

Hitachi High Technologies America, Inc.

The Nanotechnology Systems Division (NSD) of Hitachi High Technologies America, Inc. (HTA) provides technologically advanced solutions to meet the diverse and complex challenges of materials science, biological research, and industrial manufacturing. We support our satisfied customers with a wide range of reliability-proven instrumentation, including scanning electron microscopy (SEM), analytical and biological transmission electron microscopy (TEM), dedicated STEM, focused ion beam (FIB), tabletop SEM, and microanalysis sample preparation systems.

VP-SEM

- Proprietary Hex bias for unmatched low kV and low vacuum performance. Real-time 3D imaging also available (SU3500).

FE-SEM

- The Ultimate SEM (SU8200 series) with next generation cold-field emission (increased current and stability), enhanced deceleration, and selective energy filtering.
- True In-lens system for unmatched resolution performance (SU9000).
- Advanced Schottky electron gun technology combined with our exclusive ADAPT, automated differential aperture system, for increased current. Accommodating EDX, WDX, EBSD, STEM, BSE, and CL.

TEM/STEM

- High-contrast/high-resolution 120 kV TEM and 300 kV TEM, Cs-Corrected STEM, and FE-TEM.

FIB-SEM

- Superior 40 kV Ga ion FIB column with an ultra-high-resolution Schottky FE-SEM.

Microanalysis Sample Preparation

- Ion-milling and sample cleaning technology for SEM and TEM samples.

Tabletop SEM

- Variable accelerating voltage, higher beam current, large stage/chamber, and smaller footprint for unmatched performance and image quality.

Hitachi designs, develops, manufactures, and services a wide variety of electron microscopes, semiconductor manufacturing equipment, and analytical instrumentation. Hitachi products are used in laboratories and production facilities around the world for materials and biological research, *in situ* analysis, and industrial manufacturing.

The Clarksburg, Maryland headquarters for the Nanotechnology Systems Division of HTA includes sales, marketing, service, and application. HTA also offers extensive field sales, service, and support capabilities throughout North and South America.

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How to find us

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