Unlock the Power of 3D Scanning™

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Fast and Easy
3D Scan Data Processing™
Convert 3D Scans to Complete Meshes & NURBS Surface Models
With Your 3D Scanner and RAPIDFORM® XOS™

Get More from Your 3D Scanner
Prepare data from any 3D scanner for downstream use. Remove unwanted data, address common issues, and even recreate missing information from scans, all with just a few clicks. No matter what you scan or how you scan it, Rapidform XOS has all the tools to turn it into an accurate, high quality model.

Bring the Real World to Your Software Environment
Capture complex geometry that can only be measured using 3D scanning technology. Measure anatomic objects to provide better medical care. Archive cultural heritage artifacts to preserve them for future generations and learn more about our past. Create accurate NURBS surfaces of freeform shapes for design improvements and remanufacturing.

Ensure High Quality, Professional Results
Rapidform XOS is built with the most advanced 3D scan data processing algorithms, used by thousands of companies every day. Backed by the 3D scanning experts at Rapidform, XOS users receive the training and support they need to get the best possible results from their 3D scanner.

Leverage 3D Scan Data Anywhere
Turn point clouds created by your 3D scanner into usable meshes and NURBS surface models. The output from Rapidform XOS is perfect for a multitude of applications like 3D printing, surface modeling, computer aided engineering (CAE), animation and computer graphics.

Efficiently Bring Products to Market Faster
A short learning curve and fast data processing enable you to spend less time preparing your scans and more time using them. Using Rapidform XOS, you can leverage real world geometry to speed your design, prototyping, research and measurement processes.

A mesh model of an incense burner from the National Museum of Korea in Rapidform XOS
A mesh model of a ceramic buddha statue in Rapidform XOS

Fast and Easy 3D Scan Data Processing

Workflows

Scan to Mesh
For archiving, animation, measurement, 3D printing and other polygon-based applications, Rapidform XOS includes a full suite of mesh processing tools. With the Mesh Buildup Wizard™, you can go through the entire scan alignment, as well as the merge and mesh optimization processes with just a few clicks.

Scan Capture & Processing
- Real-time data capture with LiveScan™
- Align and merge with Mesh Buildup Wizard™

Mesh Optimization
- Reduce data size with intelligent decimation
- Repair defects with Mesh Healing Wizard™
- Smooth and enhance
- Fill holes

Export
Save as STL, OBJ or other mesh formats for archiving, 3D printing, rendering or CAE use

Scan to Surfaces
Rapidform XOS also supports NURBS surface fitting, which is useful for creating an identical copy of scan data that does not need editing. You can use Rapidform’s powerful automatic surfacing technology to do the work for you, or take control and lay out the surface network just the way you want.

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NURBS Surfacing
- Auto Surfacing™
- Interactive surfacing

Export
Save as IGES, STEP or other surface formats for non-parametric use
Training

New User Training
World class training options are at your fingertips. Join one of our regularly scheduled training courses at a Rapidform office, or have a Rapidform expert come to your facility and train your whole team.

Ongoing Learning
Join us at Rapidform Success, our annual training conference designed to keep you at the forefront of 3D scanning technology. Keep up with the latest tech tips at support.rapidform.com

Updates & Support

New Version Releases
New version releases include major new functionalities as well as enhancements to existing functionality. These new functions are must-haves if you want to stay competitive with the latest tools and technologies. Find the latest release information at www.rapidform.com/new

Service Packs and Hotfixes
Every day, new challenges are on the horizon. We are constantly improving Rapidform software to ensure you can overcome any challenge you face. Get product updates at www.rapidform.com/product-updates

Technical Support Services
Stay productive and efficient with Rapidform technical support services. With cutting-edge tools like live web meetings and technical blogs, we devote unparalleled time and effort to your needs. Keep up with the latest technical support at support.rapidform.com

Product Enhancement Privileges
Sometimes our best new features are from you. You can submit suggestions and feature requests that help optimize your workflow, assuring that you stay efficient by making the software work for you. Submit any requests at support.rapidform.com

Rapidform XOS is very helpful to handle the large volume of scan data in this project. XOS has proved its ability to rapidly create polygon models and NURBS surfaces. I’d like to say thank you to INUS Technology for providing such a powerful and easy-to-use scan data handling tool.

Jinho Park, Senior Researcher of KAIST Cultural Technology Graduate School

A point cloud of an incense burner in Rapidform XOS

Request a Live Demo at www.rapidform.com
Easy Data Capture
Rapidform XOS works with data from all leading 3D scanners, via LiveScan™ or native file import. LiveScan™ offers real-time data capture from many 3D scanners directly into XOS, allowing you to immediately start processing data. Capturing and processing data in an integrated environment saves time and improves quality. Rapidform XOS can also open more native 3D scanner file formats than any other software, including additional information specific to each 3D scanner.

Complete Mesh Optimization
Rapidform XOS has a comprehensive set of tools to heal and optimize any mesh. Years of testing and refinement have lead to algorithms that create beautiful, high quality meshes.

- The Mesh Healing Wizard™ finds and repairs defects automatically
- Curvature intelligent hole filling recreates missing data to create watertight meshes
- Global remeshing improves mesh topology for downstream use
- Decimation reduces data size for easy handling
- One button enhancement smooths while sharpening detail

Accurate Alignment and Merging
The Mesh Buildup Wizard™ converts raw 3D scan shots into complete mesh models in five simple steps. Start by choosing the scan type, remove unwanted data, pre-align multiple scan shots, optimize the alignment and merge them into a single mesh. The wizard guides you through each step, so it’s easy to get great results every time.

Automatic NURBS Surfacing
Rapidform XOS has powerful Auto Surfacing functionality, so you can convert a polygon mesh into a lightweight surface model for use in any NURBS software. Rapidform’s new patch layout technology lets you choose between two different types of surface models: feature-following or uniform patch layout. Feature-following surface models create fewer NURBS patches for objects with well-defined features. Uniform layout models create more NURBS patches and capture complex detail with ease.

See Rapidform XOS in action at www.rapidform.com