

Feature Comparison of Simpleware Software Products

Version S-2021.06

Image Processing Software Options

Feature	Simpleware ScanIP	Simpleware ScanIP Medical
Import Image Data (incl. CT, MRI, JPEG...)	✓	✓
Store, Manage, and Anonymize DICOM tags	✓	✓
Register Multiple Datasets	✓	✓
Image Processing Tools (Crop, Resample, Align...)	✓	✓
Volume Rendering	✓	✓
Segmentation	✓	✓
3D Printing Toolkit (Model Preparation, Printer-Friendly Exports...)	✓	✓
Image Space Filters for Artefact Removal and Correction	✓	✓
Robust Booleans Between Parts	✓	✓
Measurement and Statistics Tools	✓	✓
Shape Fitting and Stats	✓	✓
Wall Thickness Analysis	✓	✓
Generate and Probe Centerline Networks	✓	✓
Generate High-Quality Surface Meshes	✓	✓
Export Single or Multipart STL Files	✓	✓
Export Range of Surface Formats	✓	✓
CE Marked and FDA (510k) Cleared		✓
Enhanced PACS (Two-Way) Communication		✓
DICOM Encapsulated STL Format		✓
4D Image Support (Import, Visualise, Cine Modes...)		✓
Import and Register 2D X-Ray Images		✓
Generate Virtual X-Rays		✓
Export Encrypted 3D PDF Files		✓
Scripting API (C#, Python)*	✓	✓

Add-On Modules

Feature	Automated Segmentation			CAD Integration		Model Generation		Physics Simulation		
	AS Cardio	AS Ortho	Custom Modeler	CAD	Design Link	FE	NURBS	SOLID	FLOW	LAPLACE
Fully Automated Segmentation of Hearts (3D and 4D)	✓									
Automatic Placement of Anatomical Landmarks for Hearts (3D and 4D)	✓									
Fully Automated Segmentation of Hips, Knees and Ankles		✓								
Automatic Placement of Anatomical Landmarks for Hips, Knees and Ankles		✓								
Automatic Region of Interest Detection for Auto Segmentation	✓	✓								
Fully Customized Automated Image Processing Solution			✓							
Import Surface Objects (STL, STEP, IGES...)				✓						
Check and Fix Surface Objects				✓						
Create Primitive Shapes				✓						
Register Datasets (Automatic, Landmark...)				✓		✓				
Position Surface Objects				✓	✓					
Surface Filters (Smooth, Decimate...)				✓						
Surface Editing (Extrude, Clip, Hollow, Sweep...)				✓						
Convert Surfaces to Masks, Masks to Surfaces				✓						
Robust Booleans Between Surface Parts				✓						
Surface Deviation				✓						
Feature Edge Preservation				✓						
Internal Structures Wizard				✓						
Mesh Decimation and Refinement Options				✓		✓		✓	✓	✓
Export STL Files				✓		✓				
Import SOLIDWORKS® Parts or Assemblies					✓					
Dynamic Link with SOLIDWORKS® (Pull, Position, Orientation...)					✓					

Add-On Modules Cont.

Feature	Automated Segmentation			CAD Integration		Model Generation		Physics Simulation		
	AS Cardio	AS Ortho	Custom Modeler	CAD	Design Link	FE	NURBS	SOLID	FLOW	LAPLACE
Generate High-Quality Volume Meshes (Hex/Tet or All Tet)						✓		✓	✓	✓
Automated Greyscale-Based Material Property Assignment						✓		✓		
Generate FE Meshes (Shells, Contacts, Node Sets, Boundary Layers)						✓				
Generate CFD Meshes (Boundary Conditions and Boundary Layers)						✓				
Import Existing Volume Meshes						✓				
Position and Scale Volume Meshes						✓				
Export FE Meshes (Ansys Abaqus, COMSOL...)						✓				
Export CFD Meshes (Fluent, COMSOL...)						✓				
Choice of NURBS Algorithms							✓			
Export NURBS Surfaces (STEP & IGES)							✓			
Calculate Effective Elastic Properties								✓		
Calculate Absolute Permeability									✓	
Calculate Effective Thermal and Electric Properties										✓
Visualize Physics Simulation Results								✓	✓	✓
Compatible with ScanIP Scripting*	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Any Questions?

For more details on any of these options, please contact us at simpleware@synopsys.com.

* Please note that some tools may not currently be compatible with scripting. Please contact us for further details.