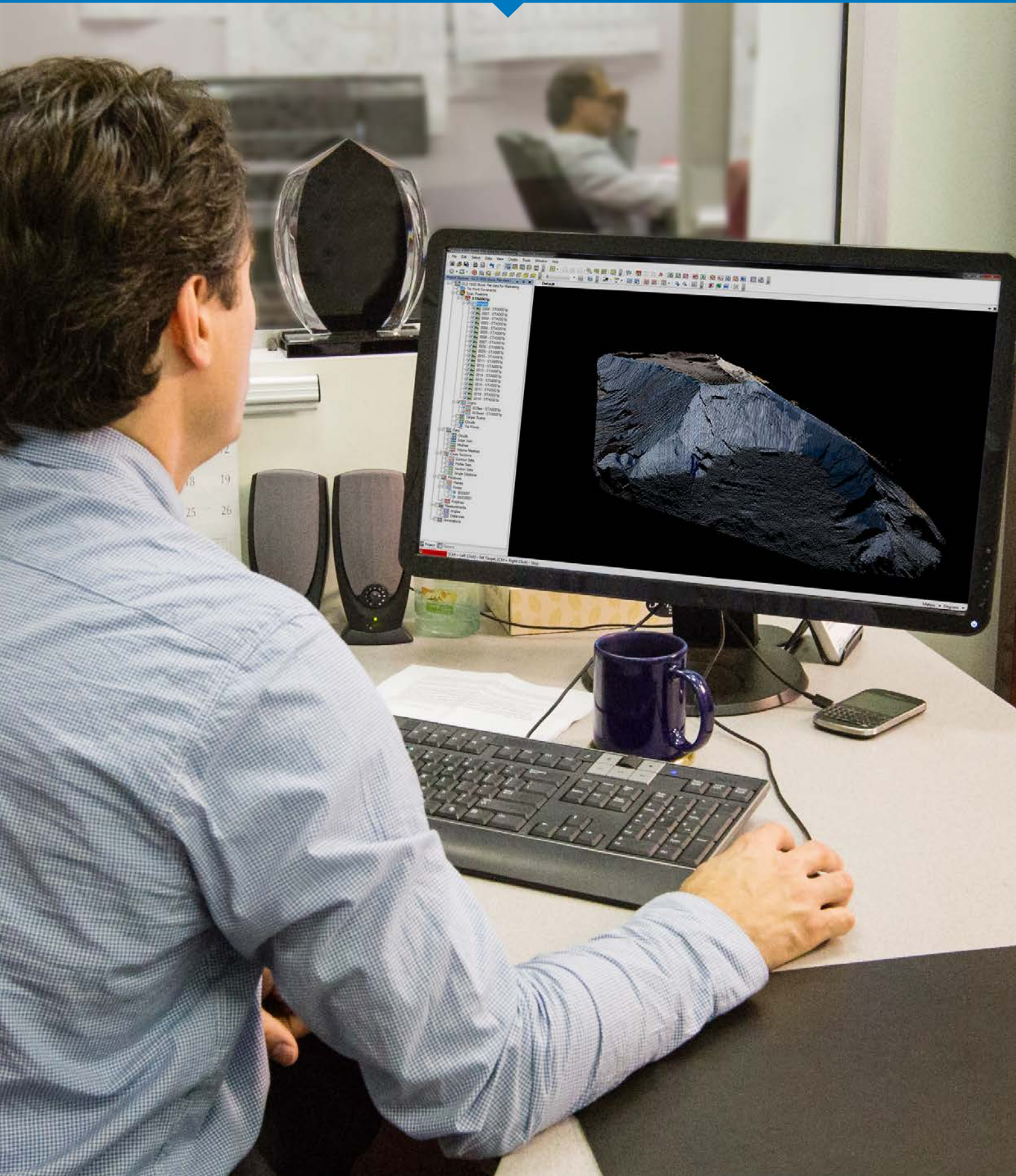




SCANMASTER

EASY-TO-USE 3D LASER
SCANNING SOFTWARE





Office Software for 3D Point Cloud Data

- High-performance Point Cloud Engine
- Cloud-to-Cloud Registration
- Industry Standard File Import/Export
- Volume Calculation
- Automatic Edge Extraction
- Free (Basic) Viewer Mode

With ScanMaster's operator-friendly interface, scanning professionals quickly become more proficient in their execution of laser scanning projects. ScanMaster enables professionals to efficiently collect point cloud data, then process and create final deliverables that exceed client expectations.

After fieldwork is complete, ScanMaster supports viewing, smart processing and export of point cloud data to leading, design, analysis and modeling applications. For those project stakeholders that have an interest in viewing point cloud data and conducting basic measurements, a free viewer mode is available.

Quality Rendering: High performance point cloud engine radically improves performance, saving valuable time.

Cleanup and Region Selection Tools: Intelligent filtering of isolated measurements from point clouds and region select tools automate the cleanup of noisy data.

Polylines: Specific tools for creating and editing polylines for quickly producing deliverables.

Volumes: Flexible volume report calculation. Calculate based on mesh-to-mesh or mesh-to-plane surface comparison. Also extract volume region boundary area, volume region centroid.

Edges: Automatically extract edge sets from scans. Merge sets to quickly draft complex building shapes.

Planes: Edge extraction from plane intersections enable precise edges to be produced at the intersection of two or more planes.

Regions: An essential tool for data cleanup, Region Selection is extremely valuable for isolation of specific surfaces. Great for QA/QC of grading plans, it's also useful to isolate other surfaces such as roadways and building walls, floors, and ceilings.

Orthophotos: Export orthophotos for rapid digital documentation.

| File | ScanMaster | ScanMaster Viewer |
|---|------------|-------------------|
| New Project | • | • |
| Open Project | • | • |
| Close Project | • | • |
| Save Project | • | • |
| Save Project As | • | • |
| Import GLS-1000/1500 Project Files | • | • |
| Import GLS-2000 Project Files | • | • |
| Import GLS-2000 Station Files | • | • |
| Import Autodesk Files (.DXF/.DWG) | • | • |
| Import Coordinate Point Files (.TXT) | • | • |
| Export Autodesk Files (.DXF/.DWG) | • | - |
| Save Screenshot | • | • |
| Print | | |
| Page Setup | • | • |
| Print Preview | • | • |
| Print | • | • |
| Edit | | |
| Undo / Redo | • | • |
| Delete Objects | • | • |
| Rename Objects | • | • |
| Object Properties | • | • |
| Object Tables | • | • |
| Select | | |
| Selection Mode (Data / Object) | • | • |
| All | • | • |
| None | • | • |
| Invert | • | • |
| Point | • | • |
| Rectangle | • | • |
| Polygon | • | • |
| Region | • | - |
| Data | | |
| Coloring by Elevation / Image / Intensity / Layer / Normals / Regions | • | • |
| Contrast Adjustment | • | • |
| Gamma Correction | • | • |
| Show / Hide Data | • | • |
| Delete / Restore Data | • | • |
| Slice | • | • |
| Occlude | • | • |
| GLS Control | | |
| Connect to Device (Wi-Fi / USB) | • | • |
| Live Video Control | • | • |
| Capture Images | • | • |
| Capture Scans | • | • |
| Capture Target Scans | • | • |
| Pause / Resume / Cancel Scanning | • | • |
| Show Device Properties | • | • |
| Show Device Tasks | • | • |
| GLS-1500 Long Support | • | • |
| Layer | | |
| Create Layer | • | • |
| Edit Layer | • | • |
| Target Scans | | |
| Import | • | • |
| Export | • | - |
| Scan Positions | | |
| Create Scan Position | • | • |

| View | ScanMaster | ScanMaster Viewer |
|---|------------|-------------------|
| Navigation (Sphere / Cube / Target Scan) | • | • |
| Projection (Parallel / Perspective) | • | • |
| Set Target | • | • |
| Zoom (Up / Down) | • | • |
| Zoom (Extents / Selection / Top / Bottom / Front / Back / Left / Right) | • | • |
| Elevation View | • | • |
| Show / Hide Axes / Information / Bounds / Grid / Legend | • | • |
| Show / Hide Tables | • | • |
| Show / Hide Toolbars | • | • |
| Show / Hide Windows | • | • |
| Save Camera | • | • |
| Import Camera | • | • |
| Create Multiple Views | • | • |
| Point Density Control | • | • |
| Point Size Control | • | • |
| Customize Mouse Buttons | • | • |
| Window | | |
| Close / Close All | • | • |
| Collapsed / Docked / Floating | • | • |
| Reset Layout | • | • |
| Images | | |
| Import | • | • |
| Export | • | • |
| Scans | | |
| Color from Images | • | - |
| Color from Images (use other Scan Positions) | • | - |
| Clear Image Colors | • | - |
| Filter Noise | • | - |
| Purge Deleted | • | - |
| Recover Deleted | • | - |
| Import | • | • |
| Import FARO (.FLS) files | • | - |
| Import E57 Files | • | - |
| Export | • | - |
| Export E57 Files | • | - |
| Calculate Normals | • | - |
| Resample | • | - |
| Tie Points | | |
| Create Tie Point from Target Scan | • | • |
| Draw Tie Point | • | - |
| Set Position | • | - |
| Tie Point Constraints | | |
| Create Tie Point Constraint | • | - |
| Select Tie Points | • | - |
| Registration | | |
| Register with Occupation/Backsight | • | - |
| Register with Tie Points | • | - |
| Auto Registration by Geometry or Description | • | - |
| Clear Registration | • | - |
| Resection | • | - |
| Cloud-to-Cloud Registration | • | - |
| Measurement | | |
| Measure Angle | • | • |
| Measure Distance | • | • |

| Clouds | | |
|---|---|---|
| Create cloud (up to 1 million points) | • | - |
| Filter Noise | • | - |
| Resample | • | - |
| Purge Deleted | • | - |
| Recover Deleted | • | - |
| Import | • | - |
| Import FARO (.FLS) Files | • | - |
| Import E57 Files | • | - |
| Export | • | - |
| Export E57 Files | • | - |
| Color from Images (use other Scan Positions) | • | - |
| Clear Images Colors | • | - |
| Calculate Normals | • | - |
| Edge Set | | |
| Extract Edge Set from Scan | • | - |
| Merge Edge Sets | • | - |
| Clear | • | - |
| Re-extract | • | - |
| Explode | • | - |
| Meshes | | |
| Create Mesh | • | - |
| Color from Images (use other Scan Positions) | • | - |
| Filter | • | - |
| Resample | • | - |
| Import | • | - |
| Export | • | - |
| Volume Meshes | | |
| Create Volume Mesh | • | - |
| Extract Bounds | • | - |
| Extract Centroid | • | - |
| Import | • | - |
| Export | • | - |
| Polylines | | |
| Draw Polyline | • | - |
| Append Vertex | • | - |
| Reverse | • | - |
| Merge | • | - |
| Split | • | - |
| Flatten | • | - |
| Trim | • | - |
| Fit Edge | • | - |
| Modify | • | - |
| Annotation | | |
| Annotation | • | • |
| Set Position | • | • |
| Edit Annotation Style | • | • |

| Observations | ScanMaster | ScanMaster Viewer |
|--|------------|-------------------|
| Observation | • | - |
| Contour Sets | | |
| Extract Contour Set | • | - |
| Clear | • | - |
| Re-extract | • | - |
| Explode | • | - |
| Profile Set | | |
| Extract Profile Set | • | - |
| Clear | • | - |
| Re-extract | • | - |
| Explode | • | - |
| Section Set | | |
| Extract Section Set | • | - |
| Clear | • | - |
| Re-extract | • | - |
| Explode | • | - |
| Single Section | | |
| Extract Single Section | • | - |
| Clear | • | - |
| Re-extract | • | - |
| Explode | • | - |
| Planes | | |
| Fit Plane | • | - |
| Intersect | • | - |
| Zoom Back / Bottom / Front / Left / Right / Top | • | - |
| Points | | |
| Input Coordinates | • | • |
| Draw Point | • | • |
| Set Position | • | • |

| System Requirements | |
|---------------------|--|
| Processor Speed | Intel® Core™ 2 Duo at 2.00 GHz |
| RAM | 1 GB |
| Operating System | Windows 7, Vista, XP |
| Video Card | Discrete video card with 128 MB of memory and full support for DirectX 9.0c, vertex and pixel shaders v2.0 |
| Wi-Fi | 802.11g |
| USB | USB 2.0 |
| Recommended System | |
| Processor Speed | Intel® Core™ 2 Duo at 2.66 GHz |
| RAM | 2 GB+ |
| Video Card | NVIDIA or ATI discrete video card with 256 MB+ of memory |



For more information:
topconpositioning.com/scanmaster

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