ONU 3DLITE™

Native CAD to Low Poly FBX Files...in minutes

Creating 3D assets for real-time rendering is time consuming. Striking the right balance between visual quality, density and development cost is challenging.

Enter ONU 3DLite. We empower digital content creators to build the perfect asset in a fraction of the time. Then put those assets to use in 3D Web, AR, VR and mobile experiences.

Automatically convert native CAD into low poly FBX files in minutes. Realize up to 100x density reduction without compromising visual accuracy. Adjust the level of detail to further reduce density or increase quality. Easily identify and remove unnecessary pieces. See the result of your changes realtime.

3D CAD MODEL — CONVERT — **LOW POLY ASSET** — BUILD — ANIMATE — SEAT COLOR — **REAL-TIME EXPERIENCES**

STOP THE RETOP
NO MORE MANUAL CONVERSION AND RETOPOLOGY

	ONU 3DLite	Manual Retopology
Free Your Workstation	Tessellate CAD files on the ONU cloud while you work on your workstation	Wait and wait while your high-end workstation processes
Convert My CAD	Convert any native CAD files to poly in minutes.	Buy third-party software to convert each CAD format
Tessellate With Quality	Automatically reduce density up to 100x and maintain visual quality	Decimate density AND visual quality with your 3D modeling tool
Save Time and Money	Create lightweight meshes in minutes with our second-pass optimization tools	Spend days doing manual retopology
Retain Assembly Info	Retain part numbers and assembly hierarchies for 3rd-party system integrations	Lose all valuable assembly information during conversion
Create Multiple LODs	Automatically create multiple Levels of Detail (LODs) and choose the one that works best	You get one LOD. Choose wisely...
Share Easily	Share your work any time with anybody via a web link viewable on any browser	Peers or customers need your software to review your work in progress
Centralize and Store Safely	All of your assets in one place, the secure ONU cloud	Files are safe on artist workstations, until they're not...

ONU 3DLITE KEY FEATURES

CONVERT ANY CAD to POLY

Drag and drop native CAD files into ONU 3DLite to convert them into high-quality polygonal models. Use any CAD format, including STEP, IGES, SAT, Parasolid, Solidworks, JT, ProE/Creo, AutoCAD, CATIA, Rhino, NX.

OPTIMIZE TO YOUR SPECIFIC NEEDS

AUTOMATIC REDUCTION

As your CAD is converted, it is optimized by our proprietary algorithms. Identical parts are instanced to reduce geometry and draw calls. The result: high-quality, lightweight models with up to 100x reduction in density.

AUTOMATED 1ST-PASS OPTIMIZATION

Control the level of tessellation to meet your precise needs. Merge meshes based on common materials and create multiple LODs to find the lightest weight for your real-time rendering application while retaining great visual quality.

ADVANCED 2ND-PASS OPTIMIZATION

Easy to use tools help you quickly identify dense parts most likely to impact performance. Remove them or change their resolution in a few clicks.
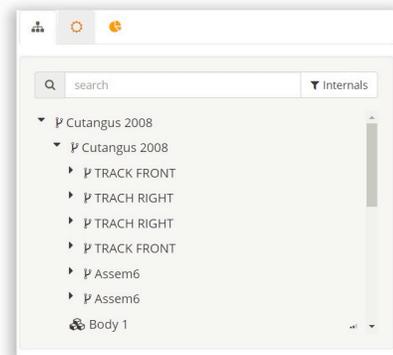
- Tree View – Displays the assembly hierarchy using original part names. Search by part name or limit the view to isolate only non-visible, internal parts that increase density.
- Sunburst - Visually organizes parts by CAD hierarchy and classifies subassemblies by density level.
- Pie Chart - Identifies similar part groupings, regardless of hierarchy, that hog your polygon budget.

ONU 3DLITE KEY FEATURES

RETAIN PART NUMBERS

ONU 3DLite retains all part numbers and hierarchies which can be referenced in your 3D experiences and integrated into other backend systems. Product management, merchandisers and ecommerce sites can display the real-time asset and link individual parts to their catalog.

EXPORT AND CENTRALIZE SHARING

Export to FBX format files for use in tools like Blender, Maya, 3DS Max, Modo, ZBrush, Keyshot, Unity and Unreal. You can even retain instancing on export. Share a link with colleagues in product management or merchandising so they can review it on their desktop or mobile. Then send to your agency to enhance the image.

CLOUD-BASED

No need for high-end workstations and PC-based software. ONU 3DLite is the only cloud-based, CAD conversion and optimization tool on the market. Manage and host all your visuals in one place with accessibility from any web browser. Our AWS infrastructure ensures the ultimate in uptime, redundancy, and security.

ONU 3DLITE™