermo Fisher Scientific, TESCAN, ZEISS, Hitachi, Jeol and their accessories.



What do you get?

LiteScope package

- LiteScope – scan head
- NenoBox – control unit
- NenoView – control software
- Feedthroughs
- SEM adaptor
- Cabling
- Installation & Training
- Probes

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Contact us!
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