

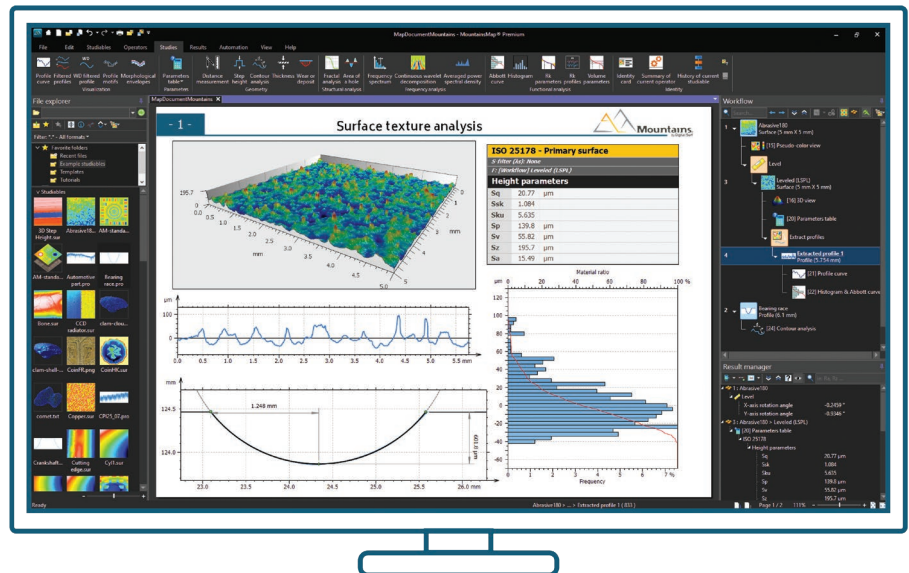


Surface analysis software trusted by the professionals

Used by thousands of engineers, scientists and metrologists worldwide, MountainsMap® software is the gold standard in 2D and 3D surface texture analysis and metrology for use with profilometers and other surface measuring instruments.

Compatible with all profile and areal measuring instruments including:

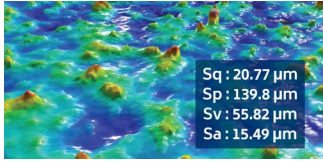
- Areal (3D) optical profilers producing topography maps & intensity/color images
- Confocal microscopes
- Focus variation microscopes
- White light interferometers
- Areal (3D) contact profilometers producing topography maps
- Scanning single point optical profilometers
- 2D contact or optical profilometers
- 3D scanners



Try MountainsMap® software free for 30 days

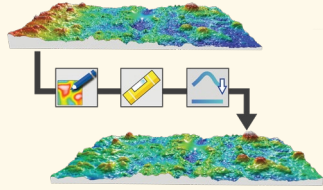
www.digitalsurf.com/free-trial/

What's inside MountainsMap®



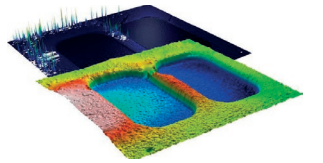
Calculation of standardized parameters

Calculate roughness and texture parameters on profiles and surfaces using ISO, ASME and VDA standards including Ra, Rq, Sa, Sq and much more.



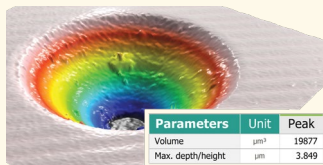
Filtering & form removal

- Apply S- and L- filters as defined by ISO 16610.
- Remove form using polynomial or geometric fits and level surface data prior to analysis.



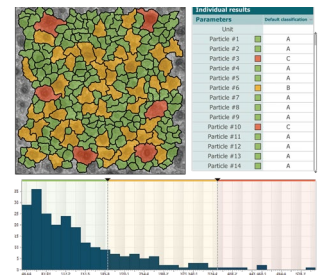
Optical measurement preparation & correction

Clean and correct optical measurements by removing outliers, filling missing data, thresholding low intensity points and reducing noise before analysis.



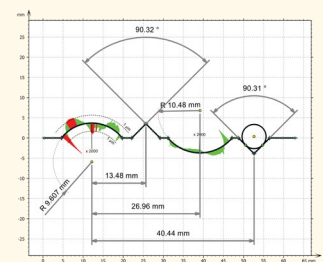
Functional surface characterization

Analyze void/material volume, bearing ratio, lubrication volume and material displacement for performance-oriented surface evaluation.



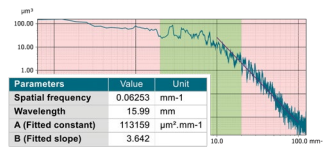
Particle analysis & deterministic surfaces

- Automatically detect, classify and analyze particles, grains, pores, MEMS features etc. using multiple detection methods.
- Carry out feature classification and statistical analysis.
- Use ISO-compliant feature parameters.
- Access tools for automated partitioning, structure detection and geometric control of surfaces.



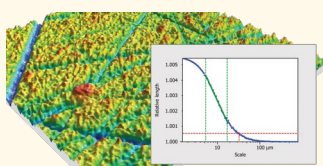
Geometric dimensioning & tolerancing - GD&T

- Perform ISO 1101-compliant geometric dimensioning & tolerancing (contour analysis) on profiles or surface contours.
- Compare measured data with CAD data (DXF) or user-defined nominal form.
- Advanced contour analysis of features like gothic arches and V-grooves.



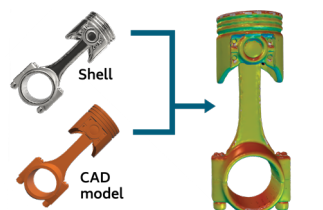
Spectral analysis

Identify periodic features and dominant frequencies using Power Spectral Density (PSD) and autocorrelation tools.



Multi-scale surface analysis

Use wavelet and bandpass filters or scale-sensitive fractal analysis (SSFA) tools to study surface behavior across multiple spatial scales.



Freeform surface (shell) analysis

- Analyze freeform surface (shells) represented as triangular meshes and point cloud data.
- Clean-up and remesh.
- Compare to geometric or CAD models.

Mountains® software core benefits

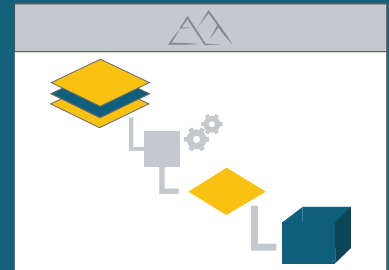
Surface imaging & metrology expertise

With several decades' 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)



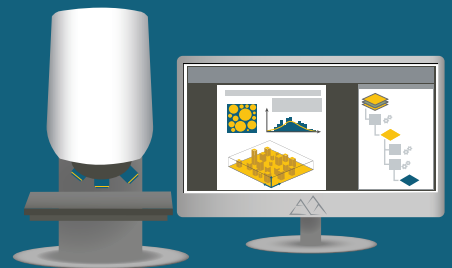
Total traceability

MountainsMap® 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 profilometers, trusted by the manufacturers

Join tens of thousands Mountains® users worldwide and use surface analysis software trusted by the leading manufacturers and national research laboratories



Scientific software with a document layout

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



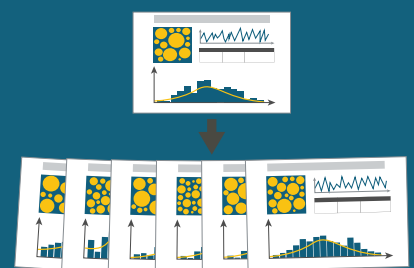
Work & get help in your own language

Work in one of the 11 languages available in the Mountains® user interface and 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 MountainsMap® product

 MountainsMap®	Premium	Expert	Imaging Topography	Topography	Profile
Profile roughness and waviness analysis	✓	✓	✓	✓	✓
Basic analysis of surface data	✓	✓	✓	✓	X
Stitching of images and surfaces, outlier removal & multi-focus reconstruction	✓	✓	✓	X	X
Support for file formats from optical profilers	✓	✓	✓	X	X
Optional modules					
Advanced profile analysis	✓	✓	Option	Option	Option
Automotive profile parameters	✓	✓	Option	Option	Option
Advanced topography analysis	✓	✓	Option	Option	X
Particle analysis	✓	Option	Option	Option	X
Fiber analysis of images & topography	Option	Option	Option	X	X
Contour analysis	✓	Option	Option	Option	Option
Advanced contour analysis (including CAD compare)	Option	Option	Option	Option	Option
Thickness analysis	✓	Option	Option	Option	X
4D surface change	✓	Option	Option	X	X
Critical dimensions & Trenches	Option	Option	Option	X	X
Lens analysis	Option	Option	Option	Option	X
Fourier & wavelets analysis	✓	Option	Option	Option	X
Shell extension (freeform surfaces)	✓	Option	Option	Option	X
Shell topography for metrological analysis	Option	Option	Option	Option	X
Shell CAD compare	Option	Option	Option	Option	X
Lead analysis (Twist)	Option	Option	Option	Option	X
Scale-sensitive fractal analysis	Option	Option	Option	Option	X
Colocalization for correlative analysis	Option	Option	Option	X	X

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