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# Thermo Fisher brings cost-effective scanning electron microscope

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**Takes materials micro-structural analysis and defect discovery to a new level of speed and simplicity.**



Thermo Fisher Scientific has unveiled the Thermo Scientific Axia ChemiSEM, a cost-effective, floor-model scanning electron microscope (SEM) that takes materials micro-structural analysis and defect discovery to a new level of speed and simplicity.

Axia ChemiSEM includes always-on energy dispersive spectroscopy (EDS) analysis with Thermo Fisher's breakthrough ChemiSEM technology, providing academic and industrial users with near instant access to quantitative compositional imaging. The result of this instant access: Axia ChemiSEM provides actionable data up to twice as fast as other competing SEM-EDS solutions currently on the market. Next-generation auto-alignment and auto-focus technology greatly lower the need for training, while the instrument's unique chamber and stage design makes it easy to investigate samples of all shapes and sizes, including heavy samples up to ten kilograms.

Unlike traditional SEMs, Axia ChemiSEM offers:

- Fully integrated ChemiSEM Technology, offering instant quantitative elemental information with the click of a button and without needing additional set-up or switching between user interfaces;
- A large, flexible chamber that can accommodate samples traditionally considered too heavy for investigations involving electron microscopy; and
- A new, advanced column automation that is always ready to image, enabling users to focus on data collection rather than instrument management.