



SensoMAP v8 software specification





SensoMAP



Designed for use with the broadest range of research and industrial applications, SensoMAP software is the perfect surface imaging, analysis and metrology solution that is fully integrated with Sensofar 3D optical profilers. It includes:

- □ Imaging visualization of surface data using cutting-edge imaging technology and intelligent filters.
- Metrology analytical studies in accordance with the very latest standards and methods.
- Report Creation creation of detailed, accurate multi-page surface analysis reports in a smart desktop publishing environment with powerful automation features to speed up analysis.

SensoMAP is a powerful 3D analysis, documentation and reporting tool. It contains a complete and comprehensive set of tools, surface transformations and measurements focused on obtaining 3D data for your sample. These include:

- Position adjustment (level, mirror, rotate...)
- Surface correction (spatial filtering, fill non-measured points...)
- Filtering (form, roughness, outliers...)
- Surface extraction (profile, contour, area, layers...)
- Surface comparison and stitching
- 2D and 3D advanced visualization modes
- Geometrical analysis (distance, step height, contour...)
- Structural Analysis (fractal, volume...)
- Roughness Analysis (2D and 3D roughness parameters)
- Frequency Analysis (Fourier, wavelet decomposition...)
- Functional analysis (Abbot curve, Rk parameters, histograms...)



SensoMAP is an scalable software available on two product levels:

**SensoMAP Standard** provides the features required for standard surface imaging and analysis. It comes with numerous optional modules that can be added at any time for advanced and specialized applications.

**SensoMAP Premium** is a much more powerful solution in terms of features and includes all the modules except: *Advance contour, Shell extension, Lead (Twist) analysis* and *Scale-sensitive fractal analysis*. Other highly-specialized modules that can be added if required.

**SensoMAP Software Network License** allows to use the software on several computers on a network. The number of computers that can use the software simultaneously depends on the number of "seats" purchased with the network license.



## General Features

GENERAL FEATURES	Standard	Premium
(KERNEL) Desktop publishing & Template document	✓	<b>~</b>
Template document on all data of a folder	✓	<b>~</b>
Can load studiables	✓	<ul> <li>✓</li> </ul>
Can save studiables	✓	V
Can export a document	✓	<ul> <li>✓</li> </ul>
Can export as image	V	V
Can export results in a CSV file	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Enable Multi Documents Interface (MDI)	V	<b>V</b>
Can lock a document	<ul> <li></li> </ul>	<ul> <li>✓</li> </ul>
Videos, Tutorials, Quick Reference Guide	<b>~</b>	✓
Welcome dialog	✓	<ul> <li>✓</li> </ul>
Tolerances Limits (pass/fail)	✓	✓
Table of Results	<ul> <li>✓</li> </ul>	✓
Minidocs	✓	<ul> <li></li> </ul>
Masterpages	✓	<ul> <li>✓</li> </ul>
Document pages Viewer	✓	<ul> <li></li> </ul>
File Explorer & Favorite Folders	✓	<b>v</b>
Floating Panels	<b>v</b>	<ul> <li></li> </ul>
Result Manager	~	<ul> <li>✓</li> </ul>
Can Use Results As Settings	<b>V</b>	$\checkmark$
Can Use Quick Pre-processing	✓	<ul> <li>✓</li> </ul>
Can Use Quick Extractions	~	$\checkmark$
Palette Manager	✓	<b>v</b>
Languages : EN, FR, DE, SP, IT, BR, PL, JP, CN, KR, RU	~	<i>•</i>
Third party Plug-ins	<b>~</b>	<b>V</b>
Global management of non-measured points	<b>V</b>	<ul> <li></li> </ul>
Management of absolute data	<ul> <li>Image: A start of the start of</li></ul>	<ul> <li>Image: A start of the start of</li></ul>
Min and Max values of axes	<b>v</b>	<b>v</b>
Web Update detection enabled	<b>v</b>	V
Acquisition interface for workshop profilers		
Digital Surf file formats Basic set of file formats		
Image formats File formats of 2D Profilers	V	
File formats of 3D Profilers		
File formats of Optical Microscopes (WLI, PSI, SCM)		
File formats of Form Measurement instruments		
Profilometry product		
Topography product		<ul> <li>✓</li> </ul>
Statistics enabled		
Profiles enabled	<b>1</b>	<ul> <li>✓</li> </ul>
Series of profiles enabled		
Parametric profile enabled		<ul> <li>✓</li> </ul>
Surfaces enabled	<u></u>	
Series of surfaces enabled		<ul> <li>✓</li> </ul>
Surfaces+Images enabled		
Multilayer surfaces enabled		
RGB Images enabled	×	· · · ·
Series of RGB Images enabled	×	· · · ·
series of heb intrages enabled		



STUDIES OF THE STATISTICS MODULE	Standard	Premium
Table of statistical parameters		<ul> <li>✓</li> </ul>
Trend plot		<ul> <li>✓</li> </ul>
Scatter plot		<ul> <li></li> </ul>
Histogram		<ul> <li>Image: A start of the start of</li></ul>
Box plot		<ul> <li></li> </ul>

General	
Feature	S

GENERIC SERIES STUDIES	Standard	Premium
Trend plot		<ul> <li>✓</li> </ul>
Scatter plot		<b>v</b>
Histogram		✓

STUDIES ON PROFILES	Standard	Premium
Profile Curve	✓	<ul> <li>✓</li> </ul>
Filtered Profiles (Roughness and Waviness)	V	V
Abbott-Firestone Curve	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Fractal Analysis		<ul> <li>✓</li> </ul>
Graphical study of Rk parameters		✓
Rk Profiles		✓
R & W Motifs (ISO 12085)		✓
Distance Measurement	✓	<ul> <li>✓</li> </ul>
Area of a hole / Peak	<ul> <li>✓</li> </ul>	✓
Morphological Envelopes		✓
Step Height	<ul> <li>✓</li> </ul>	✓
<ul> <li>Step Height option with automatic and ISO5436 mode</li> </ul>	<b>v</b>	~
Frequency Spectrum		<ul> <li>✓</li> </ul>
Averaged Power Spectrum Density		✓
Contour Analysis		✓
Continuous Wavelet Decomposition		✓
Parameters Table	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
• 2D (P+R) Parameters, Group A: Base parameters	✓	<ul> <li>✓</li> </ul>
• 2D (P+R) Parameters, Group B: old parameters		✓
• Waviness parameters of groups A and/or B	v	<ul> <li>✓</li> </ul>
• 2D Parameters, Group C: Automotive		✓
• 2D Parameters, Group D: Form Deviation		<ul> <li>✓</li> </ul>
Plastic Parameters AF, PG, CH		<ul> <li>✓</li> </ul>
WD filtered profile		<ul> <li>✓</li> </ul>

Profiles



# Profiles

OPERATORS ON PROFILES	Standard	Premium
Level	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>✓</li> </ul>
Extract Area (Zoom)	V	✓
<ul> <li>option autozoom on flat portion</li> </ul>		✓
Mirror (Symmetries)	✓	✓
Standard Filter		✓
Morphological Filter		<ul> <li>✓</li> </ul>
Filter the Fourier Spectrum		✓
Remove Form		✓
Retouch Profile Points		✓
Fill in Non-measured Points	✓	✓
Threshold		✓
Resample		✓
Autocorrelate		✓
Intercorrelate two profiles		✓
Discrete Wavelet Filtering		<ul> <li>✓</li> </ul>
Build Series of Profiles		✓
Join two Profiles		✓
Subtract profiles		✓
Patch Profiles		✓
Convert Profile into a Parametric Profile		✓
Edit Axes	<b>~</b>	✓
Use Matlab		
Remove Microroughness	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Helix Angle Correction		<ul> <li>✓</li> </ul>
Sliding Profiles		<ul> <li>✓</li> </ul>



STUDIES ON SERIES OF PROFILES	Standard	Premium	
Profile Curve		✓	
Abbott-Firestone Curve		<ul> <li>Image: A second s</li></ul>	Series of
Step Height		✓	Profiles
<ul> <li>Step Height option with automatic and ISO5436 mode</li> </ul>		<b>v</b>	FIOHES
Parameters Table		✓	
• 2D (P+R) Parameters, Group A: Base parameters		<ul> <li>Image: A second s</li></ul>	
• 2D (P+R) Parameters, Group B: old parameters		✓	
• Waviness parameters of groups A and/or B		<b>~</b>	
• 2D Parameters, Group C: Automotive		<b>v</b>	
• 2D Parameters, Group D: Form Deviation		<ul> <li>Image: A second s</li></ul>	
Plastic Parameters AF, PG, CH		<ul> <li>✓</li> </ul>	
OPERATORS ON SERIES OF PROFILES	Standard	Premium	
Level		✓	
Extract Area (Zoom)		V	
<ul> <li>option autozoom on flat portion</li> </ul>		<b>v</b>	
Mirror (Symmetries)		✓	
Fill in Non-measured Points		<b>v</b>	
Resample		V	
Build Series of Profiles		<ul> <li>Image: A start of the start of</li></ul>	
Edit Axes		<b>~</b>	
Use Matlab		✓	
Remove Microroughness		V	
Convert Series of Profiles into Surface		<b>v</b>	
Profile extraction		V	
Resample T-Axis		<b>v</b>	
Edit T-Axes		<b>v</b>	
Automatic lateral alignment of profiles		<b>~</b>	
Concatenation			

STUDIES ON PARAMETRIC PROFILES Contour Analysis	Standard	Premium
OPERATORS ON PARAMETRIC PROFILES	Standard	Premium
Mirror (Symmetries)		<ul> <li>✓</li> </ul>
Patch Profiles		<ul> <li>✓</li> </ul>
Helix Angle Correction		<ul> <li>✓</li> </ul>
Rotate		<ul> <li>✓</li> </ul>
Extract Area (Zoom)		<ul> <li>✓</li> </ul>

### Parametric Profiles



# Surfaces

STUDIES ON SURFACES	Standard	Premium
Pseudo-colour View	<ul> <li>Image: A start of the start of</li></ul>	✓
Photo Simulation	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>Image: A start of the start of</li></ul>
Contour Lines	✓	<ul> <li>✓</li> </ul>
3D View	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>✓</li> </ul>
<ul> <li>3D Surface Flight + AVI exportation</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Abbott-Firestone Curve	<b>~</b>	✓
Slices	<b>~</b>	✓
Fractal Analysis		<ul> <li>Image: A set of the set of the</li></ul>
Peak Count Distribution		✓
Volume of a Hole / Peak	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>✓</li> </ul>
Graphical study of Sk parameters		<ul> <li>✓</li> </ul>
Graphical study of Volume parameters		✓
Distance Measurement (& horizontal angle & position)	<ul> <li>Image: A start of the start of</li></ul>	<ul> <li>✓</li> </ul>
Step Height	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>Image: A start of the start of</li></ul>
Parameters Table	✓	✓
3D parameters, group A (Height & Bearing ratio)	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>✓</li> </ul>
<ul> <li>3D parameters, group B (Spatial &amp; Hybrid)</li> </ul>		<ul> <li>✓</li> </ul>
<ul> <li>3D parameters, group C (Functional)</li> </ul>		✓
<ul> <li>3D parameters, group D (Features)</li> </ul>		<ul> <li>✓</li> </ul>
<ul> <li>3D parameters, group E (Form)</li> </ul>		<ul> <li>Image: A start of the start of</li></ul>
Frequency Spectrum		<ul> <li>✓</li> </ul>
Averaged Power Spectrum Density		✓
Valley Depth Measurement		<ul> <li>✓</li> </ul>
Furrows		<ul> <li>Image: A start of the start of</li></ul>
Texture Direction		✓
Texture Isotropy		<ul> <li>✓</li> </ul>
Particle analysis		



OPERATORS ON SURFACES	Standard	Premium	1
Level	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	C
<ul> <li>option Include/Exclude zones</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	2
Level Line by Line		<ul> <li>✓</li> </ul>	
<ul> <li>option Include/Exclude zones in line correction</li> </ul>		<ul> <li>✓</li> </ul>	
Partition and level	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
Extract Area (Zoom)	<ul> <li>✓</li> </ul>	v 🗸	
Mirror (Symmetries)	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
Rotate	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
Standard Filter (Gaussian & Spline)	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
Morphological Filter		<ul> <li>✓</li> </ul>	
Spatial Filter	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
• Option edge filters + custom filters		<ul> <li>✓</li> </ul>	
Threshold	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
Resample	<ul> <li>✓</li> </ul>	v	
Retouch Surface Points	✓	<ul> <li>✓</li> </ul>	
Fill in Non-measured Points	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
Remove Form	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
option Include/Exclude zones	V	<ul> <li>✓</li> </ul>	
Extract Profile	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
<ul> <li>option Circular &amp; User-defined path</li> </ul>		<ul> <li>Image: A set of the set of the</li></ul>	
Subtract two Surfaces	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
Divide two Surfaces		<ul> <li>Image: A start of the start of</li></ul>	
Patch Surfaces		✓	
Stitch		<ul> <li>✓</li> </ul>	
Filter the Spectrum		<ul> <li>✓</li> </ul>	
Threshold the Spectrum		<ul> <li>✓</li> </ul>	
FFT Spectrum		~	
Autocorrelate		<i>·</i>	
Intercorrelate two surfaces		<ul> <li>✓</li> </ul>	
Wavelet Transform		<ul> <li>Image: A start of the start of</li></ul>	
Edit Axes	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
Tip Deconvolution		<ul> <li>✓</li> </ul>	
Correct Lines by Interpolation		<ul> <li>✓</li> </ul>	
Build of a Series of Surfaces		<ul> <li>Image: A start of the start of</li></ul>	
Convert Surface into a Series of Profiles		✓	
Build a Surface-Image	V	V	
Extract (Horizontal) Contour		✓	
Use Matlab		<ul> <li>✓</li> </ul>	
Map Local Properties		<ul> <li>✓</li> </ul>	
Remove Outliers	V	×	1
Multi-plane form removal		· ·	
High/low-pass Filter	<b></b>		
Math function		<ul> <li>✓</li> </ul>	
Structure detection			
Remove Microroughness	<b>v</b>	V	
nemove microrougnness			I .

#### Surfaces



# Series of Surfaces

STUDIES ON SERIES OF SURFACES	Standard	Premium
Pseudo-colour View		<ul> <li>✓</li> </ul>
3D View		<ul> <li>✓</li> </ul>
<ul> <li>3D Surface Flight + AVI exportation</li> </ul>		<ul> <li>✓</li> </ul>
Abbott-Firestone Curve		V
Parameters Table		<ul> <li>✓</li> </ul>
• 3D parameters, group A (Height & Bearing ratio)		V
<ul> <li>3D parameters, group B (Spatial &amp; Hybrid)</li> </ul>		<ul> <li>✓</li> </ul>
• 3D parameters, group C (Functional)		<ul> <li>✓</li> </ul>
<ul> <li>3D parameters, group D (Features)</li> </ul>		<ul> <li>✓</li> </ul>
• 3D parameters, group E (Form)		<b>~</b>
Grid of images of the series		<b>v</b>
OPERATORS ON SERIES OF SURFACES	Standard	Premium
Level		<ul> <li>Image: A start of the start of</li></ul>
option Include/Exclude zones		<b>~</b>
Extract Area (Zoom)		<ul> <li>✓</li> </ul>
Mirror (Symmetries)		<b>~</b>
Spatial Filter		<ul> <li>✓</li> </ul>
• Option edge filters + custom filters		<b>~</b>
Resample		✓
Fill in Non-measured Points		<b>~</b>
Build of a Series of Surfaces		<ul> <li>✓</li> </ul>
Use Matlab		<b>~</b>
Math function		<ul> <li>✓</li> </ul>
Remove Microroughness		V
Extraction from the series		<ul> <li>✓</li> </ul>
Extraction of a series of profiles from the series		<b>v</b>
Transversal profile extraction		<ul> <li>✓</li> </ul>
Series Resampling		<ul> <li>Image: A set of the set of the</li></ul>
T-Axes edition		
Lateral alignment of surfaces		V
Reduction of the number of images by KL transform		V



STUDIES ON SURFACE + IMAGE	Standard	Premium
Pseudo-colour View	<ul> <li>Image: A start of the start of</li></ul>	<ul> <li>✓</li> </ul>
3D View	✓	<ul> <li>Image: A set of the set of the</li></ul>
<ul> <li>3D Surface Flight + AVI exportation</li> </ul>	✓	<ul> <li>Image: A start of the start of</li></ul>
Abbott-Firestone Curve	✓	<ul> <li>✓</li> </ul>
Slices	✓	<ul> <li>✓</li> </ul>
Volume of a Hole / Peak	✓	<ul> <li>✓</li> </ul>
Distance Measurement (& horizontal angle & position)	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>✓</li> </ul>
Step Height		<ul> <li>✓</li> </ul>
Parameters Table	✓	<ul> <li>✓</li> </ul>
• 3D parameters, group A (Height & Bearing ratio)		<ul> <li>✓</li> </ul>
<ul> <li>3D parameters, group B (Spatial &amp; Hybrid)</li> </ul>		<ul> <li>✓</li> </ul>
<ul> <li>3D parameters, group C (Functional)</li> </ul>		<ul> <li>✓</li> </ul>
<ul> <li>3D parameters, group D (Features)</li> </ul>		<ul> <li>✓</li> </ul>
• 3D parameters, group E (Form)		<ul> <li>✓</li> </ul>
Texture Direction		<ul> <li>✓</li> </ul>
Particle analysis		<ul> <li>Image: A start of the start of</li></ul>
Grid of images of the series		<ul> <li>✓</li> </ul>

### Surfaces + images

and of images of the series		
OPERATORS ON SURFACE + IMAGE	Standard	Premium
Level	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
<ul> <li>option Include/Exclude zones</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Partition and level	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Extract Area (Zoom)	<b>~</b>	<ul> <li>✓</li> </ul>
Mirror (Symmetries)	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Rotate	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Standard Filter (Gaussian & Spline)	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Spatial Filter	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
<ul> <li>Option edge filters + custom filters</li> </ul>		<ul> <li>✓</li> </ul>
Threshold	<ul> <li>✓</li> </ul>	<b>v</b> <b>v</b>
Resample	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Retouch Surface Points		<ul> <li>✓</li> </ul>
Fill in Non-measured Points	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Remove Form		<ul> <li>✓</li> </ul>
<ul> <li>option Include/Exclude zones</li> </ul>	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Extract Profile	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
<ul> <li>option Circular &amp; User-defined path</li> </ul>		<b>v</b> <b>v</b>
Patch Surfaces		<ul> <li>✓</li> </ul>
Stitch		<ul> <li>✓</li> </ul>
Edit Axes	<b>~</b>	V
Build a Surface-Image	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Extract (Horizontal) Contour		Image: A start of the start
Use Matlab		<ul> <li>✓</li> </ul>
Map Local Properties		<b>~</b>
Remove Outliers	<ul> <li>✓</li> </ul>	<b>v</b> <b>v</b>
Multi-plane form removal		
High/low-pass Filter	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Surface extraction	<ul> <li>✓</li> </ul>	V
Layer fusion	✓ ✓	<ul> <li>✓</li> </ul>
Image Conversion/extraction	<ul> <li>✓</li> </ul>	V
Color inversion	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>



## Multilayer Surface

STUDIES ON MULTILAYER SURFACE	Standard	Premium
Pseudo-colour View		<ul> <li>Image: A set of the set of the</li></ul>
3D View		<ul> <li>Image: A set of the set of the</li></ul>
<ul> <li>3D Surface Flight + AVI exportation</li> </ul>		<ul> <li>Image: A start of the start of</li></ul>
Abbott-Firestone Curve		<ul> <li>Image: A set of the set of the</li></ul>
Distance Measurement (& horizontal angle & position)		<ul> <li>Image: A set of the set of the</li></ul>
Step Height		<ul> <li>Image: A set of the set of the</li></ul>
Parameters Table		<ul> <li>Image: A start of the start of</li></ul>
• 3D parameters, group A (Height & Bearing ratio)		<ul> <li>Image: A second s</li></ul>
• 3D parameters, group B (Spatial & Hybrid)		<ul> <li>Image: A start of the start of</li></ul>
• 3D parameters, group C (Functional)		<ul> <li>Image: A set of the set of the</li></ul>
<ul> <li>3D parameters, group D (Features)</li> </ul>		<ul> <li>Image: A set of the set of the</li></ul>
• 3D parameters, group E (Form)		<ul> <li>Image: A set of the set of the</li></ul>
Texture Direction		<ul> <li>Image: A start of the start of</li></ul>
Particle analysis		<ul> <li>Image: A set of the set of the</li></ul>
Grid of images of the series		<b>v</b>

OPERATORS ON MULTILAYER SURFACE	Standard	Premium
Level		✓
<ul> <li>option Include/Exclude zones</li> </ul>		<ul> <li>✓</li> </ul>
Level Line by Line		✓
<ul> <li>option Include/Exclude zones in line correction</li> </ul>		<ul> <li>✓</li> </ul>
Partition and level		<ul> <li>✓</li> </ul>
Extract Area (Zoom)		<ul> <li>✓</li> </ul>
Mirror (Symmetries)		<ul> <li>✓</li> </ul>
Rotate		<b>V</b>
Standard Filter (Gaussian & Spline)		<ul> <li>✓</li> </ul>
Spatial Filter		V
<ul> <li>Option edge filters + custom filters</li> </ul>		<ul> <li>✓</li> </ul>
Threshold		<ul> <li>✓</li> </ul>
Resample		<ul> <li>✓</li> </ul>
Retouch Surface Points		V
Fill in Non-measured Points		<ul> <li>✓</li> </ul>
Remove Form		<ul> <li>✓</li> </ul>
<ul> <li>option Include/Exclude zones</li> </ul>		<ul> <li>✓</li> </ul>
Extract Profile		<ul> <li>✓</li> </ul>
<ul> <li>option Circular &amp; User-defined path</li> </ul>		<ul> <li>✓</li> </ul>
Stitch		V
Edit Axes		<ul> <li>✓</li> </ul>
Tip Deconvolution		V
Correct Lines by Interpolation		<ul> <li>✓</li> </ul>
Use Matlab		<ul> <li>✓</li> </ul>
Map Local Properties		<ul> <li>✓</li> </ul>
Multi-plane form removal		<b>v</b>
High/low-pass Filter		<ul> <li>✓</li> </ul>
Math function		<ul> <li>✓</li> </ul>
Surface extraction		
Layer fusion		



True Colour ViewImage: Colour ViewDistance Measurement (& horizontal angle & position)Image: Colour ViewDistance Measurement (& horizontal angle & position)Image: Colour ViewParticle analysisImage: Colour ViewParticle analysisImage: Colour ViewOPERATORS ON IMAGESStandardPeremiumImage: Colour ViewExtract Area (Zoom)Image: Colour ViewMirror (Symmetries)Image: Colour ViewRotateImage: Colour ViewSpatial FilterImage: Colour ViewRetouch Image PointsImage: Colour ViewStitchImage: Colour ViewEdit AxesImage: Colour ViewBuild Series of ImagesImage: Colour ViewBuild Surface+Image StudiableImage: Colour ViewExtract (Horizontal) ContourImage: Colour ViewConvert Image into SurfaceImage: Colour ViewEnhance ImageImage: Colour ViewHigh/low-pass FilterImage: Colour ViewScale ImageImage: Colour ViewResampleImage: Colour ViewColour ViewResample </th <th></th> <th></th> <th></th>			
Distance Measurement (& horizontal angle & position)Image: Constraint of the second secon	STUDIES ON IMAGES	Standard	Premium
Texture DirectionImage: Constraint of the	True Colour View	<ul> <li>✓</li> </ul>	<ul> <li>Image: A start of the start of</li></ul>
Particle analysisImage: standard	Distance Measurement (& horizontal angle & position)	<ul> <li>✓</li> </ul>	<b>V</b>
DPERATORS ON IMAGESStandardPremiumExtract Area (Zoom)Mirror (Symmetries)RotateSpatial FilterRetouch Image PointsStitchEdit AxesBuild Series of ImagesBuild Surface+Image StudiableExtract (Horizontal) ContourConvert Image into SurfaceHigh/low-pass FilterScale ImageResample	Texture Direction		<b>~</b>
Extract Area (Zoom)IIMirror (Symmetries)IIRotateIISpatial FilterIISpatial FilterIIRetouch Image PointsIIStitchIIEdit AxesIIBuild Series of ImagesIIBuild Surface+Image StudiableIIExtract (Horizontal) ContourIIConvert Image into SurfaceIIHigh/low-pass FilterIIScale ImageIIResampleIIResampleII	Particle analysis		<b>v</b>
Mirror (Symmetries)Image PointsImage PointsSpatial FilterImage PointsImage PointsStitchImage PointsImage PointsScale ImageImage PointsImage PointsScale Image PointsImage PointsImage PointsScale Im	OPERATORS ON IMAGES	Standard	Premium
RotateImage PointsImage PointsStitchImage PointsImage PointsStitchImage PointsImage PointsEdit AxesImage PointsImage PointsBuild Series of ImagesImage PointsImage PointsBuild Surface+Image StudiableImage PointsImage PointsExtract (Horizontal) ContourImage PointsImage PointsConvert Image into SurfaceImage PointsImage PointsEnhance ImageImage PointsImage PointsHigh/Iow-pass FilterImage PointsImage PointsScale ImageImage PointsImage PointsColor inversionImage PointsImage PointsResampleImage PointsImage	Extract Area (Zoom)	<ul> <li>✓</li> </ul>	<b>~</b>
Spatial FilterImage PointsImage PointsStitchImage PointsImage PointsStitchImage PointsImage PointsEdit AxesImage PointsImage PointsBuild Series of ImagesImage PointsImage PointsBuild Surface+Image StudiableImage PointsImage PointsExtract (Horizontal) ContourImage PointsImage PointsConvert Image into SurfaceImage PointsImage PointsEnhance ImageImage PointsImage PointsHigh/Iow-pass FilterImage PointsImage PointsScale ImageImage PointsImage PointsColor inversionImage PointsImage PointsResampleImage PointsImage PointsResampleImage PointsImage PointsResampleImage PointsImage PointsScale ImageImage PointsImage PointsScale Image PointsImage Points <t< td=""><td>Mirror (Symmetries)</td><td><ul> <li>✓</li> </ul></td><td>V</td></t<>	Mirror (Symmetries)	<ul> <li>✓</li> </ul>	V
Retouch Image PointsIStitchIEdit AxesIBuild Series of ImagesIBuild Series of ImagesIBuild Surface+Image StudiableIExtract (Horizontal) ContourIConvert Image into SurfaceIEnhance ImageIHigh/Iow-pass FilterIScale ImageIColor inversionIResampleI	Rotate	<ul> <li>✓</li> </ul>	<ul> <li>Image: A start of the start of</li></ul>
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Edit AxesImage: Constraint of the second of the	Retouch Image Points	<ul> <li>✓</li> </ul>	<ul> <li>Image: A set of the set of the</li></ul>
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Build Surface+Image StudiableImage StudiableExtract (Horizontal) ContourImageConvert Image into SurfaceImageEnhance ImageImageHigh/Iow-pass FilterImageScale ImageImageColor inversionImageResampleImage	Edit Axes	<ul> <li>✓</li> </ul>	<b>~</b>
Extract (Horizontal) ContourImageConvert Image into SurfaceImageEnhance ImageImageHigh/low-pass FilterImageScale ImageImageColor inversionImageResampleImage	Build Series of Images		<b>~</b>
Convert Image into SurfaceImageEnhance ImageImageHigh/low-pass FilterImageScale ImageImageColor inversionImageResampleImage	Build Surface+Image Studiable	<ul> <li>✓</li> </ul>	<ul> <li>Image: A set of the set of the</li></ul>
Enhance ImageImageHigh/low-pass FilterImageScale ImageImageColor inversionImageResampleImage	Extract (Horizontal) Contour		<b>&gt;</b>
High/low-pass FilterImageScale ImageImageColor inversionImageResampleImage	Convert Image into Surface	<ul> <li>✓</li> </ul>	<ul> <li>Image: A start of the start of</li></ul>
Scale Image     ✓       Color inversion     ✓       Resample     ✓	Enhance Image	<ul> <li>Image: A second s</li></ul>	<b>~</b>
Color inversion V V Resample V	High/low-pass Filter		
Resample 🗸	Scale Image		
· · · · · · · · · · · · · · · · · · ·	Color inversion	<ul> <li></li> </ul>	<b>~</b>
· · · · · · · · · · · · · · · · · · ·	Resample		
	Structure detection		

### Surfaces + images

STUDIES ON SERIES OF IMAGES	Standard	Premium	
True Colour View	<b>~</b>	<ul> <li>✓</li> </ul>	Cont
Grid View of the Series of Images		<ul> <li>✓</li> </ul>	Serie
OPERATORS ON SERIES OF IMAGES	Standard	Premium	l ima
Extract Area (Zoom)	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
Edit Axes	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
Build Series of Images		<ul> <li>✓</li> </ul>	
Color inversion	<b>v</b>	<ul> <li>✓</li> </ul>	
Resample		<ul> <li>✓</li> </ul>	
Extract Image		<ul> <li>Image: A set of the set of the</li></ul>	
Shift Surfaces		<ul> <li>✓</li> </ul>	
Multifocus Reconstruction		<ul> <li>Image: A set of the set of the</li></ul>	
Resample T-Axis		<ul> <li>✓</li> </ul>	
T-Axes edition		<ul> <li>Image: A start of the start of</li></ul>	

Series of mages



# Optional Modules



MODULES	Standard	Premium
Advanced Profile		✓
Contour		✓
Advanced Contour		
Automotive		✓
Advanced Topography		✓
Fourier & Wavelets		✓
Surface Stitching		✓
Shell Extension		
Lead Analysis (Twist)		
Particle Analysis		✓
Scale-Sensitive Analysis		
4D Series		<ul> <li>Image: A start of the start of</li></ul>
Statistics		<b>v</b>





#### SENSOFAR is a leading-edge technology company that has the highest quality standards within the field of surface metrology

Sensofar Metrology provides high-accuracy optical profilers based on confocal, interferometry and focus variation techniques, from standard setups for R&D and quality inspection laboratories to complete non-contact metrology solutions for in-line production processes. The Sensofar Group has its headquarters in Barcelona, also known as a technology and innovation hub in Europe. The Group is represented in over 30 countries through a global network of partners and has its own offices in Asia, Germany and the United States.

#### HEADQUARTERS

SENSOFAR METROLOGY | BARCELONA (Spain) | T. +34 93 700 14 92 | info@sensofar.com

#### SALES OFFICES

SENSOFAR ASIA | SHANGHAI (China) | T. +86 021 51602735 | info.asia@sensofar.com SENSOFAR GERMANY | MUNICH (Germany) | T. +49 151 14304168 | info.germany@sensofar.com SENSOFAR USA | NEWINGTON (USA) | T. +1 617 678 4185 | info.usa@sensofar.com

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