



# POINTKIT

## Tools for Point Cloud and Mesh Processing

Use PointKit to cleanup, edit and process all kinds of 3D scan data. The tools are purpose built to work with large and noisy datasets that 3D capture devices generate and come with many features to automate alignment, merging and inspection of 3D scan data.

PointKit opens up Polyga's mesh processing technology so that anyone can use our algorithms with data from desktop 3D scanners to large scale LIDAR datasets.

## ONE PLATFORM | THREE SOLUTIONS



### Desktop Application

Powerful and easy to use Windows application for post-processing point clouds and meshes from any kind of 3D capture device. Desktop 3D Scanners, Laser Scanners, 3D Cameras, Photogrammetry, and LIDAR.



### Online Web Application

Powerful cross platform viewer and sharing tool for 3D point cloud and mesh data. View and present your 3D data to any device with a modern web browser including mobile devices.



### SDK

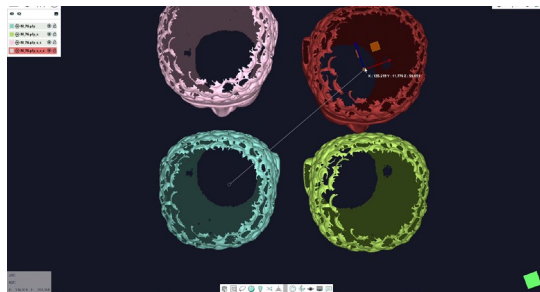
Automate your processing of meshes and point cloud capabilities in a cross platform SDK. Access all the capabilities and features of the pointkit platform in an easy to use API.

# What PointKit can do?



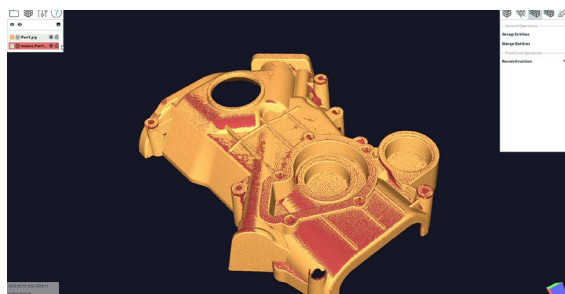
## Clean Noisy Data

- Remove Outliers
- Smoothing and Erosion
- Mesh and Point Cloud Decimation
- Remove Irregular Triangles
- Unify Duplicate Points



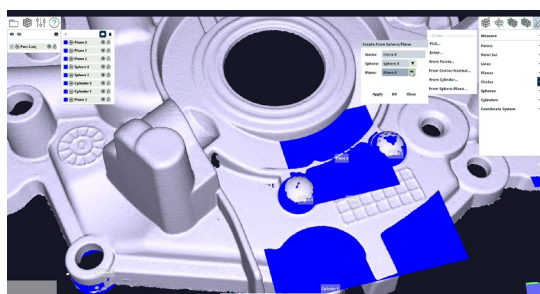
## Tackle Hard Alignment Problems

- Precisely Move, Rotate and Scale Meshes
- Powerful ICP alignment tools
- Use selected geometry features for alignment
- Create new coordinate systems



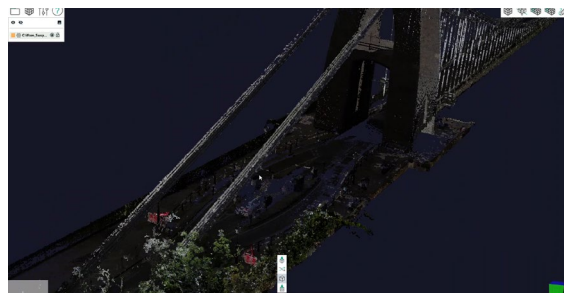
## Grouping, Merging and Meshing

- Group, merge and split large data sets
- Optimize meshes and fill holes
- Convert Point Cloud to Meshes



## Measurement Tools

- Measure distances between features
- Fit many types of geometric primitives
- Surface Deviation Analysis



## Wide Range of Data Formats

- Supported Formats: PLY, STL, OBJ, 3D3, E57, ASC, CSV, PTX, PLG, GLTF, GLB, PTS
- Automate the processing of scan data
- Colors and Texture Support

## INDUSTRIAL APPLICATIONS



Research and  
History Preservation



Archeology



BIM



Reverse  
Engineering



3D Printing



Visual Effects



Manufacturing



AR/VR