

Quick Terrain Modeler™

3-D Visualization and Analysis Software

Quick Terrain Modeler Fast Facts:

- Formerly called QT Modeler. Originally invented at Johns Hopkins University's Applied Physics Lab (APL).
- Created and optimized for 3-D LiDAR, Synthetic Aperture Radar (SAR), and other 3-D sensor survey data.
- Builds large models in minutes (up to 200 Million vertices), loads existing models in seconds, and navigates through models in real time.
- Fuses multiple data types (both 3-D and 2-D) into a single view or model.
- Very short learning curve.
- Requirements: Windows XP/2000, 384+ MB RAM, Pentium III 850MHz, Graphics Board with Open GL Driver.

Quick Terrain Modeler Features:

- **Model Types:** Build both point clouds and gridded surface models. Able to display both simultaneously.
- **DEM Editing Tools:** Manually remove terrain features with area smoothing tools. Synchronize model altitudes. Georegister models. Align multiple scans from Optech ILRIS 3-D laser scanners. Cut, crop, and delete points in 3-D models.
- **Analytical Tools:** Change detection, line of sight (US version only), flood simulation, slope analysis, volume analysis, shadow maps, contour lines, terrain cross sections, custom QA/QC reporting.
- **Shape File Support:** Overlay 2-D and 3-D shape files, import shape files as mensuration lines or selection areas, export mensuration lines and selection areas as shape files, export model perimeters as shape files, export contour lines as shape files.
- **Visualization Tools:** Custom altitude coloration, custom lighting settings, 2-D and 3-D modes, tile maps, altitude and change detection legends, customizable markers, elevation exaggeration mode.
- **Import Model Data:** ASCII XYZ, LAS, GeoTIFF DEM, ESRI Grid ASCII, Floating Point, DTED, Binary, batch functionality.
- **Export Model Data:** ASCII XYZ, Binary, GeoTIFF DEM, ESRI Grid ASCII, batch functionality.
- **Export 2-D Imagery:** 8 types of GeoTIFF (e.g., altitude colored, hillshade, etc.) as well as oblique imagery (TIF, BMP).
- **Overlay photos:** Quickly drape georegistered orthorectified, orthographic, or oblique imagery on 3-D DEM.
- **Mensuration:** Measure point locations and line segments, export terrain cross sections.
- **AVI Creation:** Quickly create custom AVI fly-throughs for playback on any standard media player.

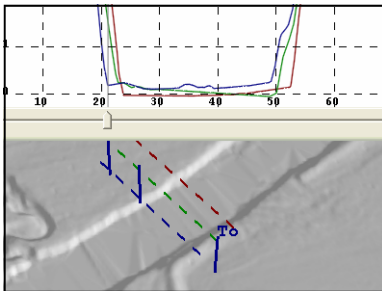


Figure 1: Basic Mensuration - multiple cross sections of terrain.

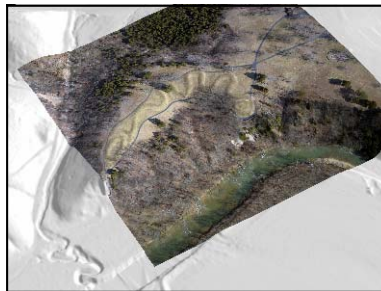


Figure 2: Overlay of aerial photograph on gridded surface model.

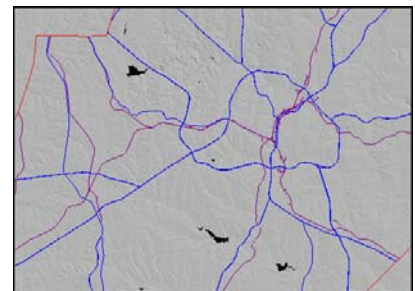


Figure 3: Overlay of shape files on the DEM. These shape files are GIS transportation layers..

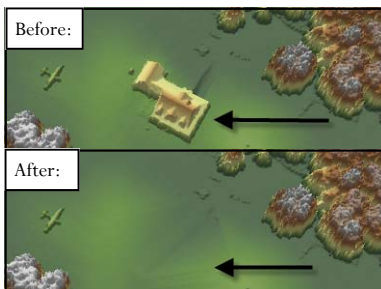


Figure 4: DEM Editing - Removing a house from the DEM with the area smoothing tool.

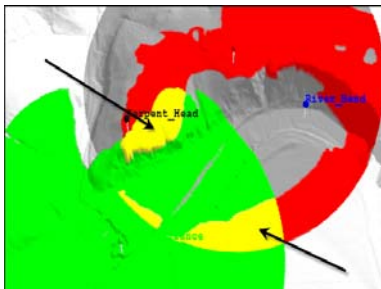


Figure 5: Line of Sight analysis with range limitation enabled shows viewshed overlap in yellow.

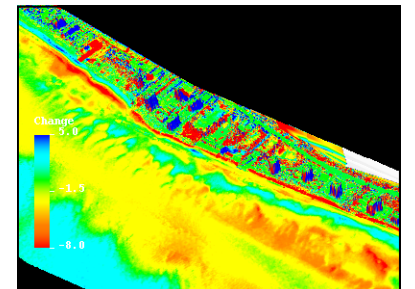


Figure 6: Change detection map quickly highlights changes to terrain.

APPLIED IMAGERY

Please Contact:

Applied Imagery
8070 Georgia Avenue
Silver Spring, MD 20910 USA

Phone: 301 589 4004
Fax: 301 589 4005
Email: info@appliedimagery.com
Web: www.appliedimagery.com