



SensoMAP v9 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:

- Desition 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
- **D** 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

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	Multilayer surfaces enabled		<ul> <li>✓</li> </ul>
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	Series of RGB Images enabled		<ul> <li>✓</li> </ul>



STUDIES OF THE STATISTICS MODULE	Standard	Premium
Table of statistical parameters		<ul> <li>✓</li> </ul>
Trend plot		V
Scatter plot		<ul> <li>✓</li> </ul>
Histogram		v
Box plot		<ul> <li>✓</li> </ul>

General	
Features	)

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

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

Profiles



# Profiles

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



			I
STUDIES ON SERIES OF PROFILES	Standard	Premium	
Profile Curve		<ul> <li></li> </ul>	Series o
Abbott-Firestone Curve		<ul> <li></li> </ul>	Jenes U
Step Height		✓	Profiles
<ul> <li>Step Height option with automatic and ISO5436 mode</li> </ul>		4	TTOTICS
Parameters Table		<ul> <li>✓</li> </ul>	
• 2D (P+R) Parameters, Group A: Base parameters		$\checkmark$	
• 2D (P+R) Parameters, Group B: old parameters		<ul> <li>✓</li> </ul>	
• Waviness parameters of groups A and/or B		<ul> <li>✓</li> </ul>	
• 2D Parameters, Group C: Automotive		<ul> <li>✓</li> </ul>	
• 2D Parameters, Group D: Form Deviation		<ul> <li>Image: A start of the start of</li></ul>	
Plastic Parameters AF, PG, CH		✓	
OPERATORS ON SERIES OF PROFILES	Standard	Premium	
Level		<ul> <li>Image: A start of the start of</li></ul>	
Extract Area (Zoom)		<ul> <li>Image: A start of the start of</li></ul>	
option autozoom on flat portion		<ul> <li>✓</li> </ul>	
Mirror (Symmetries)		✓	
Fill in Non-measured Points		<ul> <li>Image: A start of the start of</li></ul>	
Resample		✓	
Build Series of Profiles		✓	
Edit Axes		<ul> <li>Image: A set of the set of the</li></ul>	
Use Matlab		<ul> <li>✓</li> </ul>	
Remove Microroughness		<ul> <li>Image: A set of the set of the</li></ul>	
Convert Series of Profiles into Surface		<ul> <li>✓</li> </ul>	
Profile extraction		<ul> <li>✓</li> </ul>	
Resample T-Axis		<ul> <li>✓</li> </ul>	
Edit T-Axes		<ul> <li>✓</li> </ul>	
Automatic lateral alignment of profiles		<ul> <li>Image: A start of the start of</li></ul>	
Automatic lateral alignment of profiles			

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



OPERATORS ON SURFACES	Standard	Premium	1
Level	✓	<ul> <li>✓</li> </ul>	C
<ul> <li>option Include/Exclude zones</li> </ul>	✓	<ul> <li>✓</li> </ul>	5
Level Line by Line		<ul> <li>✓</li> </ul>	
<ul> <li>option Include/Exclude zones in line correction</li> </ul>		✓	
Partition and level	✓	<ul> <li>✓</li> </ul>	
Extract Area (Zoom)	✓	<ul> <li>✓</li> </ul>	
Mirror (Symmetries)	✓	<ul> <li>✓</li> </ul>	
Rotate	✓	<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>	<ul> <li>✓</li> </ul>	
Retouch Surface Points	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
Fill in Non-measured Points	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>Image: A start of the start of</li></ul>	
Remove Form	<ul> <li>✓</li> </ul>	<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>	I
<ul> <li>option Circular &amp; User-defined path</li> </ul>		<ul> <li>✓</li> </ul>	
Subtract two Surfaces	V	<ul> <li>✓</li> </ul>	
Divide two Surfaces		<ul> <li>✓</li> </ul>	
Patch Surfaces		<ul> <li>✓</li> </ul>	
Stitch		<ul> <li>✓</li> </ul>	
Filter the Spectrum		<ul> <li>✓</li> </ul>	i –
Threshold the Spectrum		<ul> <li>✓</li> </ul>	
FFT Spectrum		<ul> <li>✓</li> </ul>	
Autocorrelate		✓ ✓	
Intercorrelate two surfaces		· ·	
Wavelet Transform		<ul> <li>✓</li> </ul>	
Edit Axes	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>	
Tip Deconvolution		<ul> <li>✓</li> </ul>	
Correct Lines by Interpolation		~	
Build of a Series of Surfaces		<ul> <li>✓</li> </ul>	
Convert Surface into a Series of Profiles		✓	
Build a Surface-Image	<b>v</b>	<ul> <li>✓</li> </ul>	
Extract (Horizontal) Contour		<ul> <li>✓</li> </ul>	I
Use Matlab		<ul> <li>Image: A start of the start of</li></ul>	
Map Local Properties		~	
Remove Outliers	<b>v</b>	<ul> <li>✓</li> </ul>	1
Multi-plane form removal		<ul> <li>✓</li> </ul>	
High/low-pass Filter	V	<ul> <li>✓</li> </ul>	
Math function		· ·	
Structure detection		<ul> <li>✓</li> </ul>	1
Remove Microroughness	<b>v</b>	· ·	

#### Surfaces



# Series of Surfaces

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



STUDIES ON SURFACE + IMAGE	Standard	Premium
Pseudo-colour View	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>✓</li> </ul>
3D View		<ul> <li>✓</li> </ul>
<ul> <li>3D Surface Flight + AVI exportation</li> </ul>	<ul> <li>Image: A start of the start of</li></ul>	<ul> <li>✓</li> </ul>
Abbott-Firestone Curve	✓	<ul> <li>✓</li> </ul>
Slices	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>✓</li> </ul>
Volume of a Hole / Peak	<ul> <li>Image: A set of the set of the</li></ul>	<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>Image: A set of the set of the</li></ul>	<ul> <li>✓</li> </ul>
Parameters Table	<ul> <li>Image: A set of the set of the</li></ul>	<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		
Grid of images of the series		<ul> <li>✓</li> </ul>

#### Surfaces + images

Grid of images of the series		<ul> <li>✓</li> </ul>
OPERATORS ON SURFACE + IMAGE	Standard	Premium
Level	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
<ul> <li>option Include/Exclude zones</li> </ul>	<b>~</b>	<ul> <li>✓</li> </ul>
Partition and level	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Extract Area (Zoom)	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Mirror (Symmetries)	<ul> <li>Image: A start of the start of</li></ul>	<ul> <li>✓</li> </ul>
Rotate	✓	<ul> <li>Image: A set of the set of the</li></ul>
Standard Filter (Gaussian & Spline)	<ul> <li>✓</li> </ul>	<ul> <li>Image: A start of the start of</li></ul>
Spatial Filter	<ul> <li>Image: A set of the set of the</li></ul>	<ul> <li>Image: A set of the set of the</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>
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>
<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>		<ul> <li>✓</li> </ul>
Patch Surfaces		<ul> <li>✓</li> </ul>
Stitch		<ul> <li>✓</li> </ul>
Edit Axes	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Build a Surface-Image	✓	<ul> <li>✓</li> </ul>
Extract (Horizontal) Contour		✓ ✓
Use Matlab		<ul> <li>✓</li> </ul>
Map Local Properties		<ul> <li>✓</li> </ul>
Remove Outliers	<b>v</b>	<ul> <li>✓</li> </ul>
Multi-plane form removal		<ul> <li>✓</li> </ul>
High/low-pass Filter	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Surface extraction	V	<ul> <li>Image: A start of the start of</li></ul>
Layer fusion	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Image Conversion/extraction	<ul> <li>✓</li> </ul>	
Color inversion	<b>v</b>	<ul> <li>✓</li> </ul>



# Multilayer Surface

STUDIES ON MULTILAYER SURFACE	Standard	Premium
Pseudo-colour View		<ul> <li>Image: A start of the start of</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 start of the start of</li></ul>
Step Height		<ul> <li>Image: A set of the set of the</li></ul>
Parameters Table		<ul> <li>Image: A set of the set of the</li></ul>
• 3D parameters, group A (Height & Bearing ratio)		<ul> <li>Image: A set of the set of the</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 start of the start of</li></ul>
• 3D parameters, group D (Features)		<ul> <li>Image: A start of the start of</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		✓
Grid of images of the series		<b>v</b>

OPERATORS ON MULTILAYER SURFACE	Standard	Premium
Level		<ul> <li>✓</li> </ul>
option Include/Exclude zones		<ul> <li>✓</li> </ul>
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>
Extract Area (Zoom)		<ul> <li>✓</li> </ul>
Mirror (Symmetries)		<ul> <li>Image: A start of the start of</li></ul>
Rotate		<ul> <li>✓</li> </ul>
Standard Filter (Gaussian & Spline)		<ul> <li>Image: A start of the start of</li></ul>
Spatial Filter		<ul> <li>✓</li> </ul>
<ul> <li>Option edge filters + custom filters</li> </ul>		<ul> <li>Image: A start of the start of</li></ul>
Threshold		<ul> <li>✓</li> </ul>
Resample		<ul> <li>✓</li> </ul>
Retouch Surface Points		<ul> <li>✓</li> </ul>
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		<ul> <li>✓</li> </ul>
Edit Axes		<ul> <li>✓</li> </ul>
Tip Deconvolution		<ul> <li>✓</li> </ul>
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		<ul> <li>✓</li> </ul>
High/low-pass Filter		<ul> <li>✓</li> </ul>
Math function		
Surface extraction		
Layer fusion		



STUDIES ON IMAGES	Standard	Premium
True Colour View	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Distance Measurement (& horizontal angle & position)	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Texture Direction		<ul> <li>✓</li> </ul>
Particle analysis		<ul> <li>✓</li> </ul>
OPERATORS ON IMAGES	Standard	Premium
Extract Area (Zoom)	<ul> <li>✓</li> </ul>	<ul> <li>Image: A start of the start of</li></ul>
Mirror (Symmetries)	<ul> <li>✓</li> </ul>	<ul> <li>Image: A start of the start of</li></ul>
Rotate	<ul> <li>✓</li> </ul>	<ul> <li>Image: A start of the start of</li></ul>
Spatial Filter	<ul> <li>✓</li> </ul>	<ul> <li>Image: A start of the start of</li></ul>
Retouch Image Points	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Stitch		<ul> <li>✓</li> </ul>
Edit Axes	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Build Series of Images		<ul> <li>✓</li> </ul>
Build Surface+Image Studiable	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Extract (Horizontal) Contour		<ul> <li>✓</li> </ul>
Convert Image into Surface	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Enhance Image	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
High/low-pass Filter	<b>~</b>	<ul> <li>✓</li> </ul>
Scale Image		
Color inversion	✓	
Resample		v
Structure detection		<ul> <li>✓</li> </ul>

### Surfaces + images

STUDIES ON SERIES OF IMAGES	Standard	Premium
True Colour View	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Grid View of the Series of Images		<ul> <li>✓</li> </ul>
OPERATORS ON SERIES OF IMAGES	Standard	Premium
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	<ul> <li>✓</li> </ul>	<ul> <li>✓</li> </ul>
Resample		<ul> <li>✓</li> </ul>
Extract Image		v
Shift Surfaces		<ul> <li>✓</li> </ul>
Multifocus Reconstruction		<ul> <li>✓</li> </ul>
Resample T-Axis		<ul> <li>✓</li> </ul>
T-Axes edition		<ul> <li>✓</li> </ul>

Series of mages



# Optional Modules



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





#### 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, 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.

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