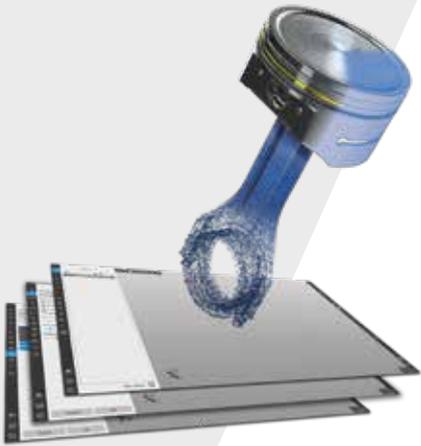


RevEng™ Capture

Improve the way you capture and mesh objects



Versatile Software for a Streamlined Workflow

FARO® RevEng Capture is a user-friendly 3D point cloud capture, mesh generation and advanced editing software solution that offers an array of powerful tools for processing mesh models quickly and efficiently.

RevEng Capture helps users to create high-quality 3D mesh models as well as prepare the models for downstream CAD development. Combined with FARO's portfolio of 3D scanning products, users are able to easily capture and edit meshes in color to create the perfect model or CAD-ready file.

Data ranging from high-resolution color point clouds to simple mesh files can be transformed into detailed meshes, providing more insight into the design, composition and visual differentiation between materials and textures. RevEng Capture's intuitive user interface visually displays all the tools within a single screen. This facilitates the easy manipulation and customization of a 3D object to meet specific design requirements, improving workflow productivity to provide users with a competitive advantage.

Features

Capture

- Point cloud capture

Optimization

- Mesh repair and adjustment
- Hole filling
- Mesh smoothing and feature enhancement
 - Maximum deviation limit while smoothing
 - Curvature map visualization

Editing

- Point cloud editing
- Mesh editing

Geometry Generation

- Extract curves from mesh
- Planar section generation
- Generating offsets and shells

Benefits

Reliable and Robust Device Connection

Excellent out of box experience with a completely tested and full featured solution. Setup is fast with integrated device drivers and efficient user interface.

Efficient and Rapid 3D Point Capture

Increase productivity by reducing data capture time and eliminating overlapping points. Create up to 1.75X lighter models with the grid management feature to obtain clean, light and consistent point cloud data.

Automatic Optimization Tool for Meshing

Obtain dimensionally accurate, reliable and repeatable mesh file results. The best in class single button tool provides quick performance and optimized surface quality.

Best in Class Mesh Editing Capabilities

Increase user efficiency with the powerful editing tools. Quickly optimize meshes up to 20X times faster than the current leading tools with the automated Mesh Fix tool and improve smoothing effectiveness up to 1.5X faster.

Ideal Applications

Reverse Engineering: Capture legacy parts in order to implement improvements and design replacement parts.

Aftermarket Customization: Quickly and accurately scan sections of cars as the foundation for custom designs; create parts that fit like originals the first time.

Rapid Prototyping: Digitize hand-made prototypes, then refine and optimize the mesh for 3D printing or transition into production.

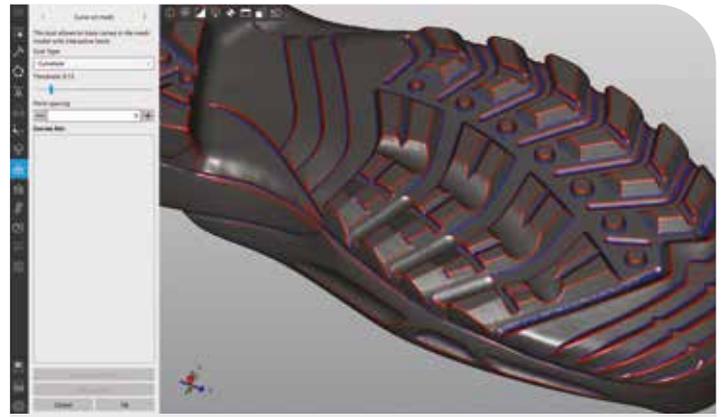
Computer Graphics: Easily optimize captured objects to add real-world elements to the virtual world for VFX, AR/VR, and digital marketing projects.

Cultural Heritage: Create digital libraries with greater detail for the preservation and virtual display of historical artifacts.

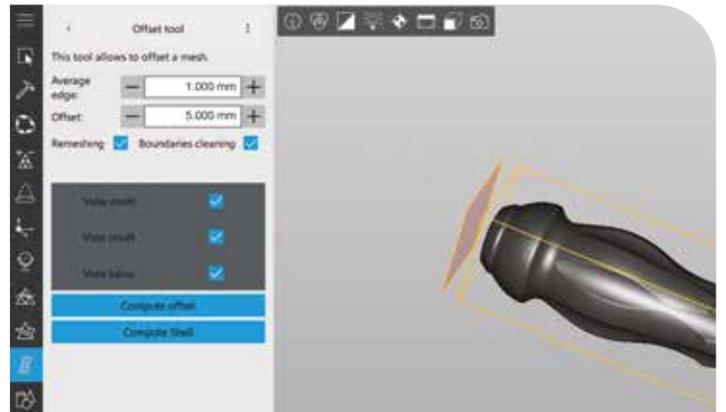
Casting: Scan original artwork or patterns and scale to the desired size, archive wooden patterns for future use, and 3D print molds and inserts for a complete digital process.

Technical Specifications

Minimum Computer Requirements	
Platform	Windows 7, 10 64 bit
CPU	i7 (6th generation)
RAM	min 16 GB
Ports	1 USB
Graphic Card	nVidia GeForce GTX or Quadro min 8 GB DDR5
Display Resolution	1600 x 900, 16 millions of colors or higher



Easily select and extract curves from a mesh using the curves tool.



Users of any level can operate effectively with the clear and intuitive interface.



Quickly undo or redo any operation using the detailed action history list.