

Bruker Nano Surfaces

For more than 55 years, Bruker has enabled scientists to make breakthrough discoveries and develop new applications that improve the quality of human life. In close cooperation with our customers, Bruker is enabling innovation, productivity and customer success in life science molecular research, in applied and pharma applications, in microscopy, nanoanalysis and industrial applications, as well as in cell biology, preclinical imaging, clinical phenomics and proteomics research, clinical microbiology and molecular pathology research. Bruker's Nano Surfaces Division provides an extensive suite of application-focused instrumentation for research and production that addresses the full range of metrology techniques, sample sizes, and imaging resolutions.

- **Atomic Force Microscopes**—We have led the expansion of atomic force microscopy capabilities since the beginning, and our AFMs are the most cited in the world. And, as the only AFM manufacturer with a state-of-the-art probes nanofabrication facility, Bruker is uniquely positioned to provide the equipment and support for all your nanoscale research needs.
- **3D Optical Microscopes**—Offering fast, non-contact analyses for samples ranging in size from microscopic MEMS to entire engine blocks, our specialized instruments enable advanced QA/QC and R&D precision machining and manufacturing applications within the automotive/aerospace, high-brightness LED, solar, semiconductor, and medical device markets.
- **Nanomechanical Test Instruments**—Bruker offers the most comprehensive suite of quantitative nanomechanical and nanotribological test instruments in the market. Our industry-leading Hysitron technologies are specifically designed to enable new frontiers in nanoscale materials characterization, materials development, and process monitoring.
- **Nanoscale Infrared Spectrometers**—Our world-leading Anasys photothermal IR spectrometers provide quantifiable data from the nanoscale to the sub-micron and macro scales, measuring spatially varying physical and chemical properties with nanoscale spatial resolution in a diverse range of fields, including polymers, 2D materials, materials science, life science and micro-electronics industry.
- **Multiphoton Microscopes**—Bruker's multiphoton imaging technology is a direct result of decades of close collaboration and laboratory experience with leading neuroscientists around the world. This has led to a host of proprietary capabilities and features, such as modular setup, incorporated photostimulation light path, and feature-rich software.
- **Confocal Microscopes**—Our swept-field confocal microscopes utilize proprietary one-dimensional pinhole array technology to combine the resolution of traditional confocal systems with the speed typically associated with wide-field imaging. With their short acquisition times and cell-protecting minimization of photobleaching and phototoxicity, they are an ideal platform for advanced live-cell imaging.
- **Super-Resolution Microscopes**—Based on single molecule localization techniques (PALM, STORM, etc.), Bruker's super-resolution microscopes enable quantitative imaging at the nanoscale. Proprietary Biplane technology provides 3D imaging during all acquisitions, and their flat homogenous field of view using wide-field illumination allows accurate imaging at depths of over 30µm.
- **Light-Sheet Microscopes**—Luxendo systems provide 3-D imaging that is high speed, high signal to noise, has close to confocal resolution and provides for long term imaging with extremely low levels of photobleaching and phototoxicity.



How to find us

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