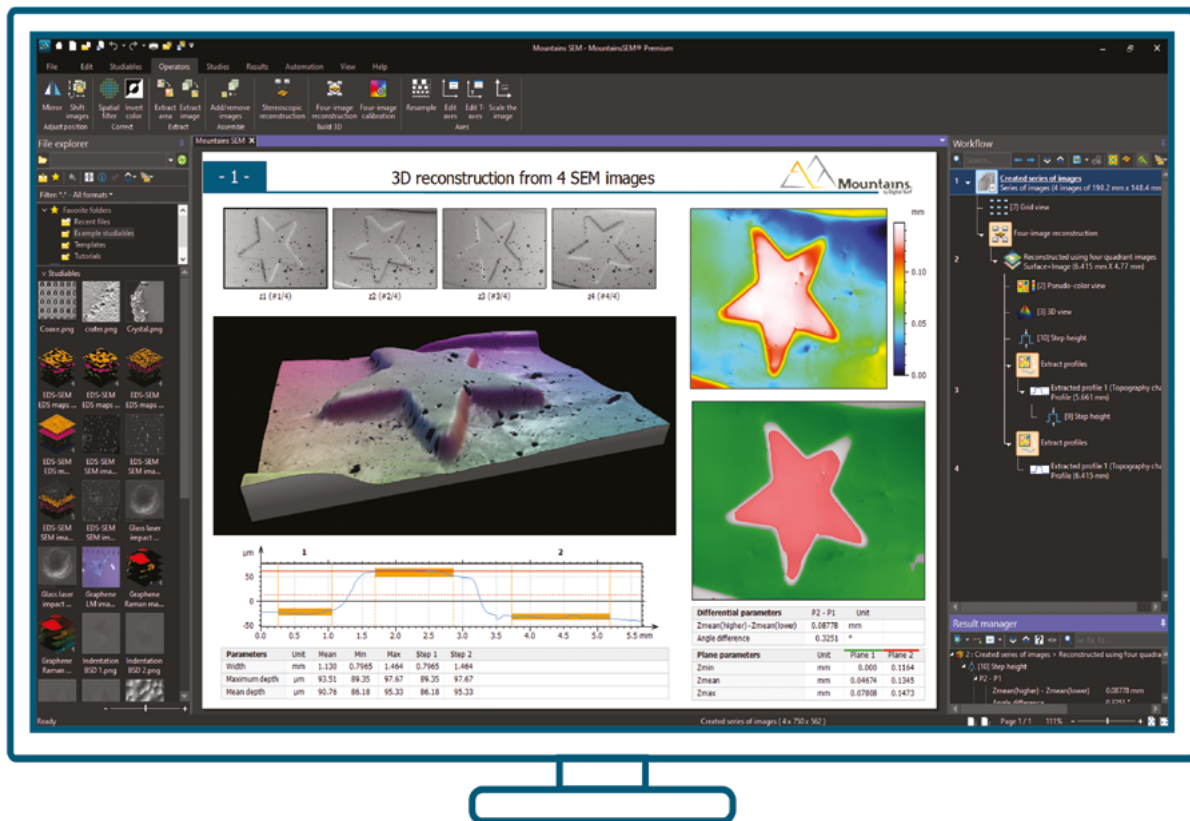




# SEM image analysis software you can rely on

Trusted by the world's greatest SEM manufacturers,  
MountainsSEM<sup>®</sup> software is a comprehensive, dedicated  
solution for your scanning electron microscope image analysis

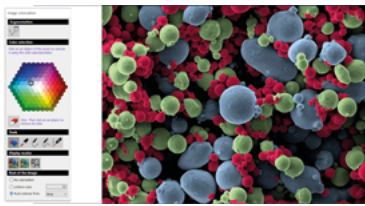
Compatible with any scanning electron microscope



Try MountainsSEM<sup>®</sup> software free for 30 days

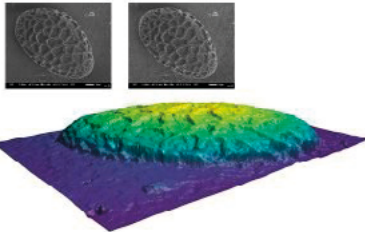
[www.digitalsurf.com/free-trial/?id=1860](http://www.digitalsurf.com/free-trial/?id=1860)

# What's inside MountainsSEM®



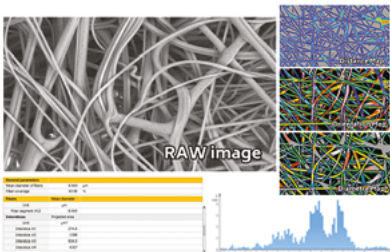
## SEM image colorization & enhancement

- Add color to your SEM images quickly & easily
- Apply image correction and enhancement tools



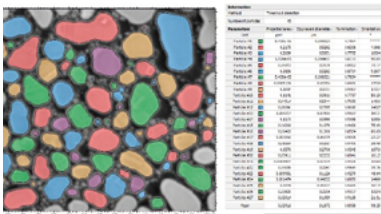
## 3D reconstruction from two or four SEM images

- Quickly reconstruct 3D surface topography
- from two successive tilted scans of your sample, obtain accurate height values and evaluate surface roughness
- from four images obtained using a four-quadrant detector



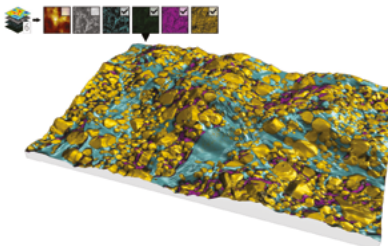
## Fiber analysis

- Quantify individual fibers, even if they overlap
- Calculate diameter & orientation of fibers
- Use SEM-dedicated fiber detection algorithms



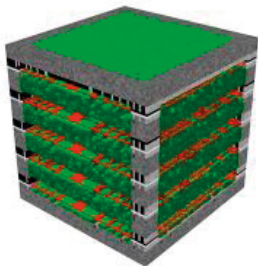
## 2D particle analysis

- Apply powerful particle analysis tools to your SEM data and automatically identify and quantify features in your image using SEM-specific object recognition



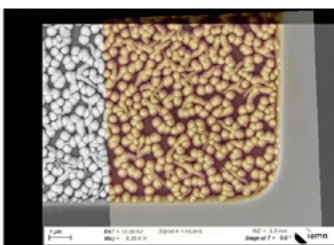
## Create 3D chemical maps with EDS/EDX data

- Build spectacular 3D renderings associating EDS maps or other spectral/compositional data with topography reconstructed from SEM images



## Volume electron microscopy analysis

- Load, display and analyze volume electron microscopy image series (FIB-SEM, serial block-face SEM, array tomography etc.) as cubes
- Associate 3D imaging and chemical analysis



## Correlative analysis

- Combine SEM images from different detectors or with data from other measurement instruments such as AFM
- Colocalize your SEM images with spectral analysis data

# Mountains® software core benefits

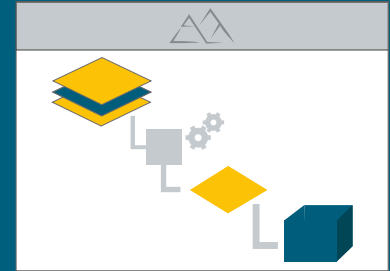
## Surface imaging & metrology expertise

With 30+ years' experience developing analysis software for the global industrial and scientific community, Digital Surf specializes in surface texture analysis according to ISO standards (as used for profilometers) and microscopy/spectroscopy data analysis



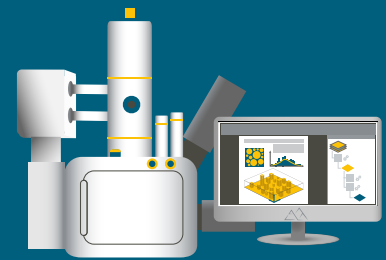
## Total traceability

MountainsSEM® unique interactive analysis workflow lets users see and modify all the analysis steps already applied to data and revert back to any step in the process at any time



## Works with all techniques, trusted by the manufacturers

Join over 22,000+ Mountains® users worldwide & use analysis software trusted by the leading manufacturers and national research laboratories



## Scientific software with a document layout

Organize the different steps of your image analysis on one or several pages and publish in PDF or Word to share with colleagues, students, clients etc.



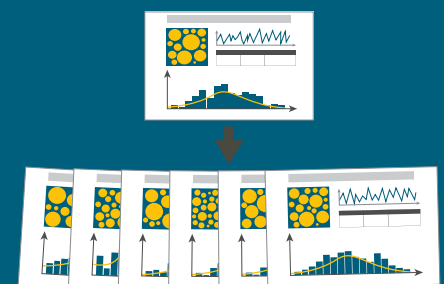
## Work & get help in your own language

Work in one of the 11 languages available in the Mountains® user interface & get help on your applications from our international support team



## Powerful automation

Automate your repetitive work and speed up your analysis process with no-code tools  
Save analysis sequences and reapply automatically to large batches of data  
Accelerate analysis with built-in statistics tools



# Select your MountainsSEM<sup>®</sup> product

 MountainsSEM <sup>®</sup>	Premium	Expert	Color
Quick SEM image colorization	✓	✓	✓
Basic analysis and measurement tools	✓	✓	✓
Image correction & enhancement tools	✓	✓	✓
Ultra-fast 3D reconstruction from two or four SEM images	✓	✓	X
Instant 3D enhancement of single SEM images	✓	✓	X
EDS/EDX map overlays on surface topography	✓	✓	X
<b>Optional modules</b>			
Correlative microscopy	✓	✓	X
2D particle analysis & characterization	✓	Option	Option
Fiber analysis	✓	Option	Option
Volume electron microscopy cube visualization & analysis	✓	Option	X
Contour analysis	✓	Option	Option
Support for Shells (freeform surfaces)	✓	Option	X
Critical dimensions & Trenches	Option	Option	Option
Advanced profile analysis	Option	Option	X
Advanced topography analysis	Option	Option	X
Fourier & wavelets analysis	Option	Option	X
Spectroscopy	Option	Option	X
Thickness analysis	Option	Option	X
4D surface change	Option	Option	X

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Distribution in the UK & Ireland

✓ : Included    Option : Available as an option    X : Not compatible



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Analysis**

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