

# Feature Comparison of Simpleware Software Products

Version U-2022.12

## 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	✓	✓
Pores, Particles and Fibre Analysis	✓	✓
Generate and Probe Centerline Networks	✓	✓
Generate High-Quality Surface Meshes	✓	✓
Export Single or Multi-Part STL Files	✓	✓
Export Range of Surface Formats	✓	✓
CE Marked and FDA (510k) Cleared		✓
Enhanced PACS (Two-Way) Communication		✓
DICOM Encapsulated STL/OBJ Format		✓
4D Image Support (Import, Visualize, 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/ CMF	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)	✓									
Heart Valve Analysis (Location and Dimensions)	✓									
Fully Automated Segmentation of Ankles, Heads, Hips, Knees & Shoulders		✓								
Automatic Placement of Anatomical Landmarks for Ankles, Heads, Hips, Knees and Shoulders		✓								
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				✓		✓				

## Add-On Modules Cont.

Feature	Automated Segmentation			CAD Integration		Model Generation		Physics Simulation		
	AS Cardio	AS Ortho/CMF	Custom Modeler	CAD	Design Link	FE	NURBS	SOLID	FLOW	LAPLACE
Import SOLIDWORKS® Parts or Assemblies					✓					
Dynamic Link with SOLIDWORKS® (Pull, Position, Orientation...)					✓					
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](mailto:simpleware@synopsys.com).

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