



Release Notes

Version	Date
7.4.9745	September 6th 2021
7.4.9391	September 17th 2020
7.4.9286	June 4th 2020
7.4.9175	February 14th 2020
7.4.9053	October 15th 2019
7.4.8964	July 18th 2019
7.4.8872	April 17th 2019
7.4.8803	February 7th 2019
7.4.8737	December 3rd 2018
7.4.8676	October 3rd 2018
7.4.8633	August 21st 2018
7.4.8545	May 25th 2018
7.4.8495	April 5th 2018
7.4.8425	January 25th 2018
7.4.8341	November 2nd 2017
7.4.8312	October 4th 2017
7.4.8226	July 10th 2017
7.4.8164	May 9th 2017
7.4.8114	March 20th 2017
7.4.8076	February 10th 2017
7.4.8051	January 16th 2017
7.3.7984	Nov. 10th 2016
7.3.7904	August 22nd 2016
7.3.7835	June 14th 2016
7.3.7746	March 17th 2016
7.3.7690	January 21st 2016
7.2.7646	Dec. 8th 2015
7.2.7568	Sept. 21st 2015
7.2.7481	June 26th 2015
7.2.7368	March 6th 2015
7.2.7344	February 9th 2015
7.1.7288	Dec. 15th 2014
7.1.7204	Sept. 22nd 2014
7.1.7106	June 16th 2014
7.1.7045	April 16th 2014
7.0.7029	March 31st 2014
7.0.6966	January 27th 2014
7.0.6845	Sept. 30th 2013
7.0.6746	June 21st 2013

September 6th 2021

Version 7.4.9745

New feature

Search for update button: new information	A new message is displayed when selecting the Check for updates button, to inform the user that the major software (V7) is now obsolete and that the bugs will no longer be fixed. The user is advised to update to the latest major official version.
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Bug corrections (A and B type)

#	Type	Bug Description
MNT-1613	B	The "Configuration of the X/Y-origin" option of Axis settings in the General Preferences of the software is not taken into account in the Profile studiabile generated by applying the "Extract profile" operator in the North/South direction on Surface studiabiles.
MNT-1673	B	The image is not displayed in the "Scale the image" dialog box of the "Reconstruction using four quadrant images" operator and the generated image layer maybe incorrectly displayed if the source images do not have the same step in Z.

September 17th 2020

Version 7.4.9391

New feature

Force curve analysis study: single offset to distance axis.	A new "X-alignment (distance)" option in the dialog box of the "Correct the base-line" operator on Force curve, Series of force curves and Force volume studiabiles has been added. It allows the user to choose the approach curve or the retract curve to determine a single distance alignment offset to apply on all phases of a force curve.
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Bug corrections (A and B type)

#	Type	Bug Description
MNT-471	B	The software can crash or have display issues when loading documents created in V8 if the document is repeatedly opened and closed in v7.

June 4th 2020

Version 7.4.9286

New feature

Reading V8.0 and V8.1 documents	Version 7.4 is now able to read documents created with Mountains versions V8.0 and V8.1 as from version 8.0.9241 and 8.1.9276 (previous versions of 7.4 are only able to read V8.0 documents created with a version prior to and including version 8.0.9216).
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Bug corrections (A and B type)

#	Type	Bug Description
BUGS-751	A	An incompatibility is observed when using versions of Mountains prior to V8.1.9286 (which install HASP drivers 7.80 or earlier) with the Windows 10 update of May 27, 2020 (Windows Release 2004): - Upgrading the operating system to Windows 10 update 2004 may fail causing the installation to roll back if HASP drivers 7.80 or earlier are already installed on the computer. - Mountains is not installed correctly and Windows crashes (and finally restarts) if Mountains is installed on a computer with Windows 10 update 2004. Official information available here
BUGS-11790	B	Text is not displayed with the correct font size when loading V8 documents in V7 on HDPI screens.
BUGS-11737	B	Buttons cannot be used in the ribbon and toolbars when the ribbon is reduced in some studies and then reopened.

February 14th 2020

Version 7.4.9175

Bug corrections (A and B type)

#	Type	Bug Description
BUGS-11062	B	A freeze can be observed in the Advanced Contour study if a DXF is fitted to the profile and copied, and the DXF contains a polyline.
BUGS-11190	B	The resulting direction of the Texture isotropystudy on surfaces is incorrect in some specific cases where the autocorrelation of the surface touches the edges of the study.
BUGS-11571	B	Deviation parameters are not visible in the mini-toolbar in the Advanced Contour study.

October 15th 2019

Version 7.4.9053

Bug corrections (A and B type)

#	Type	Bug Description
BUGS-10438	B	Fitting of a DXF and a profile is not optimised in the Advanced Contour analysis study in certain specific cases.

July 18th 2019

Version 7.4.8964

Bug corrections (A and B type)

#	Type	Bug Description
BUGS-10635	A	A crash is observed in the stitching operator on surfaces if an operator is inserted into the workflow before one of the surfaces used for the Stitching operation.
BUGS-10103	A	The Automatic structure exclusion in the Level and in the Form removal operator are incorrect (It applies a Line leveling correction).
BUGS-10034	A	The software may crash in rare cases when the user closes the software.
BUGS-10610	B	The result of the Map local properties operator on surfaces can erroneously give the Z axis scale in heights when the Sdq parameter is mapped and the general preferences are set to Without units for this parameter.
BUGS-10559	B	Absolute Y axis values can be shown incorrectly if the data file is in X3P format and there is an offset on this axis.
BUGS-10012	B	The Leveling operator on profiles can give an incorrect result if the Minimum zone method is used and if a peak or a valley is on the edge of the profile.

April 17th 2019

Version 7.4.8872

Bug corrections (A and B type)

#	Type	Bug Description
BUGS-9980	A	A crash can be observed in the Summary of last operator when used on Extract spectra of a hyperspectral cube if spectra are added and removed several times by double-clicking in the preview window.

BUGS-9834	A	The software might crash in the Stereoscopic reconstruction operator if the "Ignore flattest areas" sidebar is moved and then the "Rotate all disparities" button is pressed.
BUGS-9729	A	A crash can be observed in the Stereoscopic reconstruction operator if the images are taller than they are wide.
BUGS-9665	A	An intermittent crash can be observed in the Stereo reconstruction operator during calculations.
BUGS-9375	A	The software crashes when saving an edited Minidoc based on a studiable if the edited Minidoc no longer contains any studiables.
BUGS-8961	A	The software can crash in the Sort spectra operator of hyperspectral cubes if zones have been added and removed by a double click.
BUGS-9982	B	Certain files might not correctly be used in a template environment if several studiables are contained in one file.
BUGS-9786	B	The Fit the baseline function can be incorrectly applied in a Spectrum analysis study when substituting the original spectrum.
BUGS-9667	B	Units are not applied during the export of values to TXT files for profiles and surfaces.
BUGS-9662	B	Certain CSV files may not be correctly loaded if the points are not aligned in the X and Y axes.
BUGS-9621	B	Graduations on the relative length axis can be incorrectly labeled in the Scale Sensitive Fractal analysis study.
BUGS-9616	B	The choice of PDF viewer is not remembered in the Welcome dialog when the 5 Things to know button is pressed and the box "Always use this app to open .pdf files" is checked.

February 7th 2019

Version 7.4.8803

New features

Automatic alignment of images with the X or Y axes	A new option has been added to the Rotate operator for RGB images which can now be aligned automatically with the X or Y axes.
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Bug corrections (A and B type)

#	Type	Bug Description
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BUGS-9544	A	The software crashes in the Force curve analysis study during substitution of the studiable if the original studiable in the document shows the WLC model and the substituted studiable is not adapted for protein unfolding events.
BUGS-8965	A	A crash is observed in the Create density maps operator dialog on Hyperspectral cubes when the Optimize button is pressed in the Density map of the reference spectrum preview.
BUGS-8815	B	The visualization of the force curve analysis study is incorrect if the user double clicks inside the study and the automatic detection of protein unfolding events is set to show the WLC model.
BUGS-9537	B	The visualization of a force volume study or parameter map is badly displayed (blurred) when the study is copied to the clipboard and pasted as a vectorial image into the document.
BUGS-9546	B	The table of results might be missing when calculated on a statistical population.
BUGS-9273	B	The shape of the curve in the Flattened view of a force volume studiable is incorrect
BUGS-9332	B	The results of the Averaged Power Density Spectrum can show unexpected peaks in some cases, depending on the settings of the study, the number of iterations or the direction.
BUGS-9420	B	The results of the Average Powered Spectrum Density study are not displayed in log axis when the settings are set to Imposed scale with Absolute values.
BUGS-9505	B	The Z-heights are inversed when reloading the profile of a Peak distribution exported from the Peak count study.
BUGS-9398	B	The Extract profile operator can produce erroneous results for a Multi-layer studiable when recalling the operator after substituting the studiable with one having a different number of layers.
BUGS-9489	B	A small error can be perceived in parameter results calculated on profiles when the Robust Gaussian filter is used on profiles containing non-measured points.

December 3rd 2018

Version 7.4.8737

New features

Threshold operator: new absolute height possibility	A new reference has been added to the Threshold operator to allow thresholding with respect to the heights in absolute values. Available in Threshold and Binary threshold operators on surfaces, profiles, multilayers, surface+images and hyperspectral cubes
Export frame as image by command line or file	It is now possible to export a specific frame as an image either by command line or by command file. Different image formats are supported: JPEG, TIF, BMP etc.
Updated Subscription licence management	Subscription licence management has been updated to allow the user to better determine when his subscription period begins.

Bug corrections (A and B type)

#	Type	Bug Description
BUGS-9389	A	The time remaining period is incorrectly calculated for a subscription-type dongle. This means that the time remaining for use is shown to be finished before the end of the subscription period.
BUGS-9358	A	The software can crash when being used in an ActiveX environment where the command includes SubstituteStudiableWithStudiableUsingName.
BUGS-9336	A	A crash is observed if an add-on operator dialog box has been opened and untouched for more than 15 minutes (or the time related to the Autosave function).
BUGS-9148	A	A crash can be observed in the stereo reconstruction operator when the high-resolution construction method is selected and the computer is using the 32-bit version of the software.
BUGS-9118	A	The software crashes if the user clicks on a Contour study that contains DXF elements if no contour study has been used since the beginning of the Mountains session.
BUGS-9310	A	The software crashes in the Contour analysis study if an Index point is created using Start counting from the other end and a value higher than the number of points in the profile is entered.
BUGS-9092	A	The display of a force curve analysis can be incorrect in a series of force curves if the Automatic detection of a single adhesion event is selected in the cursor detection setup.
BUGS-9062	A	The software freezes when the standard filter operator is recalled if the document is used in an ActiveX environment containing information in C# and the computer is under the Windows 7 operating system.
BUGS-9260	B	An element cannot be selected by right-click on the element in the Contour object pane if the right click is made immediately after the creation of an element in the study.
BUGS-9352	B	The number of the force curve in a series of force curves is not updated if the series only shows the Force curve and T axis parameters and the user navigates through the series.
BUGS-9324	B	The result of the 3D view study on a surface+image type studiable is not displayed if the studiable is large (eg. Larger than 8500 x 8500 points).
BUGS-8955	B	Automatic structure exclusion is not taken into account for each surface individually in the Level operator on a series of surfaces. The same problem is observed on Multi-layer studiabler.
BUGS-9246	B	The topography layer can show inconsistent heights in the Multifocus reconstruction operator depending on the window size in the reconstruction settings.
BUGS-9008	B	An incorrect error message is received when the software tries to save a document if the document contains one or more huge studiabler and the document can't be saved.
BUGS-9221	B	The results of the Sort spectra operator on a series of Spectra are not included either in the document or in the workflow if no spectra are included in the results to generate, nor is an error message generated.
BUGS-9106	B	Results are not shown in the Results manager when the user displays the Summary of the last operator on a Remove form operator if the degree of polynomial is more than 2 and the Enter button is used to validate the Remove form operator.
BUGS-9081	B	The threshold operator is not applied if the unit was of a very different type last time this operator was used.
BUGS-8320	B	The Bin directory of the software is not correctly deleted when uninstalling the software if Check for update or an easy update was used to update the software.
BUGS-9247	B	The Z axis unit of a profile can be incorrect if the profile is generated from a Contour study as a dynamic studiable on the residue between two points.
BUGS-9274	B	The values of certain parameters in a Parameter map study can be incorrect if the numbers have complex units.

BUGS-7170	B	The Z scale values and graduations are incorrect in a Strips view study for spectra when the Z axis is displayed with logarithmic scale.
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October 3rd 2018

Version 7.4.8676

New features

Partner-product free trial	It is now possible to use a partner-product during the first 72h trial period. If the installation code begins by 3, and is the installation code of the product of a partner, the installed version now has the behavior of the partner product. (Previously, only the name and path corresponded to the product, but the functions corresponded to DigitalSurf products. The use of a partner-product was only possible after activation by an 30 days activation code)
Export of Tolerance limits via Results manager	When exporting results via the Results manager, the user has the choice to also export any tolerance limits associated with the results.
New Objects list panel in Contour study.	When a Contour study is selected, an extra "Contour object list" panel, showing the objects created (elements and dimensions), is shown and behaves in the same way as other panels. The objects' names can be changed either by 2 single clicks on the name or by selecting and pressing the F2 button. Modified names are shown in the Results manager as well as in the Contour Objects panel and are kept in studies using the names (Tolerance limits, Table of results, Statistics documents) and in exports to a text file. Clicking on an object in this panel highlights the object in the study. Objects can be shown or hidden according to type. Objects can be sorted by type or by name in the panel.

Bug corrections (A and B type)

#	Type	Bug Description
BUGS-8545	A	The installation of the software sometimes stalls during dongle driver installation if a USB protection key is plugged into the computer.
BUGS-8947	A	The software crashes in the Change logo function if the file format is incompatible.
BUGS-7824	B	The results of the Stitching operator can be imprecise if the offsets of the elements to be stitched do not contain an identical overlap.

BUGS-8113	B	The results of the Standard filter are not calculated on a Surface+Image or a Multilayer type studiable if the General preferences are set to Manage end effects and the operator is set to Cut profile ends.
BUGS-8285	B	An error message can be received when launching Mountains if the File explorer on the client computer lists directories to which the user does not have access.
BUGS-8348	B	The result of the Stereoscopic reconstruction operator may sometimes show incorrect ripples, especially if the sample is flat and tilted.
BUGS-8864	B	The Zoom using the mouse wheel doesn't change the view of the surface in the Contour lines study if the document is shown larger than 100%
BUGS-9060	B	Non-printable frames are incorrectly taken into account when printing is requested.

August 21st 2018

Version 7.4.8633

New features

Larger number of user Minidocs allowed	The number of user-created Minidocs has been augmented from 40 to 200 per type of studiable.
PDF batch printing command	Batch printing of documents via a command file has been enhanced to also accept printing to PDF format.

Bug corrections (A and B type)

#	Type	Bug Description
BUGS-8667	A	A crash can be observed in the Join profile operator if the units of the X axes are of different types.
BUGS-8682	A	The software crashes in the Stitching operator in the product MountainsMap SPM.
BUGS-7824	B	The results of the Stitching operator can be imprecise if the offsets of the elements to be stitched do not contain an identical overlap.

BUGS-7857	B	The display can occasionally be incorrect in the Tip deconvolution operator in cases where there is a large range in the Z axis.
BUGS-8378	B	The results of the Partition and level operator are incorrect if the surface has a large slope.
BUGS-8441	B	An incorrect error message is displayed in the Stereo reconstruction operator if the tilt angle is negative.
BUGS-8670	B	"Created on" information is not shown correctly in the Identity card study if the studiable is in the SDF file format.
BUGS-8681	B	Extremum detection can be erroneous in the Motifs analysis study when the Detect shapes method is used.
BUGS-8694	B	The result of the Subtract profiles operator can be erroneous if the number of points on the Z axis is too large (seen, for example, if the units on the Z axes are too different).
BUGS-8729	B	The visualization of the shape of the motifs can be incorrect in the R&W motifs study (parameters calculated are not affected).
BUGS-8792	B	Positioning can be very difficult in the Distance measurement study on surfaces, especially when placing near the edge of the study.

May 25th 2018

Version 7.4.8545

Bug corrections (A and B type)

#	Type	Bug Description
BUGS-8492	A	The results of the deprecated Mean spacing of local pits of the profile parameters (PS/RS/WS) are incorrectly calculated by a small margin.
BUGS-8524	A	The calculation of the Plo parameter can be incorrect on short profiles.
BUGS-8538	A	Short-term loan dongles cannot be activated or the loan period extended.
BUGS-8075	B	It is not possible to Patch surfaces having different spacing in the Z axis if the Compute X, Y offsets option is checked.
BUGS-8389	B	An arc of ellipse can be misaligned to the DXF in the Advanced Contour study if the the Copy DXF box is checked when filling the profile to the DXF.
BUGS-8394	B	An arc of ellipse created on a profile in the Advanced Contour study cannot be aligned to a DXF if the DXF contains only an ellipse.

BUGS-8469	B	Levelling surfaces by rotation does not give satisfactory results on surfaces having a very large slope.
BUGS-8486	B	An arc of ellipse in a DXF file is not displayed correctly in the Advanced Contour study if its angle is larger than $3\pi/2$.
BUGS-8494	B	Spring sensitivity and spring constant information is not taken into account in the Calibrate force curve constants operator.
BUGS-8510	B	The unit of the Young's modulus can be incorrect in the Parameter map study on force volumes.
BUGS-8513	B	The Parameter map study cannot be generated on a Force curve analysis study if only the Young's modulus is calculated but there is no cursor detection.
BUGS-8533	B	An option for a Fast algorithm is greyed out in the Fill in non measured points operator for profiles. This option is only available for surfaces and should not be visible for profiles.

April 4th 2018

Version 7.4.8495

New features

New study: Scale Sensitive Fractal analysis	New Scale Sensitive Fractal analysis study (multiscale methods) is available for analyzing geometric properties of surfaces and their scale derivatives (complexities) including length-scale and area-scale methods. It incorporates functions and parameters of Sfrax and Toothfrax softwares, and is applicable on Surface and Profile studiabiles.
Series of images can be created during extraction in Co-localization study	In a Co-localization study applied only on images, the Extract selection will create a series of images.
Updated Network dongle installation document	The document "How to install a Network dongle" in the Hasp folder of the installation package has been revised and updated.

Bug corrections (A and B type)

#	Type	Bug Description
BUGS-8269	A	A crash might be observed in the Convert into binary image operator by thresholding if the studiabile to be converted is very large.

BUGS-8332	A	The software crashes in the Extract slices operator on CITS cubes when the Source mean spectrum box is resized.
BUGS-8334	A	Different cut offs are available for the 2RC filter in the General preferences despite them being unalterable according to the (deprecated) norm.
BUGS-8343	A	The software crashes in the Clean up spectra operator on CITS cubes if either the Signal or the Type of limits is changed.
BUGS-8359	A	A crash is observed in the Sort spectra operator on CITS cubes when a selection box is deleted in the source view.
BUGS-8458	A	A crash can occur in the Valley depth study when the selected area is moved to the edge of the studiable and where there are non-measured points touching the edge where the selected area is requested.
BUGS-8200	B	The Z-axis offset of the Partitioned surface generated from the Partition and level operator is incorrect (absolute values are not kept).
BUGS-8294	B	An arc of circle element might be badly positioned in the Advanced Contour study if the origin of the study has been moved since its creation and it is exported and then reimported using DXF alignment.
BUGS-8299	B	The Arc of ellipse from profile element can occasionally be overextended to the radius of the element in the Advanced Contour analysis study.
BUGS-8301	B	The scale orientation of the Axes settings for the Z axis may not be taken into account in the 3D View study on a multilayer surface.
BUGS-8306	B	A circle element can be deleted in the Contour study if it has been created from its center and a radius, then a segment has been created from the same point and is subsequently deleted.
BUGS-8311	B	The Optimize color scale preview is incorrect in the Shifted series operator on a series of surfaces.
BUGS-8337	B	The Source view can show incorrect results in the Sort spectra operator on CITS cubes.
BUGS-8344	B	The creation and renaming of a new folder can take a very long time when saving a document containing an opened Image colorization study.
BUGS-8352	B	The Circular contour included/excluded area in the Level operator on surfaces is not metrically circular if the X and Y size of the surface are different.
BUGS-8362	B	Points coordinates are not updated in the Advanced Contour Analysis study if the origin of the study has been changed or an alignment has been performed.
BUGS-8387	B	Calculations of the VDA2007 profile parameters are impossible on series of profiles if the default upper and lower limits are used.
BUGS-8395	B	Arcs of Ellipses and Circles cannot be auto-connected correctly in the Advanced Contour Analysis study.
BUGS-8414	B	The results of Sbi, Sci and Svi surface parameter calculations are incorrect for surfaces containing non-measured points.
BUGS-8416	B	The area taken into account in the Extract area operator using the circular snake can be misaligned and integrate some points that should not be integrated.

January 25th 2018

Version 7.4.8425

New features

Free Trial version now available for 3 days min.	The initial Free trial period for testing the software has been prolonged and is now 72 hours instead of 24 hours.
Updated Reference guide files (FR, DE & JP)	The included Reference guide contains updated files in French, German and Japanese languages. (NB : A full new installation is needed to update the Reference guide. Easy updates do not take these files into account.)
New Arc of Ellipse object in Advanced Contour study	A new object, the arc of an ellipse, can be created in the Advanced Contour analysis study in 3 ways: from the profile, from points or from discontinuous parts of the profile. Almost all of the functions and dimensions available for arcs of a circle are available for an Arc of Ellipse, including: Creation of a best fit ellipse; Ellipse diameter; Deviation between ellipse and profile; the profile residue and associated parameters (Pp, Pt, Pv...); Intersection points with a segment, an arc, a circle, or another arc of ellipse element; Creation of outermost points (top, bottom, furthest to the left/right); Gothic Arch calculations; Import/export of ellipse element in DXF format; DXF fitting and multi-fitting; Circle in contact with an ellipse.
New Sort spectra and Clean up spectra operators for Spectrum studiabiles	New operators, Sort spectra and Clean up spectra have been added to Series of spectra and Hyperspectral cube studiabiles. They allow the removal of excluded spectra. The Sort spectra operator allows the decomposition of series or of hyperspectral cubes in two groups of spectra: included spectra and excluded spectra. The Clean up spectra operator allows the removal of excluded spectra.
New Extract component operator available for CITS spectra	A new operator, Extract component, has been added for CITS spectra and CITS cube studiabiles.
Optimized results in Stereoscopic reconstruction operator	The Stereoscopic reconstruction operator for SEM images has been optimized for even better results, especially in point-matching and for images containing sharp edges.
New Amplification button in Summary of last operator	An Amplification button has been added to the Summary of last operator study in 3D view on Extract area and Extract profile operators on surfaces, allowing the user to specify an amplification or to show in an X,Y,Z normalized view.
Augmented resolution for optimization in 3D Preferences	The General preferences for 3D rendering optimization has been upgraded. What before was medium resolution is now low resolution. The new high resolution is double that of before. It now also applies to 3D view in operator dialogs.
Resolution settings in the 3D preview	The user can now enhance the 3D preview in an operator dialog by right-clicking in the preview of the operator and changing the resolution manually.
New keyboard shortcuts added	New keyboard shortcuts have been added. It is now possible to Save to PDF (CTRL+ALT+P) and to Export numerical results (CTRL+E) in this way.
Improved parameter calculations with Double Gaussian filter for studiabiles containing non-measured points	Calculation of parameters for ISO 13565 on profiles, and functional parameters on stratified surface of ISO 15178 and ISO 25178 has been improved when using the Double Gaussian filter in case the studiable contains non measured points
The application name has been shortened	The application name no longer contains the type of installation for the 64 bit installation, making the icon and file menu entries easier to read.

Bug corrections (A and B type)

#	Type	Bug Description
BUGS-8240	A	A crash can be observed on start-up in certain cases where a Cloud-based drive is present on the computer.
BUGS-8218	A	Export of numerical results to the same row of a .csv file in the Export results study is no longer possible via the File menu or Results manager.
BUGS-8250	A	The software sometimes crashes in the Scatter plot study on series of profiles or surfaces or in Statistical documents.
BUGS-8127	B	The Minimum zone method in the Level operator for profiles can be erroneous if the profiles, or series of profiles, contain non-measured points. This is especially visible when the non-measured points are large areas at the ends of the profiles.
BUGS-7979	B	The Management of end-effect filtering preference is not taken into account in the Filtered profile study and in the Standard filter operator for Double-gaussian filter.
BUGS-8032	B	A surface saved and reloaded in .stl format shows only non-measured points if the saved studiable contains some non-measured points.
BUGS-8274	B	Negative values of a Spectrum curve are shown in the Logarithmic scale view as absolute values instead of as non-measured points.
BUGS-8099	B	Incorrect values may be seen in the Remove form (circular or spherical methods), Morphological filter or Tip deconvolution operators in certain very specific cases containing a very large number of points in the Z axis.
BUGS-8100	B	The regression line is badly displayed in the Fractal analysis study when using the Zoom in the Enclosing boxes method.
BUGS-8176	B	The Scatter plot study of a Statistical document is shown empty when all of the values are identical.
BUGS-8260	B	The software might crash, or the frame might be shown empty, in the Scatter plot study on a series of profiles when there is another Scatter plot study in the document.
BUGS-8170	B	Dynamic populations are not updated in a statistical document if extra studiabes are later added to the dynamic population's source folder and if the statistics document was opened by double click in the Windows explorer.
BUGS-8256	B	All calculated parameters are automatically selected in the Tolerance limit management on residues in the Advanced contour study on profiles.

November 2nd 2017

Version 7.4.8341

New features

Tolerance values on dimensions in Contour	It is now possible to show tolerance limits on dimensions in the Contour study.
Mask profile and show only Parameters on residue in Contour	New feature to hide the profile while keeping the Parameter values visible on residues in the Contour study.
Enhance ergonomics of parameters on multiple residues in Contour	In the Contour study, it is now possible to change the parameters on several residues at a time.
Enhanced access for Force volume and Hyperspectral studiabes in ActiveX	It is now possible to ask for the measurement parameters of Force volume studiabes and of hyperspectral cubes contained in the Identity card when using ActiveX.

Bug corrections (A and B type)

#	Type	Bug Description
BUGS-8083	A	Codes are not accepted by the software for adding modules in the USB dongle programmed product.
BUGS-8057	B	The loading time of a .sur surface is very long if this file contains incorrect description of non-measured points.
BUGS-8050	B	The Minimum zone method of leveling profiles gives incorrect results on profiles that don't show much height variation along their length.
BUGS-8072	B	Incorrect results may be shown in the Parameters table study when used as an ActiveX application and the quantity of results is changed.
BUGS-8080	B	A user-defined excluded zone is still taken into account in the Level line by line operator on a Multilayer studiable. It is excluded in the preview but not in the generated studiable.

October 4th 2017

Version 7.4.8312

New features

Circumscribed circle element in Contour	It is now possible to create the circumscribed circle of a geometric form in the Contour study.
Bisection of an angle in Contour	New element for bisecting an angle in the Contour study.
Improved automation of Contour study with several studiabes	During automation, if the Contour study uses several studiabes, the identification of the respective studiabes is now based on the studiable number (for document substitution and templates)
Choose on which profile a Built point should be created in Contour	In the Contour study, the user can now select the profile on which (s)he creates a Built point when the study contains several profiles.
Levelling option added for ISO12780 Straightness parameters	A new Levelling method option has been added to the Configuration of 2D Parameters dialog box for the ISO 12780 Straightness parameters.
2D Wavelet functions added to 2D Advanced Surface Texture module	Discreet wavelet filtering operator and Continuous wavelet decomposition study for profiles have been added to the 2D Advanced Surface Texture module.

New Minidocs for surface-type studiabiles	2 new Minidocs have been added for Surface-type studiabiles: Extract area with summary of last operator and Extract profile with summary of last operator.
Coefficient's units added to Summary of last operator	The units of the Coefficient have been added to the Summary of last operator study on Remove form operator for surfaces and profiles.
Show one or all spectra in the Join operator	The contextual toolbar on the upper right side of the preview in the Join operator for Spectra now also allows the user to show just one or all the spectra of the series, enhancing time needed for calculations.
Choose which results to export	Specific results can now be defined before being exported from the File menu, template or a command file, using the Results manager filter dialog.

Bug corrections (A and B type)

#	Type	Bug Description
BUGS-7853	A	The button allowing the user to enter a code to prolong a free trial version of the software is not activated.
BUGS-7936	A	RzJIS and WzJIS parameter calculations are incorrect if the Filtering preference is set to Calculate parameters on all sampling lengths over the profile.
BUGS-7319	B	The incorrect snake might be selected in the Join operator on Hyperspectral cubes when overlapped snakes are included in the preview.
BUGS-7465	B	The y-axis coordinate is incorrect in the Extract spectra operator on a hypercube when using the document as a template.
BUGS-7749	B	An external command won't work if the command file contains Asiatic characters in 2-bit code, whether that be in the name of the file or of the folder.
BUGS-7783	B	The Pt parameter calculation can be incorrect after using the Levelling operator with minimum zone preference in some rare cases.
BUGS-7784	B	A levelling operation is not applied during the calculation of the ISO 12780 straightness parameters if the user sets the Filter setting to Not filtered.
BUGS-7832	B	DXF files generated via the Advanced Contour Analysis module cannot always be loaded into other CAO softwares.
BUGS-7849	B	The Condition editor cannot be used in the Islands study. Conditions are always returned as Invalid.
BUGS-7850	B	The results of RONx and STRx parameters with different filter settings are given as identical in the Parameters table study.
BUGS-7851	B	The color scale is incorrect in the 3D view study of a Series of surfaces. This is also true in the 3D view of the Summary of last operator study on Series of surfaces.
BUGS-7867	B	The results of the Stitching operator are incorrect when using the Manual method and the Best overlap box is unchecked.
BUGS-7882	B	It is not possible to enhance the image layer in the Summary of last operator on a surface+image type studiable when the last operator was Extract profile.
BUGS-7914	B	The y-axis coordinate is incorrect in the dialog box of the Extract spectra operator on a hypercube when the origin (0,0) is set to the bottom left in the preferences.
BUGS-7928	B	The Animated view button remains pressed in the 3D view study when a keyboard shortcut interrupts the flight path and the General preferences are set to the 3-axes system.
BUGS-7930	B	A horizontal intersection line might be drawn vertically with Multi-fit DXF to profile motifs tool in the Advanced Contour analysis study if the study contains a profile and a DXF and the profile has been rotated before being realigned.

July 10th
2017

Version 7.4.8226

New features

Islands can be identified individually	In the Volume of Islands study, it is now possible to identify a specific island by number
Improved interface for DXF Fitting in Advanced Contour Analysis	The different DXF alignment methods are now merged into one single dialog.
Enhanced DXF Multi-fit in Advanced Contour Analysis	In Multi-fit process, it is now possible to use construction points to define the area to fit a DXF to.
New method of fitting DXF in Advanced Contour Analysis	The DXF can now be fitted on the profile (it was already possible to fit the profile on the DXF). The user can choose to keep the DXF to its original position and copy the aligned one.
Generation of the modified profile to the workflow from Advanced Contour Analysis	You can now generate a profile from the Advanced Contour Analysis that has been modified (rotated, origin altered etc.) as a new profile to the Analysis workflow
Profile choice for intersection points in the Advanced Contour Analysis	When a segment crosses more than one profile studiable in the Advanced Contour Analysis, you can now choose on which profile studiable to create intersection points between segment and profile.
Import Hyperspectral data in ASCII	It is now possible to import Hyperspectral data from ASCII format.

Bug corrections (A and B type)

#	Type	Bug Description
BUGS-7673	A	The Matlab operator does not work on a series of Profiles.
BUGS-7732	A	The software crashes in the Extract slices operator on a hypercube when the operator is recalled, the left-side position is changed and validated, and then the procedure is repeated.
BUGS-7748	A	An error message is shown when closing the software using "Quit" from an external command.
BUGS-7820	A	The software crashes during automation (Minidoc, substitution, template) if the Add/remove profiles (or spectra) operator is used and the new series contains fewer elements.
BUGS-7831	A	The results of the Filter using Karhunen-Loève transform operator on a series of surfaces can be slightly incorrect.
BUGS-7848	A	The results of RONx parameters on Profiles and Series of Profiles are incorrect in the Parameters table study when calculated without application of a filter.
BUGS-7599	B	The Automatic mode doesn't remove the manually placed reference points in the Shift surface operator on a series of surfaces if the Manual mode was selected previously.
BUGS-7743	B	The units of the vertical shift of the Subtract profile operator are incorrect in the Results manager.
BUGS-7768	B	The High Pass/Low Pass operator button is usable via right click in the analysis workflow and via the Customize operators ribbon when it is not available via the Operators ribbon.
BUGS-7793	B	The element names are not updated when the Build a series operator is recalled and the order of the elements is changed.

BUGS-7823	B	Cancel button does not have the expected effect when recalling the operator to add/ remove an element. Recalling the operator a second time, the element remains added/removed.
BUGS-7830	B	The software takes far too long to show the results of 2D parameters when all of the available parameters are selected.
BUGS-7832	B	DXF files generated via the Advanced Contour Analysis module cannot always be loaded into other CAO softwares.

May 9th 2017

Version 7.4.8164

New features

Improved 4-quadrant reconstruction	The Quad image reconstruction operator now gives better results when the edges of the images are not on a flat zone.
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Bug corrections (A and B type)

#	Type	Bug Description
BUGS-7708	A	The software might crash in the Level operator if the Plane defined by 3 points method is selected with By rotation operation and the studiable contains a non-metric axis.
BUGS-7722	A	The software can crash in a Table of results study if the user clicks on the study and moves it in the document in a certain specific case.
BUGS-7656	B	The watershed lines and peak/pit symbols are not displayed when using the Generate as dynamic image option of Export frame as image in the Motifs study.
BUGS-7659	B	The result of the Scale the Image operator has incorrect X Y length ratio if the original image has different spacing on these axes.
BUGS-7665	B	The results of the Remove form operator on a surface can be incorrect in rare cases where the shape of the form to be removed is very similar to that of the excluded zones.
BUGS-7667	B	Invalid points marked "Nota number" (NaN) in a text file format are loaded as having a value of zero. They should be ignored during loading of the studiable.
BUGS-7675	B	The 3D preview is not always correctly updated in the Export dialog box for the 3MF file format.
BUGS-7688	B	The Condition editor button is grayed out in the Volume of Islands study on a surface.
BUGS-7693	B	A .csv file cannot be loaded if the height values are between "quotation marks".
BUGS-7703	B	The Tolerance limit study on a result generated by an operator is not updated when the operator is updated.

BUGS-7717	B	The Table of results study on a result generated by an operator is not updated if the operator is recalled and conditions are modified.
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March 20th 2017

Version 7.4.8114

New features

Enhanced image preview in operator dialogs	A new button for optimising luminosity and contrast has been added to operator dialogs on Images, Surface+images and Series of images studiable types.
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#	Type	Bug Description
BUGS-6545	A	The software may crash intermittently when using documents containing the "Normalize Force Curves" operator
BUGS-7568	A	The results of FLTx parameters in the Parameters table study may be incorrect in certain cases depending on the settings used.
BUGS-7481	A	The software may crash in a Hyperspectral cube when the view is changed to the Flattened view if the cube is very large.
BUGS-7505	A	A network dongle is not detected if the computer has already had a Free trial version of the software installed. This is still true when the Free trial version has expired.
BUGS-7596	A	The software might crash in the Level line by line operator when the direction to level is changed to Column by column.
BUGS-7531	B	The Levelling method for documents created in V7.3 is incorrect when they are opened in V7.4 if the Minimum zone method is chosen in the original document.
BUGS-7554	B	The X,Y coordinates can be incorrect in a Colocalization study if an offset is present in the source studiables.
BUGS-7553	B	The Y-axis orientation shouldn't follow the preferences in the Continuous wavelet decomposition study. Erroneous results can be observed.
BUGS-7566	B	The Activate button of a Free trial version is no longer active once a 30-day trial period has expired.
BUGS-7515	B	The Free trial version may not start in some cases when there is an error during the creation of the temporary licence key.
BUGS-7567	B	The Extract area operator on a parametric profile may be incorrect when Invert the extraction is requested in a specific case.

BUGS-7581	B	The Support package generated from the Help tab no longer contains the Diagnostic files.
BUGS-6524	B	The content of Parameter map and Force curve analysis study is not synchronized between studies if an analysis study was created from copy-paste of another study

February 10th 2017

Version 7.4.8076

New features

Generate aligned profile with Subtract Profile operator	It is now possible to generate the profile aligned thanks to the alignment method included in the Subtract Profile operator. This is particularly useful for profile comparison (ie before/after).
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#	Type	Bug Description
BUGS-6535	A	The software sometimes crashes in a Force curve study when the user opens a document or changes the settings.
BUGS-6545	A	The software may crash intermittently when using documents containing the "Normalize Force Curves" operator
BUGS-7096	A	The FLTt, FLTp, FLTp, FLTq parameters show slight discrepancy if a levelling method has been selected in the parameter configuration.
BUGS-7470	A	The software might crash in the Patching operator on Surface+image studiabes if the studiabe contains an Intensity layer.
BUGS-7511	A	The User can't change the background page from the Change button of the Edit tab. The frames appear empty, only the outlines are displayed.
BUGS-7539	A	The software crashes in a specific case in a Force curves analysis study when the Automatic detection of protein unfolding events is chosen and the Show WLC model is requested.
BUGS-6883	B	The software displays many error messages if a .mnt document located on the network is opened, and if the PC wakes up from standby.
BUGS-7008	B	It is impossible to select "Automatic detection of a single event" in a Force curve analysis study (on a Series of force curves or a Force-volume), if a normalization operator has been applied before and if some curves were out of limits for normalization.
BUGS-7441	B	The Patching operator on Surfaces can be validated even if the list of used studiabes has been emptied.
BUGS-7446	B	Cursors are not shown in a Parameters map study on Force volumes when the frame is duplicated using Copy-Paste. The Zoom level is also lost.

BUGS-7447	B	The Stop button doesn't function in the 3D view study when Contour lines are being calculated.
BUGS-7469	B	The offset modifications are not taken into account in the Patching operator on a Surface+image study, either when using the mouse or with the manual edit field. They are only shown once the dialogue has been validated.
BUGS-7475	B	The software can be very slow to open a document stored on a network, especially if the network is slow.
BUGS-7477	B	A study exported in .3MF format is inversed in the y-axis.
BUGS-7480	B	The c1/c2 cursors cannot be changed in the Abbott-Firestone curve, either by using the mouse or by entering a value when in Interactive mode.
BUGS-7482	B	Presence of modules in the configuration is not taken into account in the Free trial version or with demonstration dongles on the fly (Access via the Help menu). The software must be restarted to take changes into account

January 16th 2017

Version 7.4.8051

New features

Easy zoom in Surfaces and Images	You can directly zoom in the Surfaces studies using the mouse wheel in order to visualize details, and use the middle mouse button to move. You can also directly define a rectangular zone to zoom in. This zoom is also available in full screen mode. (Available for all studies that display the study points on Surfaces, Series of surfaces, Surface-Image, Multilayer, Image, Series of images and Binary Image studies, plus Frequency spectrum but excepting Grid view).
Easy zoom in Profiles	You can directly zoom in the profiles studies to change only the Z amplitude, or keeping proportion. (With the mouse wheel and Shift or Ctrl+Shift keys). You can also directly define a rectangular zone to zoom in. (Available for all studies that display the profile points on Profiles and Series of profiles, plus Continuous wavelet decomposition).
Contour lines in 3d View	You can now display contour lines in the 3D view study on Surfaces.
Slice view of all surfaces of Series of surfaces	Series of surfaces can now be displayed simultaneously in slices in the 4D view study of Series of surfaces.
Extra 3D printing file format	Exporting Surface and Surface+image type studies is now also possible in 3MF format.
Result picker in operators	In some operators, you can use a numerical result as an input value in editable fields (Threshold on Profiles, Surfaces and Spectra; Standard filter (Roughness) on Profiles, Surfaces, Surface+image, and multilayer; Microroughness filter on Profiles and Series of profiles; Extract area on Profiles and Series of profiles)

Simpler contextual menu of color scale	When the user right clicks on the color scale of a study, the contextual menu only displays entries related to the color scale.
Reset enhancement	In the Enhancement dialog of studies, the Reset button now allows the user to come back to default settings (contrast, intensity, etc...).
Automatic X/Y position in Patching	The Patching operator is now able to automatically find the best X/Y overlap.
Patching extended to Surface-Image studiable type	The Patching operator is also available on Surface-Image studiables. (Patching based on topography).
Stitching enhancements	The stitching operator is faster and more precise.
New method for shifting	In the Shift surfaces (and the Shift Images) operator, each surface can now be shifted with respect to the previous surface. No more reference surface is needed.
New Single image reconstruction operator	This new operator allows the user to reconstruct a topographic shape from a single SEM image under specific conditions.
New WD filtered profile study	The new WD filtered profile study allows the user to visualize the profiles calculated according to the VDA2007 standard.
Enhanced visualization in Volume of a Hole study	The position of the holes and peaks are now displayed in color with transparency effect. The calculation is immediate when the user changes the zone.
New Stdi parameter	New Stdi parameter in the Parameters table study on Surfaces, Series of surfaces, Surface-Image, Multilayer.
New Rpk* and Rvk* parameters	New Rpk* and Rvk* parameters in Rk parameters study. Slight interface enhancements (curve thickness, arrows, spacings).
Reviewed criteria in VDA2007 standard	The criteria for detecting the absence of Dominant waviness in the VDA2007 standard have been reviewed and enhanced.
Perspective in Colocalization	In the Colocalisation study, it is now possible to superimpose surfaces or images that originally have distorted perspectives.
Logarithmic mode in PSD	The PSD study can be displayed using a logarithmic axis.
Enhanced Filter spectrum preview	In the Filter Spectrum operator, the mouse wheel allows the user to zoom in the preview. The user can now edit the points that define the portion zone.
Slight interface improvement in Correct lines operator	A slider has been added in the preview dialog of the Correct line operator on Surfaces.
Slight interface improvement in interactive Abbott curve	Arrows have been added in interactive mode of the Abbott curve on Surfaces.
Axis edition extended to Series of Images studiable type	The Axis edition operator is also available on Series of Images studiable type.
Improved Matlab operator	In the Matlab operator, more variables are displayed and the operator has access to more values (eg: name, date, unit, etc...)
Enhanced and powerful Subtract profiles operator	The Subtract profiles operator has been completely redesigned to allow more automation and to enhance ergonomics. In automatic detection, you can now define exclusion areas. A manual rotation can be performed in the preview using the mouse. The rotation is now calculated with geometric rotation (subtraction kept for compatibility). Vertical shift (Using current offset, automatic, or custom) has been added. The overlap zone preview is bigger.
Legend on Series of profiles (and Spectra)	You can identify profiles in a Series of profiles using a Legend. This legend can display all profiles or only customized ones. You can place the Legend anywhere on the graph. This Legend can be added to the Profile curves study on Series of profiles, and to Spectrum analysis and Normalized view on Spectra and Hyperspectral cubes.
Extraction of average profile	In the Extract profile operator, it is now possible to extract a profile averaged across a band of a user-defined width. (It is available for Surfaces, Surface-Images, Series of surfaces and Multilayer studiable types.)
Series of profiles with X offsets	It is now possible to create a Series of profiles keeping their respective positions thanks to the X offset.
Points coordinates in Contour	It is now possible to display the points coordinates in the Contour study. These coordinates are included in the Result manager (for Tolerance limit, export, Result picker, etc...)

Index point from last point in Contour	It is now possible to create an index point counted from the last point of the profile. (This is useful for built points creation and origin modification for automation.)
Dynamic update of index point in Contour	The position of the index point displayed on the profile is immediately updated when the user changes the index value in the edit field.
Grid color change in Contour	It is now possible to change the grid color in the Contour study.
Top and right axis display in Contour	The Axis graduations can be duplicated at the top and on the right of the Contour study.
Significant digits in Tolerance limits of Contour	The Tolerance Limits now takes into account the number of significant digits set in the Contour study.
New Join operator on Hyperspectral cubes	This new operator allows the user to join two Hyperspectral cubes that were measured at the same place but at two different wavelength ranges.
New Resample operator on Hyperspectral cube	This new operator allows the user to resample a Hyperspectral cube along the X and Y axis, for example to average the spectra.
Extract spectra from Band view	It is now possible to extract spectra from Band view study on Hyperspectral cubes. Each spectrum position can be dynamically changed in the Band view study.
Extract band images from Band view study	It is now possible to extract the image of each band from Band view study on Hyperspectral cubes. The images are updated when the user changes the band.
Center parameter in Band view	The user can now define a band using center and width value in the Band view study on Hyperspectral cube.
Display fitting equation in Spectrum analysis	In addition to the coefficients, you can now display the equation of the model (Gauss, Lorentz, Pseudo-Voigt) in the Spectrum analysis study on Spectra and Hyperspectral cubes.
Linear axis after Extract spectra	The result of the Extract spectra operator is a series of spectra that now includes a linear T axis if the extraction is made along a line.
New Normalized view study	New Normalized view study on Spectra and Hyperspectral cubes. (This view was previously partially included in Spectrum analysis study.)
New Stacked view study	New Stacked view study on Spectra and Hyperspectral cubes. (This view was previously partially included in Spectrum analysis study.)
New Strips view study	New Strips view study on Spectra and Hyperspectral cubes. (This view was previously partially included in Spectrum analysis study.)
Improvements in Strips view	You can now use a logarithmic scale, display a color scale, enhance the image and hide numbers in the Strips view study on Spectra and Hyperspectral cubes.
Easier workflow navigation	The Analysis workflow panel scrolls to the study that is selected in the document, making it easier to understand the position of the study in the workflow. (This scrolling also occurs after the selection of the result of a study in the Result manager panel.)
Hide studies keeping numerical results	Any study can now be hidden in the document. It is still displayed in the Analysis workflow, and its results can still be used (In Tolerance limits, Result picker, Result table or export)
More powerful Text block	In the Text block illustration, you can now write subscripts and exponents, as well as symbols (ie : Greek letters). The text orientation can be changed to vertical.
Delete empty pages more rapidly	Delete all empty pages from the contextual menu of the document.
Faster page background construction	It is now possible to apply a Minidoc (without studiabile) in Page background mode.
Improved copy-functions in 3D view	A 3D view study can now be pasted into Microsoft Office tools and the background removed easily.
The Free Trial version is more simple to install	The installation file is lighter and quicker to download. The installation code is displayed by default. There are less installation dialogs to validate. (Note that the Reference guide is now only partially available in the Free Trial version.)
Highlighted Video tutorials	Links to video tutorials available on the web are included in the Welcome dialog and from the Help menu.

#	Type	Bug Description
BUGS-6545	A	The software may crash intermittently when using documents containing the "Normalize Force Curves" operator
BUGS-6720	A	Mountains can sometimes freeze after closing a document if the OS is Windows 10 with Microsoft Office 2010 theme.
BUGS-6798	A	The Spline filter studiable results on profiles and surfaces in the Standard filter operator do not benefit from improvements made to the Spline filter of the Parameters table study.
BUGS-6931	A	The software crashes in the 3D preview of the Patching operator if the surfaces are very far apart.
BUGS-7329	A	The software freezes if a small Tif file is loaded.
BUGS-7417	A	The calculated results of some parameters in a results table study might be slightly incorrect if the roughness surface Spline filter is used for calculation of the parameters.
BUGS-7443	A	The software crashes in the Patching operator when the operator is recalled if the Compute X/Y-offsets according to the best overlap box is checked and the size of the neighborhood searching window is modified.
BUGS-6662	A	The results of the Rk parameters study on an Abbott curve of a profile are incorrectly calculated.
BUGS-	A	The Save as PDF sometimes does not take all parts of the document into account or displays certain frames as a block color. This correction only applies to the Win10 Operating system.
BUGS-6744	B	Print as PDF and Save as PDF functions don't work or take a very long time if the document contains a study with a large number of profile curves displayed.
BUGS-6796	B	The precision of filters for profiles and surfaces having a small number of cut off points needs improvement.
BUGS-6797	B	The 2CR and 2CR-PC filter settings should not be available for the Parameters table study for surfaces in the configuration dialog box.
BUGS-6845	B	The waviness parameter calculations on surfaces and profiles might be slightly imprecise if the waviness amplitude is small.
BUGS-6946	B	The dynamic population function cannot be used in a statistical document if one of the studiable names contains a non-Unicode character (eg. Asian language character).
BUGS-6958	B	The Upper limit of the VDA2007 standard for profiles is not updated in the Parameters table study when the profile is substituted.
BUGS-7004	B	The Z-axis scale of the Texture layer in the 3D view of a Multilayer studiable cannot be shown with Absolute values. Minimum and maximum values cannot be shown either.
BUGS-7006	B	The Show only out of limits curves box in the Normalize force curves operator of a Force volume study does not allow the user to view successive out of limits curves.
BUGS-7017	B	The Suggest function gives different results in the Shift surfaces operator when the button is clicked several times.
BUGS-7067	B	The document loaded is completely empty if there is an error during the application of an operator while loading the document. The user should be able to use the information not concerned by this operator.
BUGS-7077	B	The results of 2D Primary and Roughness Peak parameter calculations of ISO 4287 are not correct in the Parameters table study on profiles if certain unit preferences are chosen.
BUGS-7087	B	Some .dat files may not be correctly loaded.
BUGS-7096	B	The FLTt, FLTp, FLTq parameters show slight discrepancy if a levelling method has been selected in the parameter configuration.
BUGS-7099	B	The profile curve may be incorrectly drawn in the Advanced Contour Analysis module when a large zoom is requested.

BUGS-7107	B	The Advanced Contour study opens in full screen then closes immediately if the automatic full screen mode is activated and the study is selected via the Analysis workflow.
BUGS-7109	B	The position of the extracted profile on a surface is not remembered by the Extract profile operator if the outline is set to N-S with mm units and the surface is substituted by a surface of a different size.
BUGS-7124	B	The position of the origin of the X,Y axes may be altered in the Extract profile operator when the document is applied as a template on a document containing a different surface.
BUGS-7140	B	The Calculation of a Deviation of a profile against its DXF is incorrect in the Advanced Contour Analysis in some specific conditions.
BUGS-7142	B	The metric unit pruning criterion value is not taken into account in the Motifs study during the substitution of a surface. The Percentage is always preferred.
BUGS-7173	B	The selected area outline is not always saved in the Extract slice operator for spectra and hypercubes. When the operator is recalled, the selected area may be different.
BUGS-7309	B	The Filter settings of a Single motif sometimes alter which motif is selected in the Motifs study.
BUGS-7426	B	The position of the outline is not remembered in the Extract area operator for surfaces if the units are set to Metric and the document is applied as a template to another document.
BUGS-7436	B	The Extract profile operator on a surface does not remember Points unit selection when the document is substituted.
BUGS-7439	B	2D profiles cannot be loaded from .map files in some 2D products.

November 10th 2016

Version 7.3.7984

New features

Tolerance information in Statistical summaries of statistical documents .	Tolerance definitions and Pass/Fail results have been added in the Statistical summary when using statistical documents.
Tolerance limits for statistical results .	It is now possible to follow statistical results (Mean, Standard deviation, Yield, etc.) using tolerance limits in Statistical documents.
Axis size in Export studiable as image.	The X,Y axis dimensions of the image generated by the Export studiable as image function are now kept in the majority of image formats.
Extract profile based on intensity in a Surface-Image studiable.	A profile can now be extracted through the highest or lowest point of intensity in a Surface-Image type studiable.
Improved DXF alignment in Advanced Contour Analysis .	The user can now select align profile areas on a DXF subset using manual positioning in order to ignore parts of the profile in Advanced Contour Analysis .
New parameter in Advanced Contour Analysis .	A new parameter Pt(PF) has been added to Deviations and Residues in the Advanced Contour Analysis to conform with ISO 1101.

ISO 1101, new deviation Tolerance asymmetry in Advanced Contour Analysis.	The Tolerance band now includes an offset (Tolerance Asymmetry) for deviations in the Advanced Contour Analysis to conform with ISO 1101.
Deviations and residues calculated between 2 points in Advanced Contour Analysis.	Users may now create residues and deviations between 2 points on profile elements, or between a profile and a DXF, in the Advanced Contour Analysis.

#	Type	Bug Description
BUGS-6949	A	The software freezes in the Advanced Contour study if the profile is retouched using non-measured points after aligning a segment to the horizontal.
BUGS-7032	A	The software freezes when trying to load a hyperspectral cube studiable in .spc file format if the data is stored as integers.
BUGS-7000	A	The software can take a long time to open if the user has recently used a text-file studiable containing a Cloud of points and if the Welcome dialog box is set to be Shown on start-up.
BUGS-6927	A	The software crashes when using the Volume of a hole study applied on a particular studiable.
BUGS-7062	A	The software crashes in the Print preview if this screen is closed using the Close Window button rather than the Close preview button.
BUGS-6847	B	The surface position and colors can be incorrect at the creation of the 4D view study if the Z axis is set to show absolute values.
BUGS-6965	B	The retouched area of a profile aligned with a DXF is not correctly shown in the Advanced contour analysis study.
BUGS-6975	B	The software might not open as an ActiveX control function after an original, initial installation of the software due to incoherences in the order of installation of the .dlls.
BUGS-6943	B	Surface-Image studiabiles in .FRT format can not be loaded into Mountains Scanning-type platforms.
BUGS-6962	B	The Filter settings button disappears in the Parameter configuration dialog box when the 3D flatness parameters in the ISO 12781 standard are set to Not filtered and then validated.
BUGS-7006	B	The "Show only out of limits curves" box in the Normalize force curves operator of a Force volume study does not have the desired effect.
BUGS-6935	B	Spectra are not displayed correctly in the Normalized view of the curves in a Spectrum analysis study.

August 22nd 2016

Version 7.3.7904

New features

Leveling configuration in the ISO 12781 flatness parameters	The user can now perform the Leveling directly in the Flatness parameter configuration dialog without using a Leveling operator beforehand (for ISO12781 FTLt, FLTp, FLTv and FLTq).
Automatic dominant peak detection added in the Averaged power density spectrum study	A new cursor in the Averaged power density spectrum study now always finds the dominant peak in the profile or surface under view.
Improved calibration and form removal in the 4 Quadrants reconstruction operator	It is now possible to modulate the Z calibration by using the images gray levels. New form removal possibilities have been added.
ActiveX: user-defined unit results	When using MountainsMap as an Active-X, the software that embeds MountainsMap can now get the numerical results in a user defined unit.

#	Type	Bug Description
BUGS-6854	A	The offsets in the XY axes are incorrect in the Extract area operator results of Hyperspectral cubes.
BUGS-6859	A	The offsets in the XY axes are incorrect in the result of the Extract area operator of Force curves.
BUGS-6801	B	The calculation method of the diameters should be improved for parameters on binary images, especially if the shape of the grain is not compact (it has an impact on the values of Mean, Min and max diameter, min and max diameter angle, Aspect ratio, roundness and compactness).
BUGS-6811	B	Retouched areas in the Contour study are not at the user-defined location after the profile has been aligned with the DXF.
BUGS-6825	B	The R&W parameters of ISO 12085 in the Parameters table of a profile do not follow the user-defined filter preference of limits.
BUGS-6833	B	The software may crash when using the Leveling operator if the method of Leveling is changed by using the keyboard arrows.
BUGS-6852	B	The Z-axis range may be incorrectly shown in the Normalized view of a Spectrum analysis.
BUGS-6853	B	When reopening a document, the Scale orientation in the setting for the Z axis is displayed as Full scale in a Hyperspectral cube view even if the user has previously set the Z-axis to Imposed scale.
BUGS-6855	B	Studiabes generated by operators should not be used by the Stitch operator when the "Always use all compatible studiabes (loaded from disk) loaded in the document" box is checked.
BUGS-6890	B	The resulting studiabile of a Stitching operator on a Surface+Image type studiabile is empty and the operator cannot be recalled when a template containing a Stiching operator on surfaces is applied to Surface+images.

New features

Edit axis operator extended on Series of images	It is now possible to Edit the axis on a Series of images studiable type.
Improved troubleshooting for trial version.	When using the trial version, if the software drivers are not correctly installed, a link to a troubleshooting document is now displayed in the error dialog.

#	Type	Bug Description
BUGS-6672	A	The software may crash whilst loading certain .czi files.
BUGS-6689	A	The software crashes when using the Quad image reconstruction operator if the Optimize for steep slopes method is selected and the Suggest button is pressed, and if the image size of the X,Y axes (in pixels) is different.
BUGS-6691	A	The software crashes in the Quad image reconstruction operator if the Optimize for steep slopes method is selected and the Scale the image indicator is set for just a few pixels.
BUGS-6727	A	The software crashes in the Table of results of a Circular Analysis of an Advanced Contour study if Results in one row is requested.
BUGS-6728	A	The software crashes when using the Contour study with the deviation shown on a circle created from profile if the user tries to select the entire circular portion of the profile.
BUGS-6766	A	Occasionally the parameters R, Rx, Rt, W, Wx, Wte are adjusted by a factor of 1000 in the Parameters study if the Adjust spacing to 4µm box in the ISO 12085 Filtering preferences is checked.
BUGS-6826	A	Anomalies detected at the edges of the profiles or of the surfaces generated by the Standard filter operator if the Spline filter is requested.
BUGS-6827	A	Axis sizes of the surface generated by the Edit axis operator is dependent on the user-defined Preferred units in the Preferences.
BUGS-6679	B	Mountains will sometimes not open with a revalidated loan dongle if the validation period had expired before the cut-off date.
BUGS-6680	B	The Minimum zone method is not applied in the Level operator on Surface-images, Series of surfaces, and Multilayer studiable types. (Least square method is used instead).
BUGS-6685	B	The Z absolute values are not correctly calculated in the surface generated by the Level operator if the Minimum zone method is selected and if the "Set the Z-axis origin as the mean of the included zones" check box is checked.
BUGS-6694	B	Excluded zones are not taken into account in the Level operator on surfaces if the Levelling method is set to Minimum zone and the surface contains Non measured points.
BUGS-6696	B	The Mean line is not displayed at the correct height and the numerical results are false in the Area of a Hole study on a profile if there are a lot of digits in the Z axis.
BUGS-6714	B	The Histogram is either not shown or is incorrect in the Peak count distribution study on a surface.
BUGS-6722	B	It is possible to select inappropriate filters (2RC and 2RC-PC) for the Wk/Rk/Sk and Rmq/Rvq/Rpq parameters in the Parameters study on a profile.

BUGS-6731	B	The User cannot always apply an Operator if he has tried to open a document by Drag and Drop and if this document is already opened.
BUGS-6747	B	The exported image is incorrectly displayed if a 3D view study of a surface is exported using the Export Frame as Image button of the ribbon.
BUGS-6748	B	The Stitching operator can't be applied if there is a very slight difference in the sizes of the x or y spacing.
BUGS-6758	B	Pvo value given is incorrect in the Parameter study of a profile.
BUGS-6799	B	Absolute values in the X and Z axes are lost during the export of a profile in .PRF format.
BUGS-6824	B	Error message can appear during the installation of the software if the Visual Studios redistributable package on the PC is more recent than the one installed by Mountains.

March 17th 2016

Version 7.3.7746

New features

New 'Minimum zone' method for the Levelling operator	You can now choose to level the surface with 'Minimum zone' method so that the levelled surface has the minimum Sz. Available in the Level operator for Surface, Series of surfaces, Surface-image and Multilayer studiabiles.
New alignment on DXF subset in the Contour Study	It is possible to align a profile with only a subset of the DXF elements, in the Advanced contour study for Profiles and Parametric profiles.
Stereoscopic reconstruction for a Series of 2 images	The Stereoscopic reconstruction operator is now available for a Series of two images.
Rmr(Rz/4) parameter : extended configuration	It is possible to choose the reference plane for the Rmr(Rz/4) parameter, like for the Rmr parameter.
Transparency effect on Band view study.	You can now attenuate the band color in the Edit dialog of the Band View study for an Hyperspectral cube studiable.
Reference guide finished in Japanese and French	The description of new functions in 7.3 are now completely translated in Japanese and French in the Reference guide.

#	Type	Bug description
BUGS-6545	A	The software may crash intermittently when using documents containing the "Normalize Force Curves" operator
BUGS-6548	A	Error messages are occasionally displayed during the extraction of a profile in the "Extract profile" operator. Settings need to be reset in order to use the operator in correct conditions.
BUGS-6579	A	The software crashes when the user clicks on the Stop button in the bargraph during the application of the "Resample T-axis" operator.

BUGS -6626	A	The software crashes while saving a series of images if the file name is too long.
BUGS -6426	B	The PG parameter can be false in the Parameters study on profile, if the profile contains non-measured points.
BUGS -6538	B	The new value is not applied to all the curves of the series in the "Calibrate constants" operator available for a "Series of force curves", when the action is "Set User Value" and the "Apply to all curves" box is selected.
BUGS -6547	B	The "Reference" setting in the "Binary Thresholding" operator is not maintained when the user reopens a document.
BUGS -6580	B	In a series of profiles or surfaces, when the "Resample T-axis" operator has been used and the document saved, the next time that the document is opened, this operator is no longer usable
BUGS -6585	B	The length of the Z axis is not maintained in the results studiable of the "Edit Axes" operator applied on a Series of Profiles when the user reopens the document
BUGS -6586	B	The offset of the Z axis is wrongly displayed as 0 in the Original Values of the "Axes Settings" operator dialog when applied on a Series of Profiles.
BUGS -6589	B	The Minidoc can't be used if the minidoc contains studies made directly on the loaded studiable.
BUGS -6597	B	The software is unable to perform the Line by Line Levelling operator on a non-topographical layer of a multi-layer studiable.
BUGS -6615	B	Some Leica file formats could be better interpreted.
BUGS -6617	B	When a studiable is substituted with another studiable, the name of the new s tudiable is not taken into account if the user has asked to rename the first studiable even if the new name was not validated.
BUGS -6619	B	The software is unable to perform the Line by Line Levelling operator on a surface studiable if the Z-axis of the surface is not measured as a distance.
BUGS -6627	B	Values are automatically and wrongly corrected to read the same value in the "define Tolerance Limits" study when entering the upper and lower limits. The limits need to be saved and reopened in order for the value to remain as entered.
BUGS -6642	B	Offset information incorrect in the Edit Axis operator dialog if the preference of the Configuration of the x,y axis is set to 0,0 at the bottom left-hand corner.
BUGS -6661	B	There is a XY distorsion in the video exported from a 3d view study, if the study frame is not square and if the Video export preference is not set to "Output properties: Resolutio: auto"
BUGS -6663	B	The user sometimes can't change the content of the Extract force curve operator applied on a Force-volume when the user recalls the operator by clicking in the icon of the workflow.
BUGS -6674	B	The Z absolute values of the result of a Line levelling operator is incorrect when some areas are excluded: The offset is wrongly calculated with all the source surface points, not ignoring the excluded areas.

January 21th 2016

Version 7.3.7690

New features

New Image colorization study on image	This new study on Image allows you to easily add color to your image, using automatic object detection and manual border creation.
New Sliding profiles operator on profile.	The user can split the profile into several sliding profiles displayed in a Series, in order to monitor the variation of a parameter along the profile or to study its distribution.
New Extract area operator on parametric profile.	It is possible to select a region of interest on a parametric profile and discard the rest of the profile.
Extended list of operators and studies on Surface-images	The Threshold and Multiplane form removal operator, as well as the Slices and Distance measurement studies, are now available for Surface-Image studiable. It is no longer necessary to apply the Extract layer operator first.
Extended Resample operator on images	The Resample operator can be applied for Image and on Series of images studiable, for example to reduce the number of points and thus accelerate post analysis. The Resample Taxis operator can be applied on a Series of images, for example to create an animation between images.
New Map study on force volume	You can display an interactive map of one parameter value from the Force curve analysis study on Force-volume. It allows you for example to visualize the force parameter calculated on each point.
New Extract spectrum operator on Spectrum and hyperspectral cube	You can extract a single spectrum, or the mean spectrum, or the envelope from a Series or from an hyperspectral cube.
New Concatenate Spectra operator on Spectrum and hyperspectral cube	You can assemble several Series of spectra into one Series, or several Hyperspectral cubes into one Hyperspectral cube.
New operators and studies for STS spectrometry	More tools are available for CITS analysis.
Extract profile passing through the highest/lowest surface point	In the Extract Profile operator on Surface, you can choose to position the extracted profile so that it passes through the highest or lowest point of the surface. (also on Multilayer and Surface-Image).
New automatic method for Step Height on surface	In the Step Height study on surface, you can choose the automatic mode : planes are automatically detected from height distribution, and used to calculate step height parameters (also on Multilayer and Surface-Image).
Customize lighting in 3D view.	You can change the position, type and number of lights in the 3D view to enhance a feature or a direction.
Contour study : Improved algorithm for DXF fitting	In the Advanced Contour study on profile and parametric profile, the DXF fitting is smarter, faster, and more efficient.
Contour study : New contact segment	The user can create a segment that is in contact with the profile by the equivalent of gravity.
Contour study : New Multiple build points using parallel segments	In the Contour study on profile and parametric profile, the user can rapidly create intersection points between the profile and regularly spaced segments.
Contour study : New Multiple build points using radial segments	In the Contour study on profile and parametric profile, the user can rapidly create intersection points between the profile and regularly spaced radial segments.
Contour study : Direct modification	In the Contour study, you can directly change the elements (you no longer need to switch to modification mode).
Shifting of series: keep area of reference studiable	In the Shift surfaces operator on Series of surfaces, an option now allows you to select the reference studiable area as the kept area. This facilitates XY positioning on automation. (also on Shift images on Series of images)
Wst parameter	Wst parameter (Maximum absolute height difference of the waviness profile) is available in the Parameters study, on profile and Series of profiles (Mercedes-Benz Engineering Standard MBN 31 007-7 Edition 2009-04)
VDA2007 parameters	WDSm, WDC and WDT parameters (used to characterize the dominant waviness of a surface) are available in the Parameters study, on profile and Series of profiles. (Geometrical Product Specifications (GPS) - VDA-Recommendations, 01 February 2007)

Extended use of the image of a study	A dynamic image of certain studies can be generated in the analysis workflow. This interactive image can then be used for example as texture on 3Dview or for surface-image creation. (available for the default view study and on Pseudo-color view, Photo simulation, Contour lines, Motifs, furrows, Frequency spectrum, Image colorization and Band view on all studiable types except Profile, Spectrum and their series).
Fit mathematical function to create cursor on Spectrum	In the Spectrum analysis study on Spectrum or on Hyperspectral cube, in addition to manual and automatic cursor creation, you can create a cursor by fitting mathematical functions (Gauss, Lorentz, Pseudo-Voigt), and get the corresponding coefficients.
Logarithmic scale for spectrum	Spectrum and Series of spectra can be displayed using a logarithmic scale in the Spectrum analysis study, in order to visualize low intensity values.
Normalized scale for spectrum	Series of spectra can be displayed using a normalized scale in the Spectrum analysis study, in order to compare spectra.
Hide bands on hyperspectral cube	In the Bands view on Hyperspectral cube, you can choose to show or hide the active bands in the current spectrum display.
Creation of compressed .wmv video.	You can choose to create a video (from a 3D animation of a series) using the easy-to-use .wmv format.
Improved graphical scale	It is possible to choose the position and size of the graphical scale, and to change its aspect in all studies (on surface, series of surface, multilayer, surface-images, force-volumes, hyperspectral cubes).
Names given to elements in a series	Elements in a series can be named from the Studiables menu, and the names displayed in the Study. (Series of profiles, of surfaces, of images, Multilayer surface, Series of Spectra)
Style of an element in a 2d series	Different styles (color, line width etc.) can be associated with each element in Series of profiles, spectrum or force curves. A legend can be displayed in the Series of spectra.
Set line thickness in studies	The user can now modify the thickness of line in the R&W(ISO12085) study and in the Morphological envelopes study
Zoom in on 2D display studies	You can now zoom in on all « 2D display-like » using the mouse wheel or the + / - keys. (Profiles, Series of profiles, Spectrum)
Zoom in on 2D display in operators dialog	You can now zoom in on all « 2d display-like » previews in Operator dialogs using the mouse wheel or the + / - keys, and a combination of keys allows you to zoom in only along the X or Z axis or along both axes. (Profiles, Series of profiles, Spectrum)
Application of a template on different file types	You can now apply a template on a folder that contains studiables with different file extensions.
Direct import of ASCII studiable	You can copy ASCII data and paste it directly into the document to create a studiable.
Improved ASCII studiable import dialog	In the dialog displayed when loading a ASCII studiable, a preview of file content is displayed.
Extended ASCII studiable import units	You can choose a wider range of units and custom units for each axis when importing an ASCII studiable.
ASCII import and export for spectrum	You can import and export spectrum in ASCII format. You can export Series of spectra in ASCII format.
Compressed format for saving studiables	You can choose to save .sur and .pro files in a compressed format. This is especially useful for users working with Surface-images and Series of images.
RTF export enhancement	For better compatibility, numerical results in exported RTF files are now displayed as tables and not as images, and styles are kept.
Product validation	The limitation to the functions included in the product by dongle protection has been reinforced in automation context.
Paste as a vector image	It is possible to paste an image keeping its details.
Compatibility with Windows zoom	The displays now completely user friendly when you use Mountains on a small PC screen with 125 or 150% zoom.
Publisher recognised at installation.	The first installation dialog now identifies Digital Surf as a publisher and no longer displays the publisher as unknown.

Version information in Windows explorer	In Windows explorer, you can now see with which Mountains version your documents have been saved.
Extended compatibility with studiable file formats	New or updated file formats can be loaded in Mountains (Zeiss .czi update, SPMLab, Anasys .axz, 3D Shape .ki update, Digital Micrograph .dm3)
Extended ActiveX Control	Third party software that uses Mountains as a component has more available controls on features (see the SDK folder for more detail).

Bug corrections (A and B type)

BUGS-6499	A	The software crashes if the user moves the sliders in the preview dialog of the Calibrate constant operator on Series of force curves during the calculation of the automatic mode.
BUGS-6416	B	The displayed values are in relative coordinate system instead of absolute coordinate system in the Extract slices operator on Hyperspectral cube.
BUGS-6418	B	The mean value can be incorrect in the Step Height study on Series of profiles, for automatic mode and if one or several steps can't be calculated.
BUGS-6426	B	The PG parameter can be false in the Parameters study on profile, if the profile contains non-measured points.
BUGS-6441	B	The Calibrate constants operator on Series of force curve is not applied when the user clicks on OK if the selection cursors are located on non-measured points.
BUGS-6466	B	A study can be eliminated from a document without user notification when the user opens a document and if there is a bug that prevent a study to be displayed.
BUGS-6472	B	The default cut-off value in the ISO4287 family of the Parameters study can be inappropriate (for example too big to be applied).
BUGS-6476	B	The export of the results of the Motifs study on Surface is incorrect if only Open motifs are displayed in Individual results mode.

December 8th 2015

Version 7.2.7646

New features

New command SUBSTITUTE STUDIABLE	It is now possible to substitute a source studiable in the workflow by using a command file.
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Bug corrections (A and B type)

BUGS-6271	A	The software may crash when using the Step Height study on a surface, if the user moves a ring zone towards the surface borders.
BUGS-5770	B	In 3d view on a multilayer studiable, the Axis settings dialog should apply to the vertical axis and not to the texture color and the color scale, if the user set the texture layer different from the topography layer.
BUGS-6066	B	Some studies that depend upon the result of other studies may not be linked under the right study in the workflow analysis. (Tolerance limit or statistical studies on series - Control Chart, Histogram,...)
BUGS-6099	B	The stitching operator gives incorrect results when the user changes the offsets of the source studiable.
BUGS-6115	B	In the Subtract Profile operator, it is not possible to use the automatic detection of the rotation.
BUGS-6127	B	The studiabilities in the Series can be distorted by the Shift surfaces (or images) operator if the X and Y spacing are different.
BUGS-6143	B	In the Motifs study, if a segmentation options is set in μm and not in %, the motifs are not calculated nor displayed anymore.
BUGS-6148	B	The Z offset is incorrect after a Form removal operator on surface or profile, if there are some excluded zones. (the offset is calculated with all points instead of being calculated on included points).
BUGS-6160	B	The X and Y offset are incorrect when the user loads a surface under text format.
BUGS-6177	B	The stitching operator is recalculated when the user adds a studiable in the Workflow analysis, whereas the operator is in manual mode.
BUGS-6181	B	In the Remove form operator, the automatic structure exclusion won't work when using spherical or cylinder form.
BUGS-6296	B	The values displayed are incorrect when the user moves the mouse over a deviation if the unit preference is set to English units.
BUGS-6297	B	When the English unit is set in the preferences, the studies generated by the deviation or the residue of the Contour study are not displayed in English unit.
BUGS-6362	B	The histogram study on studies on series of profiles or surfaces is displayed by default in centered scale, with incorrect z values.
BUGS-6392	A	A "Demonstration dongle expired" dialog is displayed when the user adds a module to his product dongle thanks to a remote reprogrammation code. (This message doesn't prevent the normal use of the dongle).
BUGS-6385	B	The Sr1 and Sr2 names are not displayed on the graph of the Sk parameters study on surface. (equivalent bug for Profile).

September 21st 2015

Version 7.2.7568

Bug corrections (A and B type)

BUGS-5620	A	The export of a document in pdf is very long when this document contains an hyperspectral cube with flatened view.
BUGS-6000	A	The offsets of loaded surfaces are set to 0 when the user re-opens a document containing a Stitching operator with manual mode.
BUGS-6100	A	Some parameters (Smc, Smr, tp, Trc, Xmr) may be incorrect when the surface or the profile contains non-measured points.
BUGS-6083	B	An angle value from the Contour study is always displayed in decimal degree in the Table of results, even if the selected unit is deg min sec.
BUGS-6029	B	Deviations and residues from DXF are not correctly displayed in the contour study when the profile is closed and when the DXF is made of polylines.
BUGS-6084	B	It is not possible to set an upper/lower tolerance in deg min sec for the angles of the Contour study. The entered value is different from the applied value.
BUGS-6101	B	Some operators (retouch, line levelling, Fill-in non-measured points) may give incorrect results if the surface or the profile contains non-measured points.
BUGS-6031	B	Some problem appear on the studiabiles of the document when opening a document created with version 6 and that contains a 3D view on a multilayer, with Custom texture rendering.
BUGS-6059	B	The Sk parameter value may be incorrect if a filter is set and if there are non-measured points in the surface.
BUGS-6024	B	The Wpc parameter (calculated according to the amendment 1 of the standard) is incorrect when it is not possible to calculate Wsm on the profile.
BUGS-6075	B	The duration of the export can be very long if the user exports the individual data of the Motifs study during the application of a template on a folder.
BUGS-5908	B	The image export of the Contour study does not display what is visible on the screen if the export is performed when the study is maximized.
BUGS-6032	B	The position of the histogram along the color scale is incorrect when the z axis is set to Imposed scale.
BUGS-6056	B	The result of the Stereoscopic Reconstruction operator can be empty if the reconstruction quality is set to Quick draft, and if the searching window contains big negative values in the direction of the disparity.
BUGS-6088	B	The software freezes when hovering the mouse over a bottom point of a circle, if the XZ anamorphic display ratio is very big.
BUGS-6085	B	The values in a Table of results can be incorrect (*1000 factor) if the results are displayed "In one row", and if the different results from studies don't have the same unit.
BUGS-5927	B	Two incorrect flat lines are created at the surface edges after the application of a 4 quad reconstruction operator when the method "Optimize texture rendering" is selected.

June 26th 2015

Version 7.2.7481

New features

Known radius spherical form can now be removed	The user can fix a radius in the Form removal operator to remove a circle on Profile or a sphere on Surface.
New material ratio parameter on Profile	The Parameters study on profile calculates the new parameter Rmr(Rz/4).
Xpc in cm ⁻¹	The Ppc, R _{Pc} and W _{Pc} parameters are displayed by default with amendment 1 and in cm ⁻¹ unit. The user can change the setting in the general preference or in the current study.
Negative values in Step Height on profiles.	In the Step height study on Profile or on Series of profiles, a check box in the Settings dialog allows the user to display negative values if the set is below the reference line.
Geometrical forms in the Step Height study on surface	In the Step Height study on Surface, Some geometrical forms (rectangle, circle, ring, ellips) can be used to define the two plane zones.
Visualise uniform zones in Stereoscopic reconstruction operator.	In the Stereoscopic reconstruction operator on two Images, a slider allows the user to visualise and fine tune the uniform zones discarded in the reconstruction.
Direct scale setting for Single image reconstruction	In the Single image reconstruction operator on an Image, the XY scale can be directly set in the operator.
Better zoom on force curves in operators	In the Normalize force curves and in the Calibrate constants operator on a Force curve or a Series of force curves, the zoom in the preview now keeps the XY ratio.
Apply a shift on all the force curves of a Series.	In the Normalize force curves operator on a Series of force curves, the user can apply a manual correction to all elements of the Series.
Better ergonomiy in the Add/remove profiles operator	In the Add/remove profiles operator, the profile previews are closer to the relevant settings.
Support of new .plux Sensofar file format	It is now possible to load a .plux Sensofar file.
New Russian interface	The Interface is now available in Russian language.
More translation in Japanese in the reference guide.	The functions introduced by version 7.2 are now available in Japanese in the reference guide.
Updated and enhanced SDK	The description of ActiveX functions and of Surf format is now complete. Examples for developpers are available on demand.

Bug corrections (A and B type)

5939	A	The R _{Pc} value is 10 times too big if calculated with the amendment 1 setting.
5869	A	The copy-paste function doesn't work anymore with Japanese language setting and after a copy-paste of a text with the Edit menu.
5866	A	The discrimination band setting of the R _{Pc} parameter should not be displayed when it is calculated with admendment1 setting.
5857	A	The software crashes at the studiable substitution in the Contour study, if the contour is made of several profiles, if a levelling was performed on one of the profile and if the user substitute with a studiable that contains no data at the location of the previous levelling.
5914	A	The software crashes in a particular case with the normalization operator on force-curves when selecting Oscillating line.
5952	A	The software may crash when the user imports an ASCII file and selects the degree unit for an axis.
5997	B	It is not possible to erase a .x3p studiable file after it has been loaded in Mountains.
5840	B	An error message can be displayed (error 3010) during installation when a session of Mountains is already open.
5873	B	In the 3d view study, when the z resolution setting is low, the z scale can be incorrect.
5937	B	It is not possible to change the x/y axis settings of surfaces studies in some products.
5936	B	It is not possible to select degree unit in the preference dialog about ASCII file loading.
5841	B	Some .x3p profiles are loaded as parametric profiles whereas they should be loaded as simple profiles.

5862	B	The Algorithm option for the FFT should be set by default to "Use a simple resize operation" and not to "Use a resampling operation", in the Preference/Filtering dialog.
3619	B	The Robust gaussian filter uses a lot of memory when applied on bug surfaces. This can be a problem with 32b OS.
5826	B	The X and Y axis are not recalculated in the Averaged Power Spectrum Density study, when the user changes the settings (zoom, iteration).
5848	B	The non-measured points are not correctly managed in the Remove multi-plane form operator.
5825	B	The selected area is not exactly the invert in the Partition levelling operator if the user inverts the selection.
5913	B	The software becomes very slow when using the Motifs analysis study if there is a large number of motifs.
5899	B	The software doesn't ask to save the changes in the current document when selecting File/Apply a template.
5940	B	The z absolute axis of a studiable may be shifted when the user loads a studiable having a very big z range.
5894	B	There is no error message and the ASCII file is not loaded if the user tries to load it whereas the file is already open in another software (Excel for example).

March 6th 2015

Version 7.2.7368

New features

New parameters for profile	Rp1 max, Rv1 max and Rz1 max are now available in the ISO4287 family of parameters in the Parameters table on profile.
Better ergonomics in Quad images reconstruction operator	The user can place automatically the images with a suggest button. Some stripes effect can be removed.

Bug corrections (A and B type)

5794	A	Mountains crashes when opening Surfscan profiles.
5795	A	A specific udf file cannot be opened in the software
5806	A	Some documents created in version 7.1 and containing a thresholding operator cannot be opened in version 7.2
5809	B	The partition and level operator may generate completely non-measured points studiables if the checkbox "Merge contiguous zones" is checked.
5822	B	The partitionned surface is changed in the Partition and level operator when the user selects the "Merge contiguous zones" check box, even if only one grain is selected.

5821	B	It is not possible to set the X and Y axis of a Surface-image studiable by using the ActiveX control.
5756	B	The S5v, S5p and S10z parameters are calculated from motif heights. It would be better to calculate them from the z heights.
5791	B	In the Averaged Power spectrum density study, the cursor is not positioned by defect on the maximum amplitude at study creation.
5793	B	The tolerance limits values are not exported in the text document when using the EXPORT_RESULTS_BY_LINE command in a command file.
5782	B	The stereo rendering on the 3d view study is not available if the user updates the software using the updater.
5772	B	The maximum value in the z axis is not displayed anymore in a 3d view on a Surface-image studiable if the user reopens a document if the image was displayed as the texture.
5777	B	It is impossible to export a page as an image if a page has already been exported as an image.

February 9th 2015

Version 7.2.7344

New features

Stereoscopic reconstruction operator improved	The Stereoscopic reconstruction operator from two images is much easier to use and more rapid.
Enhancements in Quad images reconstruction operator	The operator is more rapid and the reconstruction quality is enhanced.
New operator : Single image reconstruction on an image studiable	This operator can be used only with specific SEM image with electron gun inclination. It enhances the color visualisation of the image.
New rendering in the 3D study :	It is now possible to view surfaces in real 3D through 3D glasses.
New operator : Invert color on image studiable :	The user can invert color on images
New study on hyperspectral cube : Band view	It is possible to define color bands on a spectrum and visualize their location in a 3d view.
Improvement of the Sttiching operator	The x Y offsets can now be defined by drag and drop on a grid.
New operator : Mathematical function on surface and Series of surfaces studiable	Basic math functions (+, -, □, /, ^) can be applied to one or more surfaces
New Axes function when several studiables are selected	The same axis settings can be applied to surface and profile views in several frames to save time.
Customized Operators and Studies ribbons	Any icon can be removed from the Operators or Studies ribbons and transferred to a menu called Other where it is still active.
New functions in the Contour Study	Set the coordinates of the visible workspace using Axes Settings . Rotate profiles freely about their barycenter. Analyze more than one contour profile at the same time.
New navigation function in Studies on Series of surfaces	Use the new slider or enter the number of the required surface.
New operator : Correct helix angle on Profile studiable	Change the x spacing according to the helix angle.

New functions in the Summary of the last operator on Surface studiable	It is possible to display the axes, the grid, to enhance or optimize the color on pseudo color view, and to change resolution on 3d view.
New information in the Summary of the last operator for Patching and Stitching on Surface, Surface-images and Multilayer studiables.	The Summary of the last operator on Patching and Stitching now displays all the sources surfaces and their position.
Enhancements of the plane definition in the Step Height study on Surface.	The parameters are calculated directly when changing the planes zones of the Step Height Study. The level button is more visible.

Bug corrections (A and B type)

#	Type	Bug description
5184	A	Some profiler won't work on Windows 8 because of drivers.
5271	A	The Tip deconvolution operator won't work on some surfaces.
5522	A	The software may crash when the user clicks on the Analysis workflow, with a document containing a Threshold Layer operator on a Multilayer studiable, after a substitution with a multilayer containing a different number of layers.
5594	A	The Matlab operators won't work on a Series of profiles, Series of surfaces, or Multilayer studiables.
5616	A	The software may crash when loading Nanotec Ascii files.
5675	A	The software crashes when selecting a motif in the Extract Contour operator dialog if both thresholds values are set to zero by the user.
5753	A	The software may crash when using the Step Height study on a profile in automatic mode with a huge number of steps.
2602	B	There may be a difference in the values between automatic and manual mode in the fractal analysis study.
4724	B	The contour form changes in the Extract Contour operator on surface if the user uncheck the box "merge contiguous zone" and event if there is only one grain.
5149	B	Only one document is generated when the user applies a template on a folder, if the folder contains studiable having the same name but different extensions.
5362	B	The displayed scale is not the defined one in a Spectrum analysis study on a hyperspectral studiable, if the user sets the Axis settings to Imposed scale.
5379	B	The user can see the studiables generated by some operators (the operators that can be applied on several studiables, like patching) even if they should be unavailable in a locked minidoc.
5396	B	The proportion between the z axis and the XY axis is incorrect in the 3d view study when an imposed scale is defined, and when the Z amplification is set to Normalize.
5407	B	Some display problem appear in the ribbon when selecting several studiables of different type.
5475	B	The z height may be slightly incorrect after using the operator Convert a Series of profiles into a surface with absolute axis setting.
5510	B	The Map local properties operator doesn't work on a surface with very different dimension in X and Y.

#	Type	Bug description
5523	B	The threshold layer may not be the one originally chosen by the user when recalling a Threshold layer operator on a Multilayer studiable.
5533	B	The substitution of a multilayer studiable in a document containing a 3d view on one of its topographic layers may not work if the multilayer used for substitution has a different layer composition.
5539	B	It may not be possible to add a Force curve in a series with the Add/remove Force curve operator.
5546	B	The list of available spectra can be incomplete in the Add/Remove spectra operator, when the user recalls the operator.
5636	B	The result of the "Local map properties" operator is incorrect when reopening a document that contains this operator applied on another layer than the first layer.
5656	B	The parameter values are not refreshed in the R&W study (ISO12085) when the user changes the limits in the R&W limits dialog.
5683	B	The content of the 3d view study can be incorrect in a document containing a 3d view study and a Summary of the last operator with 3d view display.
5691	B	The Mountains window is black when the user minimizes the window and uses the SHOW command in a command file.
5694	B	The displayed wavelength is wrong in the Frequency spectrum study when the cursor is on the left extremum.
5702	B	Minidocs created by edition of the default Minidoc on Multilayer Surfaces are not properly applied.
5707	B	The document generated by the application of a template is not saved if the folder name is big and there are several studiabiles (too long name). The folder name should not be included in the template name.
5709	B	It is not possible to use the Stereoscopic reconstruction with images that are not perfect anaglyph.
5726	B	The numerical results appear in only one cell when performing a CSV export with the option "Export all results in the same row".
5767	B	The RONT parameters family are calculated in the Parameters table even if the shape of the profile is very far from a circular shape. The condition to enable circular profile in the Remove form operator on profile is inappropriate.

December 15th 2014

Version 7.1.7288

New features

Export in .stl format with better compatibility	The user can choose to export the .stl file either in ASCII format, either in binary format.
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Bug corrections

#	Type	Bug description
5334	A	It is no longer possible to define a fix x/y ratio (Custom Normalization) in the Advanced Contour study. This fonction was available in previous versions.
5451	A	The software crashes when measuring a profile on a Hommel T1000 profiler if a levelling is set in the dialog as a post-processing.
5150	B	The selected file filter is not memorised in a dialog used to apply a template. This refers to the dialog used to select a single studiable.
5241	B	The x axis of Force curves from nanoscope product (.001, 002...) may contain incorrect values.
5419	B	The software can't load some series of surfaces or multilayer files if they were saved by Mountains and if they contain a lot of elements.
5421	B	The values in the statistical document are incorrect if the documents of the population contain two Distance measurement studies on profile.
5427	B	The non-measured points are replaced by points with 0 altitude if the user saves a surface under Ascii format, with only the z values, and load the saved surface.
5432	B	The 3d view study may be black when applied on a surface, if the user previously applied the "save settings" on a surface-image with "use luminance" checked in the image enhancement dialog.
5521	B	The software windows disappears when trying to maximize it on an annex monitor if the Windows Aero theme is deactivated.
5603	B	The unit of the single parameters and the value of the statistical parameters maybe incorrect on a Parameters study on a Series of profiles if the unit preference is set to Best unit.
5628	B	The display of the Wavelength is incorrect in the "Filter Spectrum" operator on a surface, when you perform a zoom.
5634	B	There is undesired text in the Text box frame when using the TEXTBEGIN command of the Mountains.log command file to fill-in text when applying template.
5635	B	The facets of the exported .stl file have inverted direction, that prevents the file to be read by some CAD softwares.
5642	B	The units may be incorrect and the statistics value may be false in the Step height study on a Series of profiles if the unit option is set on "Best unit".
5643	B	The unit may change from km to m for the xy axis of a surface after changing the Unit preferences to Imperial and back to metric.
4163	C	The conversion to Imperial unit is not performed on the limits defined in the Tolerance limit study applied on parameters of the Volume of a Hole study, when the user changes the unit preferences.
4834	C	It is not possible to display a scale bar or a grid on a Series of images.

#	Type	Bug description
5198	C	It is difficult to access some settings buttons (ie: normalization) in the pull out toolbar on the preview of operators on surfaces: the Palette menu is too rapidly opened and hides the buttons.
5223	C	It is not possible to use the "Optimize" function in the Volume of Islands study.
5264	C	The z values are incorrect and the form is missing when opening a .Hhw file when the Best unit preference is set in the Unit and numbers preference tab.
5267	C	The menu item "Paste as a studiable" should no be enabled in the Edit/Paste drop down menu when the user has copied a studiable and has opened a new document afterwards.
5369	C	In the exported text file containing numerical result, the frame number of the Tolerance limit study is incorrect (-1).
5418	C	The numbers maynot be correctly aligned in the Z axis of a profile study.
5420	C	In the exported text file containing numerical results, there maybe some coma characters (","), that prevents the file from being read correctly.
5426	C	The comma character (" , ") is not regarded as a decimal separator in Ascii file format loading.
5434	C	The OK button is still available in the Extract layers operator dialog even if no layers is checked.
5438	C	The ics/ids Nikon file format is loaded as a Series of surfaces studiable, whereas it should be loaded as a Series of surfaces.
5444	C	There is an incorrect display of the color between the bars in the Step Height study on profile in manual mode.
5476	C	The unit of the Separation of wavelenghts frame maybe incorrect in the dialog of the "Filter Spectrum" operator on a profile.
5573	C	Some .dxf files can't be loaded.
5638	C	The current spectrum is not displayed when the mouse pointer hovers over the location of the extracted spectrum in the Extract spectra operator dialog.

September 22th 2014

Version 7.1.7204

New features

Multiple selection in Tolerance limit	Define the tolerance limits on several parameters at the same time from the Tolerance limit button of the Result manager panel or from the Tolerance limit dialog of the Contour study.

Bug corrections

#	Type	Bug description
5242	A	The statistics parameter values on a Series of Force curve study may be incorrect if the curve dimensions are not similar in the Series.
5333	A	The software crashes with a particular Series of force curves when changing the study settings.
5347	A	The software may crash when using the Threshold operator on profile if a Material ratio of 0 is entered.
5374	A	The software crashes when selecting the Roundness parameters of the Parameters study on a completely flat profile or a profile with only non-measured points.
5377	A	It is impossible to open, modify and save a document containing an add-on study: there is an error message when saving.
5142	B	An ActiveX study can modify the source study of the workflow analysis. It should not be possible.
5160	B	The parameters with volume or area units doesn't follow correctly the preference "Automatically adapt to the Best Unit".
5162	B	The angle can be equal to zero in the Distance Measurement study, if the Unit preference is not set to Best unit.
5215	B	Sometimes it might be impossible to interact with the surface inside the 4D View Study
5286	B	The software may be frozen when creating a diameter on a very big circle in the Contour Study. (ie created with an almost flat profile).
5293	B	The user can't move the points of the contour in the Volume of a hole study, after a copy-paste of the contour in the study.
5303	B	There is a display problem in the Filter spectrum operator on a profile.
5307	B	The pseudo-color study sometimes may not be added in the document with a surface-image study.
5312	B	The Volume parameters study display can be incorrect when defining a custom z-axis range.
5316	B	Export 3D View : the image exported or the exported video is different from the original in low resolution.
5317	B	There is no message asking to save the document if the user changes the tolerance limits from the Result Manager panel.
5321	B	The result of the stereoscopic reconstruction operator is inverted in z when the tilt axis is in the x direction.
5324	B	The surface and volume parameters of the Volume of a hole study may be incorrect if the z axis unit of the surface is not metric.
5325	B	The possibility to exclude zones in the Line levelling operator should be enabled in the Mountains Map SPM product.
5331	B	It is not possible to use the statistics document on parameters coming from several data (ie: mean of motifs area).
5345	B	The Sort grains operator on binary image may give incorrect unit values.
5360	B	It may be impossible to open a document created with a previous version and containing a Colocalization study.
5368	B	There is no action when clicking on the "Install the HASP Device Driver" button of the installation dialog.
5382	B	It is not possible to create a new document when a statistics document is opened.

#	Type	Bug description
5383	B	An error message is displayed if the Unit preference option is changed in two Mountains documents (and applications) at the same time.
5408	B	It is impossible to open a document created with a lite product in a more advanced product level.
4292	C	There is no error message if the user tries to apply the Form removal operator on a Multilayer studiable without topographic layer. It is not possible to apply a resampling operator on a Multilayer studiable without topographic layer.
4731	C	The result image is empty when the user exports a 3D view study in an image format at high resolution if the computer has not enough memory. There should be a error message.
5157	C	It is not possible to open the Retouch operator dialog of a document if the document has been created with a version 3.xx.
5168	C	The font name and font size is incorrect in the style dialog of the reserve when selecting two frames with different fonts or size.
5187	C	The 3 zones of the levelling operator are not displayed in the Summary of the last operator for a 3 points levelling.
5188	C	It is possible to display some parameters that are not part of the product in the Parameters study in some cases.
5192	C	The text style of a Grid view study on a Series of surfaces is not saved by the Save toolbar settings button.
5204	C	There may be some display problem on Profile or Surface default study when the user minimises the frame size and try to display the palette or the axes.
5205	C	The Sort grain operator on a binary image may not give exactly the same result when switching between sorting criteria.
5212	C	The File explorer and the Result Manager panels are still displayed in Preview mode if the document contains a User information or an Identity card.
5214	C	The Minidoc "Choose layer(s) to load in dialog box" loads the source studiable but not the selected layer(s).
5220	C	The OK button of the Line levelling operator should be grayed when the whole surface is excluded. ("exclude all" button).
5221	C	The X axis graduations are displayed on top of the graph in the Frequency Spectrum when the user shifts between logarithmic and linear scale.
5223	C	It is not possible to use the "Optimize" function in the Volume of Islands study.
5249	C	The Color scale width settings should not be available in the Properties dialog of a Summary of the last operator study on a profile.
5250	C	The frame size of the Summary of the last operator is not saved by the Save toolbar settings if only the image is displayed.
5262	C	The salient angle is always displayed in the analysis workflow and in the text export even if the supplementary angle is selected in the Contour study.
5266	C	The Color scale button should not be enabled when the Motifs view or Colored motifs view is selected in the Motifs study on a surface.
5268	C	The image preview size changes in the Export document as an image dialog, when the user changes the radio button in the Sources frame.
5274	C	There is an error message when the user cancels the application of the Minidoc "Choose layers to load in dialog box".
5290	C	The information texts are in black whereas it should be displayed in violet in some operator dialogs.

#	Type	Bug description
5291	C	The user can't directly zoom in the 3d view of the operator dialogs: he first has to click inside the frame.
5295	C	There is no result after applying a Morphological filtering operator on a profile in a particular case.
5297	C	The choice not to display the information parameters in a Series of surface curves is not saved by the Save Toolbar Settings button.
5304	C	The .sur extension is not in the file name when saving a surface with a name containing a point.
5305	C	The .txt files containing many empty lines can't be loaded.
5310	C	The Extract area contour is not displayed in the Summary of the last operator after an Extract area with circular contour on a surface.
5313	C	The gloss and lightning settings are inactive in a 3D view study with custom texture.
5318	C	In some case, a black image is created by the Build surface-image studyable operator.
5322	C	The Surface parameter of the Surface of a hole/peak study doesn't always have the same unit, even when the Preference unit option is defined.
5328	C	The display of the Texture Direction study shows a bug when used on a particular surface.
5330	C	The user can't add a pseudo-color study on a Multilayer studyable, if previously the mean image was selected in a Series of surfaces study and saved by the Save toolbar Settings button.
5337	C	The PDF export of custom add-on studies may be incorrect.
5340	C	The palette optimisation is incorrect for the Series of surfaces.
5342	C	The User information frame is not printed in the second page if it is in the page background.
5344	C	It is not possible to load a particular text file with points cloud in disorder.
5346	C	The Summary of the last operator after extract profile is not displayed if the Y axis name is not Y.
5349	C	The parameters order is modified in the Result Manager when a statistics study is created in a statistical document.
5358	C	It is not possible to mask the axes of a Series of images.
5359	C	It is not possible to create a Series of spectrum with .spc files.
5361	C	The parameters are not the same if they are calculated in a grains statistics study, or in the motifs analysis
5366	C	The axes of the Slices study are not displayed after copy-paste of a study with displayed axis.
5370	C	The OK button of the Line levelling operator should not be enabled when no correction method has been selected.
5371	C	The z absolute values may be incorrect after applying the Line Levelling operator.
5373	C	The ok button of the Thresholding operator on profile may be disabled by error on some cases.
5376	C	The default unit of the Sdq parameters of the Parameter study is the degree whereas it should have no unit.
5384	C	The center of gravity can't be created in the Contour study in some case.
5386	C	The z absolute values of a loaded .txt file may be incorrect after substitution.
5387	C	A black square can be displayed on the image of the 3d view if exported in high resolution.
5388	C	It is impossible to have a high resolution print or PDF export of a Summary of the last operator if it contains a 3d view.
5389	C	The image of the 3d view can be incorrect if the user prints in high resolution a document that contains two 3d view with different sizes.

#	Type	Bug description
5398	C	Some .jpg images can't be loaded in Mountains if the user select "all formats" and not ".jpeg" in the import dialog.
5399	C	The Spatial filtering operator can give obviously wrong result on certain surfaces when the window size is big.

June 16 2014

Version 7.1.7106

New features

Rotation in Contour Study	The profile now rotates around the barycenter of the points and not around the origin.
Custom zoom in Contour Study	The user can select the coordinates of the contour view.
Exclude edges in Contour Study	The user can exclude edges at the creation of elements from a dxf
Deviations from all kind of circles in the Contour study	The creation of residue and deviation is now possible from all kind of circles, even if the circle is not created from the profile points.
Substitution of a document	The user can directly substitute the document. Formely called Apply a template.

Bug corrections

5226	A	The software is frozen when applying the RC2 filter of the Standard filtering operator on a particular profile.
5253	A	Python addons cannot be executed by an user with limited rights once they have been run by a normal user.
5298	A	The software crashes when the Subtract profile operator is applied with two particular profiles.
5300	A	The software crashes when a particular Minidoc is applied.
5173	B	The study is not updated in the 3d view of the Summary of the last operator after an Extract area on an image if the user substitutes the studiable.
5211	B	The Result studiable preview is not recalculated in the Stitching operator when changing the levelling method.
4956	B	The optimization of the Color scale doesn't work in the Slice view study of a Force Volume studiable.
5236	B	The z values are 10 times too big in profiles measured with Surtronic3+ and Surtronic 25 profilometers.

5239	B	Some parameters maybe incorrect (Pitch - max pitch - min pitch - Coflatness) in the Motif Analysis study after copy-paste of the study.
5244	B	The display of the Disparity map in the preview of the Stereoscopic reconstruction dialog is incorrect when the 3d studiable is not selected.
5246	B	The software may be frozen when hovering over a very big circle with the mouse in the Contour Study.(ie created with an almost flat profile).
5259	B	When used by applying a Minidoc, the Colocalization study may be completely black.
5196	B	A Color scale appears in the Summary of the last operator of the Extract profile operator if the user inserts an operator before this study in the workflow analysis.
5153	B	The Y offsets of the .mi files are not correctly read.
5273	B	The surface and volume values may be overestimated in the Volume of a hole study on a surface, if the units are not the same in the studiable for the X and Y axis.
5289	B	After performing a extraction of profile, the Z information of the last point of the profile is not calculated.
4887	C	The borders of some frames may not be printed when saving the document in RTF format.
5224	C	The Use luminance check box should be enabled in the Enhancement dialog on the Distance measurement study on a Surface-image studiable.
5229	C	The display of the color menu is incorrect in the Axis menu of the studies if the Windows zoom is 125%.
5041	C	The handle points of the Step Height study on a surface are not displayed on full screen mode if the Calculation is not yet performed.
4073	C	The OK button is not enabled in the stereoscopic operator when it is recalled and without any setting change.
5270	C	A part of the image is incorrect when loading a TIFF file with data in floats 32bits.
5240	C	Some .fd3 files are not correctly loaded.
5218	C	The Export DXF button is enabled even if there is no element to export in the dxf (segments, arc or circle).
5258	C	The NM symbol should be displayed besides the color scale in the Summary of the last operator if the displayed surface contains non-measured points.
5117	C	The contour are not displayed in the image exported from the Stress study on disk studiable.
5287	C	The text of the waiting bargraph is not appropriate for the Lead Twist study.
5265	C	The user is not asked to save the change if he only changed the zoom of a profile view study when he opens another document.
4890	C	A wrong reference guide page is opened when pressing the F1 key on an Image or a Series of images.
5207	C	The color scale is not displayed in the Slices study when reopening a document created with an older version.

April 16 2014

Version 7.1.7045

Main new features

New « Separate grains » operator	The « Separate grains » operator allows to Separate or merge grains according to user criteria.
New « Multifocus reconstruction » operator on Series of images	It allows to reconstruct 3D surface topography from multi-focus image stacks
New « Divide surfaces » operator on Surface	Example: division of the voltage studiable by the topography studiable (in μm) to obtain volts/ μm , corresponding to absorbance (Beer-Lambert law).
New image shift operator	It allows the correction of lateral shift in a series of images
Structure exclusion	Automatically exclude structures to calculate the levelling plane or the form in Levelling operator and Form removal operator on surface.
New Microroughness preference operator	At profile loading, the software includes a microroughness operator in the workflow analysis.
Interactive 3D view in Summary of the Last operator	3D view in Summary of the Last operator on Surface, Series of surface, Surface-image and Multilayer. The user can change the the location of Extract Area or Extract profile with handles.
Improvement in Summary of the last operator	The Summary of the last operator on Threshold, Contour extraction, Binary segmentation, Zoom on a series of images has been improved
Enhancement of studies functions homogeneity	Some studies (Slices, Abbott curve, Palette) were improved by adding some common functions for studies (Grid, Scale bar, histogram, axes display)
Studies on Binary image	The « Grains analysis » study replaces the former « Binary view » and « measurement of a grain » studies. Grains are drawn in color.
Zoom on Studies on profile and Series of profiles	Profile views can be zoomed in and out using the mouse wheel or +/- keys. Lateral shift can be done using the mouse or arrow keys.
Contour study	Improved drawing quality, Create a full circle from the profile, create a circle from 2 points or a point and a radius
Template	The ergonomoy of the application of a template on a studiable or on a folder has been enhanced.
Minidoc lock	In Minidoc mode, you can protect the document by a password. The analysis steps inside protected Minidocs are invisible so that intellectual property invested in them is secure.
Export for 3D printer	You can export a surface and a surface-image in STL, VRML or X3D files, in order to print your surface on a 3D printer.
Add illustration	Drag & drop of an image as an illustration using Ctrl + drag&drop
Ascii import	Ascii import of clouds of points: order of columns can be modified
Preferences	The ergonomoy of the dialog has been enhanced.
Preference, ISO 4287	Calculate waviness over the evaluation length (new) or sampling length. Use the new definition for R _{Pc} or the original ISO 4287:1996 definition. Calculate R _{Sm} over the evaluation length (new) or sampling length. Use the new definition for R _{Sm} or the original ISO 4287:1996 definition. Calculate X _{dq} values in degree units or without units
Preference, ISO 25178	Preset the unit or locally change the unit in a Parameter table : Calculate functional volume parameter values in $\mu\text{m}^3/\text{mm}^2$ (or adapted) units or in ml/m ² units. Calculate S _{dq} values in degree units or without units.

Bug corrections

#	Type	Bug description
4717	A	The Extract slices operator on a hyperspectral cube may not be updated correctly when an operator is inserted before.
5087	A	The software crashes in some cases if the user selects a study in the Result manager panel and click on Collapse in the contextual menu.
5114	A	The software sometimes crashes when the user selects the statistical document in the right panel after he changed one document of the population.
5123	A	Mountains crashes if the user exports a document in RTF with the same name than an opened document.
5145	A	The software crashes when opening a particular force curve file and applying the default Minidoc.
5170	A	The software crashes when opening a document created in version 5 and containing a Contour study of the previous generation.
5186	A	The software craches when changing the amplification of the 3D display with the mouse on the Summary of the last operator after a 3 points levelling on a Surface.
5032	B	There is no immediate action when the user clicks on the "Smoothing" or "Iteration" button of the Averaged Power Spectrum Density study.
4678	B	Sometimes, the dialog box of the Resampling operator does not show the Z-axis informations
4704	B	When "Use Big Font" is ticked in the Preferences, A lot of dialog boxes become too big to fit in the screen.
4705	B	Force Curve Series : When trying to normalize the series, sometimes the results seem incoherent on a few curves.
4712	B	The Screen notes are not correctly printed, they look like simple rectangles.
4910	B	The horizontal bars of the interactive Abbott curve are not displayed at the good location if the surface contains non-measured points.
4969	B	The preferred unit are not correctly applied in Fractal analysis study.
5054	B	The Statistics menu buttons are sometimes disabled when the user successively opens the statistical document and one document of the population.
5090	B	On some PC, the 3d view is empty when it is not selected.
5120	B	The Tip Deconvolution operator does not respond properly with a particular file.
5134	B	An invalid result is sometimes displayed in the preview of the Stitching operator when changing a pre-process setting.
5146	B	Some elements of the Contour study are not printed in PDF.
5178	B	The distribution in the Parameter distribution study on a surface maybe incorrect after a Copy-Paste of the study.
5183	B	The value of the abscissa of the Parameter distribution study on binary image are 1000 time too big for form factor, Aspect ratio, Roundness and Compacity
5202	B	The absolute values of the z axis of the .sxm files are incorrects.
1213	C	The text displayed in a Text box illustration maybe wider at printing.
3836	C	It is not easy to come back to 100% zoom when using the zoom scrollbar in the status bar.

#	Type	Bug description
4189	C	The information parameter are displayed over the 3d view in the default view on a Series of surfaces, a Multilayer, or a Surface-image studiable.
4199	C	Displaying the title should change the frame size in the Summary of the last operator.
4203	C	The display of the frame of a 3d view study doesn't display the entire frame is the frame thickness is thin on a surface-image studiable.
4209	C	There is no information message if the user defines a surface size of one pixel in the Resampling operator.
4216	C	The document doesn't scroll when the user moves the 3d reserve below the last page of the document.
4348	C	There is no title in the Fill-in non-measured points operator that is displayed when a Multilayer studiable is loaded.
4362	C	The axis system lines may not displayed in the 3d view study in full screen if the frame size is low and if the 3d preference is in Direct3D.
4370	C	The included area of the Level line by line operator is not retrieved when recalling the operator if the last action was invert the include/exclude area.
4386	C	The RTF export of the document does not print the first page if it is empty, and may export some frames in the wrong page.
4388	C	The zoom factor is lost in the preview of the Mirror operator on a surface when changing a setting.
4402	C	The preview of the background image in the Add overlay image may disappear when removing the images from the list.
4424	C	The Fill-in non-measured points operator dialog is displayed when applying a template on a folder with surfaces containing non measured points, if the preference to display this dialog at studiable loading is checked. It stops this process that should be automatic.
4441	C	The Welcome dialog prevents to read an information message because it is displayed on top. This information message is displayed when opening the software after a crash.
4552	C	Some non-measured points on images maybe created by the Build Series operator on images.
4557	C	The order of the parameters in the result manager is different from the order in the study, for cursor parameters in Force curve.
4586	C	In a Series of force curves, the visualization zone may change when the user changes the current curve, if Curve limits were previously defined.
4589	C	The grain number is sometimes incorrect (for example the grain number maybe bigger than the total number of grains) in the Grains analysis study on a binary image.
4621	C	The user can't save the current document changes after the dongle is unplugged.
4622	C	The dongle is not recognised if the user unplugged it and plug it again on another USB port when the software is open.
4685	C	The dimension of the frame is not the same if the user copies and pastes a frame that is in full screen.
4749	C	The dialog used to lock a document or a minidoc is not ergonomic (position of the OK button, etc...).
4751	C	The frame doesn't come back to its initial size on a Summary of the last operator on a Profile or Series of profiles when the user exits the full size mode.
4788	C	In a 3d view study on a surface-image, the z axis graduations are not displayed if the image layer is displayed.
4824	C	Force Curve Study : when editing the axes with an imposed scale, the selected scale is not reported correctly in the document

#	Type	Bug description
4838	C	The Sdar parameter should be calculated from ISO25178 Sdr parameter.
4842	C	The overlay on a Colocalization study can't be moved in a particular case.
4843	C	In the Contour study, the parameters in the Deviation and Residue (Pa, Pt, etc...) follow the Unit preference option of the XY axis. They should be displayed in preferred unit for Z axis.
4848	C	The last parameter is not displayed anymore in the table of the Volume of Islands study, when the user adds a statistical parameter.
4849	C	The display may be incorrect in the Motif analysis study when displaying all the parameters and switch from full screen mode to normal mode.
4858	C	The user can't scroll with the mouse wheel in the Preferences dialog when there is a vertical scroll.
4861	C	The title may be hidden by the thumbnails for a Multilayer or a Surface-image Pseudo-color view if the title font size is big.
4862	C	The enhancement dialog is applied to all the layers of a Multilayer even if the checkbox "Apply to all" is not checked, in the pseudocolor study on a Multilayer studyable.
4863	C	The icons that represents the multilayer is in low resolution when the user exports the image in high resolution in the 3d view study of a Multilayer studyable.
4865	C	Nothing happens when the user clicks on the Load a studyable button of the title bar, after a click on a button of the Contour study.
4869	C	The "properties" button to open the dialog box of the frames should be disabled when the frame is in full screen mode.
4870	C	The color of the title in the Contour Study isn't immediately changed by the "more settings" Style dialog box.
4882	C	The histogram of the color scale can't be displayed in a particular case in a pseudo-color study.
4888	C	The style of the text in the Grid view study on a Series of image is not saved when reopening the document.
4892	C	The background color may not correctly printed in the Grid view study of a Series of surfaces or Multilayer.
4895	C	The line thickness around the Palette is thinner than the other lines when printed.
4897	C	The user can't change the number of slices of the Contour line study on a surface after a duplication of the study.
4900	C	The export path of the Export image function and Export image keeping resolution function should be the same.
4909	C	The escape key doesn't unselect the selected frames of the Parameters study.
4915	C	The histogram of the Abbott curve is not refreshed when the user changes the scale orientation in the Axes settings if the check box "Apply in real time" is checked.
4916	C	There is no Video export of the Series of profiles in the Profile curves and Step Height studies.
4917	C	The Curve color menu item should be enabled in the Scatter plot study when the Curve is not displayed, because it sets the Points symbol color.
4922	C	The X axis values are incorrects in the Abbott curve study on a Series of surfaces when selecting the distribution over the Series.
4923	C	The μ and sigma sign size is too little when printed, in the Control Chart statistical study.
4924	C	The normalization of the X and Y axes is not in the Axes setting button in the Frequency spectrum study on a surface.
4932	C	The F1 key doesn't open the corresponding Reference guide page when selecting an Abbott curve on a Series of surfaces.

#	Type	Bug description
4936	C	The color is not correctly applied in the different zones of the Volume parameters study on a surface.
4938	C	The color under the mesh is not saved when reopening the document in the color mesh rendering in the 3d view study on an image.
4943	C	The edit fields of the Bar settings dialog are not refreshed by the button Default settings in the Abbott curve when the check box "continuous density curve" is checked.
4945	C	The printing of the dotted lines is incorrect for the Volume parameters study on surface.
4950	C	In the Volume parameters study, the Non-measured points button shouldn't be in the ribbon.
4951	C	The user can set a negative value in the time frequency for autosave Preference.
4959	C	The chosen palette may come back to the default palette on the Pseudocolor view on a Series of surfaces, if the user changes the rendering.
4966	C	The display of the filling and background color is incorrect on a Step Height study on a Series of profiles when printed.
4970	C	Nothing happens when the user clicks on the Axes button to hide the axis in the Fractal analysis study.
4971	C	The parameters name are sometimes not displayed on the Rk parameters study graphic.
4972	C	In the Style option dialog of the frames, if the font and size setting is not applicable, the list is not greyed.
4973	C	The color of the fractal curve and of the tangent should not be the same in the Fractal analysis study.
4976	C	The text displayed in the bargraph when the Fractal analysis calculation is long is incorrect.
4977	C	The displayed layer can be changed in the Volume of a hole Study on a surface-image whereas it should not be available. (using the Enhancement dialog)
4980	C	The Measurement comment default frame size is too little to display the comment in the studiable if there is any.
4986	C	The cinema mode can't be started by pressing and holding down the arrow key in the Series of surfaces study.
4988	C	The Axis settings button concerning the Z axis is enabled in the pseudo-color view on a Surface image when the image is displayed.
4989	C	The size of the axis text in the 3d view study doesn't increase with the document zoom.
4992	C	The printing resolution of the 3d view is low if the user zoomed out the document, used the 3d and came back to 100% document zoom just before printing.
4993	C	The dimension block can't be displayed in a particular case in the 3d study.
5011	C	The list of displayed parameters is not the same in the R and W study on a profile when reopening a document containing waviness parameters.
5012	C	The current color is not selected when displaying the color menu in some studies.
5019	C	The Amplification button should be enabled in the 4d view study on a Series of surfaces when the Cinema mode is active.
5020	C	The 3D view study is empty when the user uses the mouse wheel to zoom out when the size is little.
5021	C	The user should be able to change the color curve of the Frequency spectrum on a profile in the "More settings" dialog.
5025	C	The Zoom factor of the Frequency spectrum study on a profile is not saved by the Save settings button.
5053	C	The population name is not correctly printed in the Box plot statistical study.

#	Type	Bug description
5056	C	The 'AsBbYyZz' text in the Style dialog of the studies should not be displayed for the elements that don't contain text.
5057	C	The Scatter Plot study is empty if it is created in a statistical document and if no parameter is selected by the user in the dialog.
5067	C	The palette optimisation of the Image enhancement dialog is not applied on the current layer but on the first layer in the 3d view study of a Multilayer if the palette was previously edited.
5068	C	The texture layer button should not be enabled in the 3d view on a Multilayer study when the rendering is in 2 colors or in material.
5076	C	There is no warning message in the Lead twist study when the evaluation length is corrected by the software.
5081	C	The X values in the Ascii exports from the Abbott curve study may not be the same as in the study display if the Z axis preference is not the default one.
5088	C	The last profile points are not taken into account when measuring with a S-Series profiler.
5099	C	The left and right edges Edit fields don't work in the Autozoom function of the Extract area operator if the X axis unit of the profile is in μm .
5103	C	Some .mi files can't be opened if they contain Force curves with slightly different spacings and lengths.
5106	C	The workflow analysis is not empty when the user creates a new document in this case: the user previously tried to open a study with a minidoc of a more recent software version and got an error message.
5108	C	The copyright date of the installation dialog is not 2014.
5110	C	The Standard filter operator is not applied if the cut-off value is very little.
5138	C	The dotted line disappears in the preview of the Filter Spectrum operator on a profile when the user clicks on the Undo button.
5141	C	Some .prn files are not correctly loaded.
5148	C	In a particular case, the study is empty when the user changes the Cantilever settings.
5152	C	No normalisation method check box may be displayed in the Normalisation operator dialog on a Series of force curves.
5159	C	When you export a motif analysis as an image, the ridge lines appear differently
5171	C	The Sk parameters display are not saved in the Sk parameters study when opening a document created with a previous version of the software.
5174	C	The user should not have access to the 3D view button of the Summary of the last operator on a Binary image.
5175	C	The cursor doesn't work in the Grain sorting operator dialog on binary image.
5180	C	There is a sort of visual filtering in the preview of surface in the Ascii file format dialog box at loading, in the X and Y point numbers are very different.
5189	C	The color scale is not correctly displayed in the 3d view study on a surface if the Windows zoom is 125%.
5190	C	The animation is stopped when the Cinema mode is activated in a 4d view study on a series of surfaces.

March 31st 2014

Version 7.0.7029

New features

Reference guide

Reference guide now available in Japanese and French

Bugs corrections

#	Type	Bug description
4784	A	The software may crash when opening a .am2 profile if the user input a big Search radius value in the consolidation dialog.
4804	A	The software may crash when using a command file that applies a template on several surface.
4833	A	The text content of the Volcanyon.log has changed. This file is created by the software at the end of the external command process, and the text should be the same as in previous versions.
4926	A	The software crashes with the Abbott curve study on a Series of surfaces if the user tries to export the depths or the curve.
3610	B	In the Contour Study on a profile, the creation of a circle in contact with the profile (gothic arc method) can be very long.
3747	B	The MOD height resolution doesn't have a good fidelity, z resolution should be improved
4756	B	The software may not display any message anymore, and a frame can't be deleted, after using a command file containing the "MESSAGES OFF" command.
4783	B	The tolerance limit parameter is lost when reopening a saved document if it is applied on a Sk parameter on surface without filtering. Same bug with Rk on profile.
4789	B	In the Extract area operator on a surface, the preview in the dialog has wrong XY ratio.
4807	B	The settings of the Rmr parameter is not available when choosing "over the reference" in the parameter table study on a profile.
4810	B	The contour study is not printed if it is not on the first page.
4821	B	The python addons wont work if they are applied on a studiable whose first line contains non-measured points.
4822	B	The manual offsets are not applied in the Patching operator when reopening a document if the box "Always patch all surfaces from disk" is checked.
4825	B	The size of the overlaid surface suddenly changes when moving it in the Colocalization study if the user changed the zoom with the mouse wheel.
4851	B	The .job studiable files can't be opened any more.
4941	B	The WLC curve can't be displayed in the Force curve study if there is no Normalisation operator applied before.

4942	B	The user can't choice to use always the same axis unit display with the Save toolbar settings function on Force curve study (for example display in nM instead of V).
4967	B	When opening a particular .am3 file, some outliers are displayed instead of non-measured points.
5116	B	The sign of the X parameter is sometimes positive whereas the cursor is placed on the left part of the Frequency spectrum study on a surface.
4226	C	When the user removes several pages, the message asking for a confirmation appears several times if there are several pages to suppress.
4377	C	The Pass/fail symbols of the Tolerance limits study are not printed when using a printer.
4399	C	The user can't move anymore the Distance measurement and Colocalisation studies on a surface by clicking inside the margins of the study.
4417	C	In interactive frames, like Step Height study, you have to click twice before being able to move or resize the frame.
4548	C	In the Stress study on a disc, if the contour is over displayed parameters, they can't be selected to change their format.
4590	C	After a substitution, the user can't select a grain in the Measurement of a Grain study after a studiable substitution.
4598	C	The handles of the study "Statistics over all grains" are not displayed when the user moves the cursor over the edges when all the parameters are selected.
4612	C	The Include/Exclude area option in the Levelling and Form removal operators should not be available in MountainsMap SPM product.
4613	C	The Height parameter of the Motif study can be incorrect if the unit of the z axis is not metric.
4665	C	The choice to display the average value of the steps on automatic mode is not saved by the Save Settings function in the Step Height study on a profile.
4679	C	The approach plot should be flipped around 180 degrees in a Force curve study when the X axis is set to the time.
4681	C	The numbers of the Steps can be displayed outside of the frame in the Step Height study on a profile if the axes are not displayed.
4684	C	The Depth value in the thresholding operator at a given material ratio is not calculated with fine detail and can slightly differ from the value in the Abbott curve study.
4706	C	The extremum points number are not displayed in the histogram display of the Abbott curve study and in the studies color-scale histogram.
4728	C	The check box "Allow Surfaces placement" should be disabled when the 3d view is selected in the Patching operator dialog.
4740	C	The rotation and offset information are incorrect in the Source surfaces of the Shift surface operator on a Series of surfaces. The information of the surface n is displayed in front of the representation of the surface n-1.
4743	C	The thumbnails should not be displayed in the Thresholding layer view in the Threshold layers operator dialog on a Surface-image.
4758	C	There is an incorrect display of the resampling operator dialog on Multilayer when the Use big Fonts preference is checked in Japanese.
4769	C	The Position edition fields of the Extract area dialog on a profile are not updated when using the Autozoom function.
4770	C	All the result studiabiles are not generated when choosing to save the result studiabiles at the application of a template, if in the template, the original studiable is renamed.
4782	C	The format of the table of parameter is not kept if the user copies and pastes a table of parameter containing Rk (on profile) or Sk (on surface) parameter.

4785	C	The Xdq parameters maybe incorrect in some case where the angle is big.
4786	C	The Parameter study and the Identity card study frames are empty in the document image displayed in the file explorer or in the Open a document dialog, or in the page image export.
4792	C	The current spectrum is not displayed and its position is not updated when the user moves the mouse cursor over the point in the preview of the Extract Spectrum operator on a Hyperspectral cube.
4793	C	The recent used palettes are not displayed in the Palette menu of the studies.
4796	C	There is nothing in the Measurement comment study applied on a .nms or .oms studiabiles, whereas some comments should be displayed.
4797	C	The units in the Identity card of the Parametric profile are in metric unit even if the preference is set to english unit.
4798	C	The style of some parameters in the Identity card is not retrieved when opening a document created with version 6.
4801	C	The software may crash when opening a .lif studiable.
4802	C	The user can't add a surface in a Series with the Add/remove surfaces operator if there is a vertical scrollbar in the dialog and if all the surfaces were removed from the Used studiabiles part with the Remove all button. Same bug with series of images.
4808	C	The external command that allows to export the file into PDF format is not correctly described in the SDK.chm file of the installation folder.
4809	C	A specific .oms file can't be opened.
4811	C	The axes of the 3d view study blink when changing the lighting type if the document zoom differs from 100%.
4814	C	The display of the Operator ribbon is incorrect in some cases when recalling an operator.
4816	C	The behavior of the analysis workflow is incorrect after the user has tried to open a document created with version 7.1.
4819	C	There is not enough place to display the context of the Rmr parameter in all cases in the Configuration of parameters dialog of the Parameters table study.
4820	C	The dialog previews are not updated when moving the slider with the mouse wheel in the High/low pass filter on an image.
4839	C	The user can't move one of the portion of the Stress study on a disk, if the opened document has been saved with two portions.
4840	C	The user can add or remove a surface in the Patching operator dialog with double click even if the box "Always patch all surfaces from disk" is checked.
4841	C	The Stop button has no action when measuring with a Surtronic.
4846	C	A specific MontageMultifocus.xml file can't be opened by the software.
5094	C	The z absolute values are not correctly read when opening .opd files.
5095	C	In Standard filtering operator, the cut-off can be changed by the software without user notification if a change in the previous operator conducts to an empty profile.
5097	C	On a particular .003 file, all the layers of the multilayer file are not opened.

January 27th 2014

Version 7.0.6966

New features

Stereoscopic reconstruction operator on images	Improvement of Automatic Settings interface
Screen Notes illustration	Default font improved

Bugs corrections

#	Type	Bug description
4464	A	A document using the Colocalization study may crash if changes are made so that the studiable generated by this study is empty.
4583	A	The software crashes if the Motif analysis study is displayed on a document with the "Motifs" view, and if the user scrolls the document.
4605	A	The software crashes when the Filter spectrum operator is applied on a completely flat or empty surface.
4606	A	The software crashes when a Threshold Spectrum operator is applied on a flat or empty surface.
4607	A	The software crashes when a Filter Spectrum operator is applied on a flat or empty profile.
4609	A	In the Colocalization study, the software may crash if the user Extracts the Background, drag this studiable from the workflow analysis and drop it over the Colocalization study in the document.
4624	A	On a particular case, when joining 2 profiles, the Z-offset disappears.
4628	A	TXT files heavier than 2Mo will not be used in the application of a template on a directory.
4629	A	The LSRad parameter in the Parameter table on a surface may have a wrong unit in some case. It is not well managed when the surface contains non-measured points.
4630	A	The application of a template on a directory with a lot of studiabes is more and more slow and eventually crashes.
4642	A	The software crashes when the unit of a surface-image studiable is in pm.
4663	A	Mountains crashes when opening a particular big .stl file.
4683	A	If a document is opened by double-click in the explorer, the operator management may malfunction. The Analysis Workflow is not refreshed after an operation.
4688	A	The software crashes when using an addon that tries to modify the source studiable of an operator.
4702	A	With a particular image, the software crashes when using the Quad image reconstruction operator.
4520	B	The software might get slower and slower when applying the template as a batch process.
4558	B	When 2 frames are superimposed, it is not possible to organize the frames so that one is sent backward or forward.
4576	B	In the Tip deconvolution operator dialog, when the user changes the tip geometry, the Tip 3d preview is not refreshed in the dialog.
4584	B	In the Parameter table study, some display styles saved in a document created in version 6 are not correctly reapplied when opening the document in version 7.
4611	B	In the step height study on a profile, a levelling is applied by defect, whereas it is not the case for Step height study on a Series of profiles. There should be no leveling by defect.
4620	B	The levelling process is not correctly removed in the Step Height study on a surface when the user deactivates the level according to plane 1.
4632	B	The text font size of the Text block illustration is not saved by the Save toolbar settings button.
4670	B	When applying Minidoc there may be some frame overlap.
4710	B	The portion filter zone of the Filter spectrum operator is not correctly retrieved when opening a document.
4722	B	In the Tip deconvolution dialog, the tip 3d view amplification is changed when the display is recalculated.

4732	B	The min/max diameter parameters on Statistics on grains study and Volume of Islands study may be different in version 32 and 64bit.
4744	B	When saving an image studiabile in a folder, the XY unit may not be correct.
4239	C	In Force curve analysis study, the choice of approach or retract curve display is not saved by the Save Settings button.
4410	C	The text of the "Save the document" button is misleading in Japanese.
4499	C	On a Series of images True color View study, the "Normalize size" entry in the contextual menu is unusefull.
4572	C	When reopening a document version 6 containing a Multilayer studiabile, the gamma correction is not recovered.
4588	C	In the Grain measurement study on a binary iamge, some parameter display are not saved with the "save settings" button.
4591	C	If a Statitics over all grains study on a binary image is in the document, the document preview display is incorrect (it shows the left and right panels).
4599	C	The Results values in the Result manager are not refreshed when the user substitutes a profil by a profile with Non measured points in a document with a R&W profiles study.
4602	C	In the Result Manager panel, in the Define filter dialog for Result export, the "Export all results" check box doesn't change the exported parameters.
4608	C	The chosen displayed layer is not saved when the user reopens the document on a colocalization study of a mulilayer studiabile on an image.
4615	C	In the "Partition and Level" operator dialog, the zoom in the previews are lots when the user changes a setting.
4619	C	The histogram display is incorrect in the Step Heigt study on a surface if the user chooses to level according to plane 1.
4623	C	The user can close the document without beeing asked to save the change if the user changes the displayed parameters of a study from the Result Manager panel.
4631	C	The Minidoc image tooltip can be too big if the user selected a big image to illustrate the Minidoc.
4634	C	The template process may malfunction after the user applies a Minidoc that contains no studiabile (ie only an image).
4637	C	The location of the content of the User information illustration in the Result Manager panel is not correctly managed.
4639	C	The dimension of the overlay in the Colocalization study is not correct when the user opens a document created in version 6, if the dimension was changed in version 6.
4643	C	It is not possible to use the Result manager panel to suppress a parameter in the Distance measurement study.
4646	C	In Distance measurement and Step Height study on a surface, the "scale" entry is in the "more settings" dialog whereas there is no scale bar display in these studies.
4648	C	In the Step height study on profile, some settings are not saved by the "save settings" button.
4649	C	The value of the graphical scale is not adapted when the user zooms into the Colocalization study on a surface or an image.
4656	C	The display in the Distance measurement study on a surface can be modified if a previous operator id activated or deactivated.
4657	C	In the Rk profile study on a profile, the "filled hole profile" should be displayed with a z shift so that it fits to the raw profile.
4661	C	In the Parameter table on a profile or on a surface, the Filter setting dialog doesn't take into account the "Manage end effect" check box to calculate authorised cut-off.

4667	C	There may be error messages when using PDF document of a Mountains file containing a Parameter table on two consecutive pages.
4673	C	When the resolution of the screen is too small (1024*768), the Préférences Windows does not appear entirely.
4693	C	Errors may occurs when using addons with surface-image studiable without image or intensity layer.
4694	C	Some pages maynot be exported in PDF if there is a frame straddling on two pages.
4696	C	The Grid view study on a Series of surfaces mayhave an incorrect display when changing the units preferences.
4700	C	In the "more settings" dialog of studies, the custom colors can't be applied.
4704	C	When "Use Big Font" is ticked in the Preferences, A lot of dialog boxes become too big to fit in the screen.
4711	C	The double point character (:) can't be used in Addon parameters.
4719	C	In the Motif Analysis study, the sphere radius paramater displayis not saved when the user saves and reopens the document.
4723	C	The size informations are missing in the dialog of the Morphological filtering on a surface.
4736	C	There may be some decimal values when displaying the values in point in the "Auto zoom" function of the Extract area operator on a profile.
4737	C	Even if Screen notes are in "non printable" mode, they are printed in RTF format export.

September 30th 2013

Version 7.0.6845

Bugs corrections

#	Type	Bug description
4243	A	Export of Texture direction : the output format is incorrect
4251	A	When using the updater, an error message appears.
4300	A	File loads in V6 does not load in commercial version of V7
4339	A	The software crashes when renaming a file from the studiables explorer
4366	A	The software crashes when an operator is added on a series
4374	A	PDF Export : When saving in PDF, the texts in Japanese characters disappear.
4416	A	The Sdr parameter is not correct.

#	Type	Bug description
4418	A	Writing the following commands into "mountains.log" file
4480	A	Difficulties to load a document with the new 3D View
4481	A	The Version 7 often crashes
4492	A	When opening a file saved in a previous version, an error message appears
4497	A	MountainsMap V7 does not work under Windows 8.1.
4044	B	In the Extract contour operator on a surface or on a image, if the "merge contour" option is checked, the user can't select several contour profiles, only one is created.
4214	B	Export 3D in video : the exported video cannot be read by Media Player
4241	B	In the Force curve analysis study, the display zone is not recovered when saving and reopening the document.
4247	B	Sk/Rk parameters Study: it is impossible to display all of the parameters
4250	B	When resizing the parameters table, the GDI objects are not handled correctly
4253	B	In the Contour Study on a profile, in a particular case the Normalize setting "Let the program normalize the studiable automatically" gives an incorrect display.
4256	B	In the 3D view study, the dimension block characters and frame look scrambled.
4259	B	The settings saved in the registry are lost when moving to the version 7
4260	B	Summary of the last operator of Leveling : The leveling angle displayed is incorrect
4290	B	Motifs Study on a Mutlilayer: the study is not refreshed when substituting the studiable
4295	B	3D View: the normalization of XYZ in real size is incorrect
4302	B	Export PDF: When exporting a document with a 3D View, the 3D view reserve of the document is empty
4306	B	On a series of force curves, the "Calibrate constants" operator setting may change if a force curve is removed from the series.
4307	B	On a force curve or a Series of force curves, the parameter display can be incorrect if the WLC method is selected and if the "curve limits" zone doesn't contain all WLC events.
4308	B	When switching from version 6 to version 7, the preference of "Sampling length" is not saved
4320	B	Export 3D View in PDF: the 3D views of the first page only are exported normally, the others are empty
4331	B	AVI Creation : the created AVI file seems to show only one image
4391	B	Contour Analysis : After an amplification of the Z axis, the creation of point is impossible
4423	B	Fractal Analysis : the Z axis shows the unit but not the values.
4427	B	After closing a document that is locked, it is not possible to perform a drag and drop of a studiable or of a document from an explorer.
4488	B	Parameters Rq, Rsk and Rku : For a profile with non-measured points, the number of sampling length used in the calculation of the parameters was incorrect.
4518	B	In the Hyperspectral slice view study of a hyperspectral cube, the wavenumber of the spectrum is displayed in relative value, not in absolute.
4532	B	The spherical cap displayed in the Motif analysis study on a surface maybe incorrect if the X and Y spacing are different.

#	Type	Bug description
4539	B	The rotation operator on an image won't work in a particular case.
2808	C	The Sdar and Spar are not described in the online help.
3983	C	It is not possible to set the transparency at 100% with a RGB 3D view.
4213	C	The Identity card illustration informations on a Series of force curve are only relevant for the first curve of the series.
4220	C	In a Series of force curves, all the WLC curves of the series are displayed. Only the current WLC curve should be displayed.
4222	C	In a Series of force curve study, when the user scrolls across the curves, the display zone is each time redefined, which prevents to compare the curves in the same zone.
4223	C	In a Series of force curve study, the "AutoScale" function won't work in a particular case.
4229	C	In the 3D view of a surface image, when the thumbnails are displayed, it is not possible to select the table.
4240	C	The summary of the last operator does not work in some particular cases.
4242	C	Interactive Abbott Curve on a profile : Other parameters than the saved ones appear when saving the document
4244	C	the naming of current elements of series and multilayers change randomly
4248	C	Averaged Spectrum Density on a surface: some entries are to be masked
4249	C	When deleting a studiable, the others studiable previews in the Studiable explorer are not refreshed correctly
4254	C	Volume parameters: you can input values higher than 100%
4255	C	Volume of Islands: The threshold value is lost when duplicating the reserve
4257	C	The "Best unit" choice won't work on non-metric units (pressure MPa or energy kJ)
4262	C	3D View: the position of the cartouche stays the same after a substitution
4263	C	3D View: the Axes system changes position after a copy-paste
4265	C	Abbott Curve: the grid cannot be masked
4266	C	Abbott Curve on Series: the parameters table of the reserved is not displayed
4270	C	3D View: after stopping the animation, the graduations and the axes are desynchronized
4283	C	The elevators of the Shortcut panel are different from those of Mountains
4286	C	3D View: the bulk cannot be masked when animating a series of surface
4288	C	Volume parameters: the bearing ratio is not limited between 0 and 100%
4289	C	Texture Direction on Multilayer: the study behave unappropriately
4293	C	Contour Analysis: the points of the profile are not displayed properly
4296	C	Abbott Curve on Multilayer: the table has to be masked when deselecting all the parameters
4297	C	Save/Restore settings: some notes are not translated correctly
4298	C	Save/Restore settings: in some case, an incorrect text appears
4299	C	In the Préférences, some settings are not saved (Absolute/ relative, numbers...)

#	Type	Bug description
4304	C	Save/Restore settings: some text has been cut off
4305	C	Save all current software settings in a backup file : the file cannot be retrieve after saving
4310	C	There may be an error message at the substitution of a force curve study if the zone defined for normalization is flat.
4311	C	Multilayer file with several topography layers: the parameters table does not show the parameters correctly
4312	C	Averaged Power Spectrum Density: the "Axes" entry has no effect
4314	C	In the statistical study 'Histogram', double-clicking on the study does not open the 'Observed results' dialog.
4317	C	When inserting a tolerance limits study, it is often placed at the right side of another frame and exceeds the size of the page.
4318	C	The Texture direction study does not work on some studiables
4321	C	Export 3D View in video: some of the elements of the reserve are not exported
4322	C	3D View on Series of Surfaces : When animating the series before displaying the cartouche, the latter is displayed without border
4323	C	Impossible to paste a reserve after opening and validating the parameter selection dialog
4325	C	When selecting or deselecting parameters on some reserves, the reserves are not refreshed properly
4327	C	In the Préférences, Image normalization : none of the buttons are ticked
4336	C	Some previews of studiables are not shown in the Studiables explorer
4337	C	In the Studiables explorer, the number of elements of a series is cut off.
4340	C	Distance Measurement on a profile : the cursors keep moving even after releasing the mouse button
4347	C	Force Curve : the WLC curves cannot be masked
4352	C	Force Curve : When restricting the visualisation zone, the curve disappears
4356	C	Summary of the last operator : the image go beyond the borders of the reserve
4361	C	Fill Non Measured Points : the préférences changed from the version 6
4367	C	Series of spectres : the number of elements shown in the studiables explorer is incorrect
4372	C	In the studiables explorer, the minidoc icons is not refreshed immediately
4376	C	Series of Force Curves : the display of the statistic parameters is incorrect
4381	C	Result Manager : when adding/deleting tolerance limits, the result manager is not refreshed directly
4385	C	The display of the mean value in a Control chart on a series of studiables does not always work, it is often displayed at the bottom of the graph.
4389	C	On the 3d view of a surface-image studiable, the z axis values may be incorrects if the image layer is selected when reopening the document.
4394	C	Colocalization : in the Image Enhancement dialog box, the first level of settings does not have a title
4395	C	Colocalization Multilayer : the enhancement of the studiable occurs only on the image, not on the multilayer studiable

#	Type	Bug description
4396	C	Colocalization : when setting an "enhancement" on several overlays at the same time, the change occurs only on one overlay.
4397	C	Contour study containing a profile alignment to a DXF: After a substitution, the DXF is moving from its original position by a small amount. (only the profile should move relative to the DXF not both)
4398	C	Colocalization : the suppression of several overlays at the same time does not work properly
4407	C	in the SDF format, the non-measured points are not read correctly
4411	C	the Y axis is reversed when loading SDF files
4412	C	Redimension of the reserves when opening 3 studiables in a row
4422	C	In the Step Height study (manual method) on a profile, the cursor set pairs are not numbered any more in the graph.
4425	C	Distance Measurement : Min/Max are not updated when a studiable is substituted
4436	C	Export in PDF : the Min and Max of a Distance Measurement are not represented correctly
4442	C	3D View : When loading a document saved in version 6 into the version 7, some ASSERT appear
4443	C	3D Custom Texture : the field of the pulldown list is sometimes too small to choose the right texture.
4445	C	The X and Y axis do not show the entire range of values
4446	C	The 3d view display is incorrect if a frame located below the 3d view frame is selected.
4448	C	Control chart : the values of LCL/UCL are not saved
4450	C	ZRGBI file : the informations of the Z axis (Zmin, Zmax,...) are incorrect
4451	C	ZRGBI file : the settings of the Z axis on the intensity layer is not saved
4452	C	When copy-pasting several reserves in bitmap, white images may appear.
4453	C	Distance Measurement on a ZRGBI file : When reloading a saved document, the Z coordinates are incorrect
4454	C	Distance Measurement on a ZRGBI surface : Minimum and Maximum are masked under the texture of the studiable
4461	C	Texture Isotropy : the selection of the table are easily lost
4462	C	3D View : in the Version 7, the "custom continuous texture" appears in black
4470	C	The parameters that can be stored in the Surf file format comment are displayed in inverse order in the Identity card.
4475	C	Thresholding on a profile : in the dialog box, the title of the preview is "Result Surface"
4489	C	Abbott Curve : When copying the reserve, the bordure at the bottom of the results table disappears
4491	C	Imprecision on the calculations of the parameters Pd _q , PL _q , Rd _q , RL _q , Wd _q , WL _q
4493	C	ID Card : Some comments on the measure do not appear properly
4495	C	Colocalization : the rotation button does not react properly
4496	C	Colocalization : the arrows of the overlay menu are always deactivated

#	Type	Bug description
4501	C	Summary of the last operator : the font of the text can be changed by two items
4513	C	Display problem with force curves in the "Force curve analysis study" - the force curve disappears when changing the cantilever settings in certain cases.
4526	C	3D View: When opening a document from a version 6 in a version 7, the default settings of the graduations is lost.
4527	C	When creating a new reserve, the selection of the add-on parameters in the Parameters Table is not memorized.
4536	C	3D View : The zoom level change without touching it
4245	T	Storable explorer: when showing the details, 2 columns Size appear

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