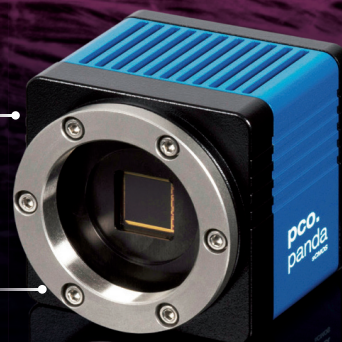


from the pioneers in SCMOS

pco.

up to **95%**
quantum efficiency

6.5 μm pixel size
for a perfect fit
in microscopy &
life science optics



65 mm

ultra
compact
design

bi back illuminated

pcotech.com

SNE-4500M PLUS TABLETOP-SEM

NEW



SNE-4500M Plus model provides the best performance with easy-of-use. Fast moving by fully motorized stage and easy to find analyzing location of sample with Top-view camera. Maximum 150,000x magnification, and optimized to surface / cross section analysis with the wide stage composition.

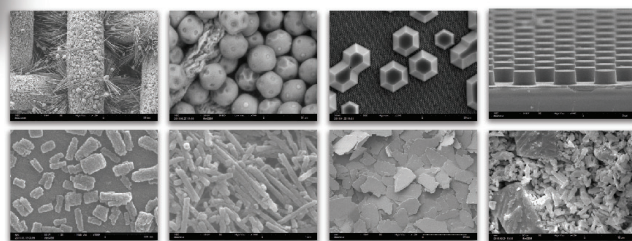
THE ULTIMATE SOLUTION

NANOIMAGES x sec
Perfect Focus e-beam pioneer

A Type SE Detector & High Vacuum System

B Type A + BSE Detector & Low Vacuum System

	A Type	B Type
Magnification	150,000x	150,000x
Resolution	5nm	5nm
Detector	SE	SE / BSE
Vacuum	High	High / Low
Stage	X, Y, Z, T, R : Fully Motorized	



CONGRATULATIONS TO THE 2018

DIATOME POSTER AWARD WINNERS

DIATOME is proud to announce the following Innovation Award winners for the 2018 Microscopy & Microanalysis annual meeting.

École Polytechnique Fédérale de Lausanne: single-shot three-dimensional electron imaging

Deutsches Elektronen-Synchrotron (DESY): high-NA, high-efficiency hard X-ray lenses

HREM Research, Inc.: a method of phase retrieval from the differential phase contrast signal

Integrated Dynamic Electron Solutions, Inc.: Relativity® multiplexed TEM video imaging

US Naval Research Lab and Vanderbilt University: engineered materials for hyper-lensing

Neurescence, Inc.: the Quartet® miniature microscope that can follow activity in four neurons simultaneously

National Institute of Biomedical Imaging and Bioengineering: reflective imaging that improves spatiotemporal resolution and collection efficiency in light sheet microscopy

University of California Davis Health: MUSE microscopy enabling slide-free histology

University of Illinois at Urbana-Champaign: gradient light interference microscopy (GLIM)

Voxa Company: Mochii S, a portable SEM-EDS small enough to be carry-on luggage

A heartfelt Congratulations is extended from DIATOME and EMS to the Winners.

Sincerely yours,
Stacie Kirsch, Managing Director



Alluxa

5 REASONS ALLUXA SHOULD BE YOUR OPTICAL COATING PARTNER

1 HIGHEST PERFORMANCE THIN FILM COATING PROCESS

2 ULTRA SERIES BANDPASS, DICHROICS, AND MULTIBANDS

3 HIGH PERFORMANCE FLAT-TOP ULTRA NARROWBAND FILTERS

4 FASTEST CUSTOM COATING TURNAROUND

5 NARROWBAND AND LIFE SCIENCES FILTER CATALOG

www.alluxa.com

INDEX TO ADVERTISERS

Alluxa	A12b
Bruker Nano	A10
Diatome	Cover 2
EDAX, Inc.	A4
Electron Microscopy Sciences, EMS	Cover 3, A12a
Hitachi	Cover 4
PCO	A11a
SEC, Adexpo Korea Co. Ltd.	A11b
Tescan	A5
Thermo Fisher Scientific	A6
ZEISS	A9

ETHOS

Focused Ion and Electron Beam System

HITACHI
Inspire the Next

...Aspire to Excellence

The *All-New* Hitachi ETHOS SEM-FIB combines ultra-high resolution imaging and elemental analysis at low voltages with ion optics for nm-scale precision processing.



Designed with a variety of applications in mind

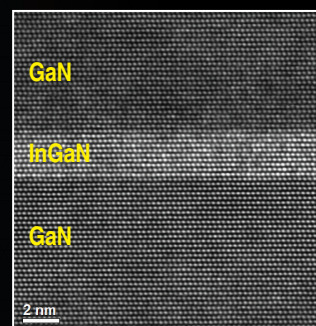
- Large analytical specimen chamber for numerous accessories
- Automated operation including macro processing
- Time sharing mode for dual simultaneous live imaging and processing
- Real-time analytical 3D segmentation capability

Advanced Microsampling

- Sample orientation control with Anti Curtaining Effect (ACE) technologies
- 4-axis lift-out function for advanced TEM specimen preparation

Triple-beam system yielding highest-quality results

- Low acceleration voltage processing with noble gas ion beam
- Selectable ion species (argon/xenon)



200 kv ADF STEM Image of processed lamella by Triple Beam Ar Ion at 1kV

For more information, visit www.hitachi-hightech.com/us/fib



Science for a better tomorrow

Hitachi High Technologies America, Inc.

www.hitachi-hightech.com/us

Tel. 800-253-3053

© 2018 Hitachi High Technologies America, Inc. All rights reserved.



Our new academy is now open!

Located minutes from Philadelphia, next to our extensive warehouse in Hatfield, PA, we have many offerings led by our certified faculty:

- Ten Educational Workshops
- Corporate Training
- Group Training
- Private Training
- Equipment Demonstrations

Watch for our 2019 schedule coming soon!

Plan to sign up and bring your career to the next level!

**SIGN UP FOR A CLASS TODAY,
OR SUGGEST A COURSE THAT
YOU WANT...**

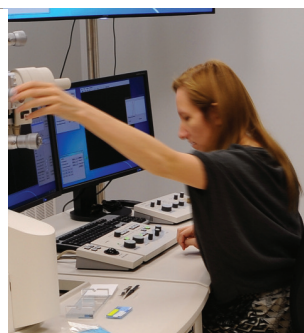


...ENDLESS POSSIBILITIES

NEW WORKSHOPS FOR 2019

Aurion ImmunoGold Silver Staining
Automated Rapid Processing
Biological SEM
Biological TEM
Cryosectioning/Immunogold
Introduction to Microscopy Techniques
Cryo SEM
Materials Ultramicrotomy
X-Ray Microanalysis

www.emsmicroscopyacademy.com



Electron Microscopy Sciences • 1560 Industry Road, Hatfield, PA 19440 • phone: 215-412-8400 • email: info@emsdiasum.com