

Simpleware Software Release T-2022.03

Highlights of New Features

New Features

- Shoulder CT tool in Simpleware AS Ortho
- Keep all bone fragments option in Simpleware AS Ortho
- 2D contour measurements
- Improved 3D printing workflows
- Create interlocking 3D parts with our pins and sockets tool
- Streamlined aortic valve analysis for Simpleware AS Cardio
- De-stepping smoothing
- NIFTI import
- DICOM encapsulated OBJ*

Improvements

- Metal artefact reduction with new algorithms
- Enhanced registration workflows
- Improved performance for some tools for larger datasets
- Background centerline generation pre-processing option

* Features only available in Simpleware ScanIP Medical

Overview

Version T-2022.03 further advances Simpleware software's ease-of-use and reliability as a comprehensive solution for all your 3D image processing and analysis workflows.

Measurements

In our latest release, we have expanded the measurement capabilities within Simpleware software. The new aortic valve analysis tool streamlines workflows associated with cardiac data. Additionally, our new 2D contour measurement tool provides an ease-of-use solution for cross-section analysis.

Auto Segmentation

With the T-2022.03 release, we have further expanded our Auto Segmenter library. Our new Shoulder CT tool in Simpleware AS Ortho is a valuable tool for segmenting large batches of data. Furthermore, we have incorporated the option of keeping all bone fragments for our CT-based ortho Auto Segmenter tools.

3D Printing Capabilities

Our 3D printing toolkit has been enhanced with our latest release. We have improved the de-stepping capabilities for 3D printable surfaces. In addition to this we have included a 'check and fix' inspection tool and a pins-and-sockets tool, enabling the easy generation and processing of interlocking 3D prints.

Simpleware FE Module

The T-2022.03 release has also improved exports to Ansys Workbench for static structural simulations. Additionally, new stats can be generated using our Map to mesh tool for fiber analysis.

New Shoulder CT Auto Segmenter Tool**

- Fully automated AI segmentation of shoulder CT scan
- Segments the Humerus, Scapula, and Clavicle
- Automatic positioning of anatomical landmarks
- Automatic region of interest detection to speed up inference

2D Contour Measurements

- 2D contour creation from straight lines, splines, and active contours
- D-shaped contours for computing dimensions of D-shaped annulus
- Comprehensive analysis of dimensions throughout workflows
- Valuable tool with multi-planar reconstruction

3D Printing: Pins and Sockets

- Easily generate interlocking 3D parts for printing
- Partition and assemble mode
- Assemble disconnected surfaces mode
- Modifiable pin and socket geometries before and after pin placement
- Smooth workflow in exporting parts for your printer

Aortic Valve Characterization***

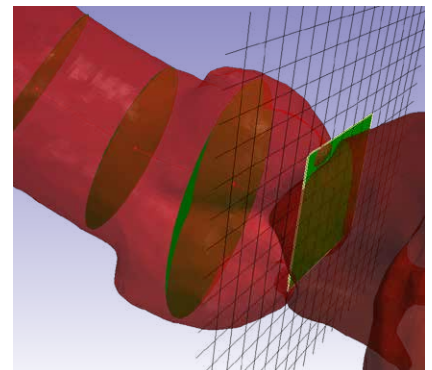
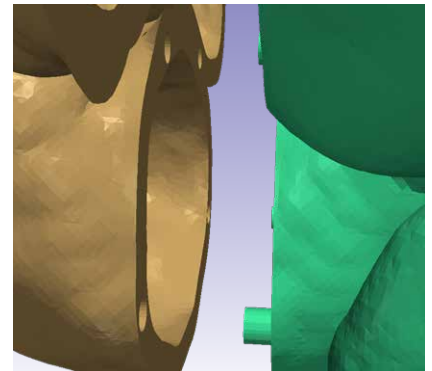
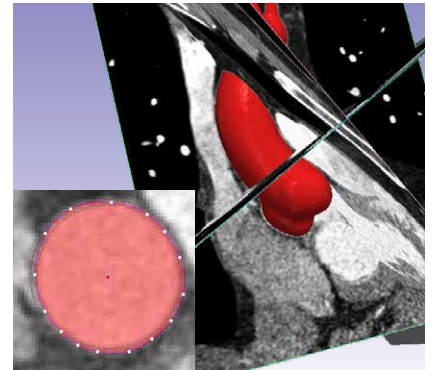
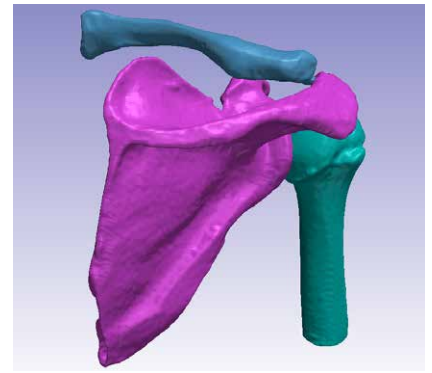
- Efficient analysis of aortic valve location and dimensions
- Computation of Annulus plane, Aorta Cusp plane and Ostia distances
- Compute centerline analysis, including Sinus of Valsalva, and Sinotubular junction

Additional Improvements

- De-stepping tool for smoothing stepped segmentations resulting from a large pixel spacing
- Improved 4D landmark display
- Improved rendering options

** Features only available with the Simpleware AS Ortho module

*** Features only available with the Simpleware AS Cardio module



For more information on Simpleware Software, go to www.synopsys.com/simpleware

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