BioSpectrum
the business of Bi
24 years of leveraging the business of Bio
www.biospectrumindia.co

Bruker introduces X4 POSEIDON advanced X-ray microscope for scientific applications

28 February 2025 | News

For performance across life-science applications, from bone and dental research, to soft tissue imaging, plant and animal biology



American manufacturer of scientific instruments Bruker Corporation has announced the launch of the new X4 POSEIDON, a high-performance 3D X-ray microscope (XRM) using micro-Computed Tomography (microCT).

This innovative benchtop XRM system offers advanced capabilities comparable to larger, floor-standing systems to make high-resolution 3D X-ray microscopy accessible for demanding XRM applications in industrial applications and scientific research.

The X4 POSEIDON features a high-end X-ray source that improves 3D resolution more than an order of magnitude compared to similar instruments. The system offers a large field-of-view high-efficiency detector, which optionally can be combined with a high-resolution scientific CMOS detector for multi-vision analytical flexibility.

The X4 POSEIDON is powered by 3DxSUITE software, with automated protocols, an intuitive and customizable user interface, integrated database and user management, and multi-language support. Designed for low maintenance, the system enhances uptime and reduces cost of ownership. Options are field-upgradable, allowing for cost-effective expansion to meet evolving analytical needs and future innovations.