



Flexibility

Terrain Tools® is a software toolkit for mapping and land development. Versatile and easy to use it includes functions for surveying, coordinate geometry, image manipulation, digital terrain modeling, site grading, design, visualization and report generation.

Terrain Tools® is used everyday by 1000's of civil engineers, surveyors, architects, geoscientists and planners. Applications include commercial and residential site development, landfills, dams, mines and pipelines.

Simplicity

Terrain Tools is straight forward and easy to use! It is not limited to computer specialists or GIS/CAD operators. We recognize that most civil engineers and professionals spend the bulk of their time in the field, not in front of a computer screen. That's why we've put a great deal of effort into keeping our software simple and intuitive. When it comes to menus, dialogs, modes, buttons and options our philosophy is "the fewer the better".

Performance

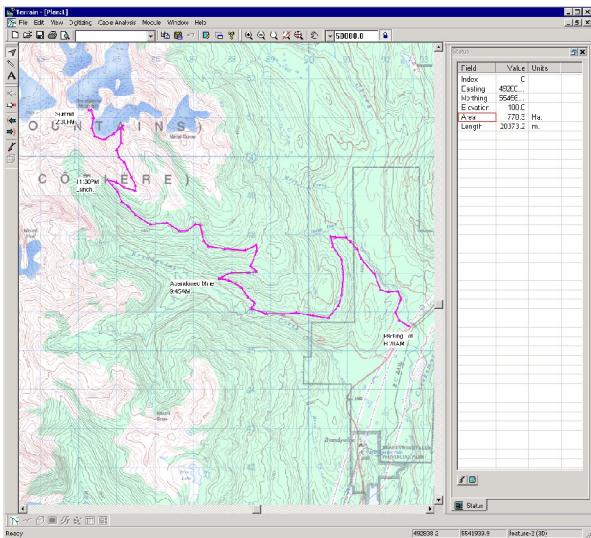
Terrain Tools delivers power without complexity. It has been used on very large civil projects and will comfortably process LIDAR data sets with millions of points.

Compatibility

Terrain Tools is a clean, simple and standalone application. Information can be moved seamlessly between other applications such as Microsoft Office®, AutoCad® and ArcView® using industry standard file formats such as DWG, Shape and LandXML.

A free viewer is available so you can share your drawings, site plans and maps with anyone.





Survey and Map Data Sources

Maps can be quickly created using information from a variety of industry standard formats such as Microsoft Excel®, ASCII, DWG or ArcView® shape, USGS DEM, and LandXML. Bitmap images can also be included in JPG, BMP or TIF formats.

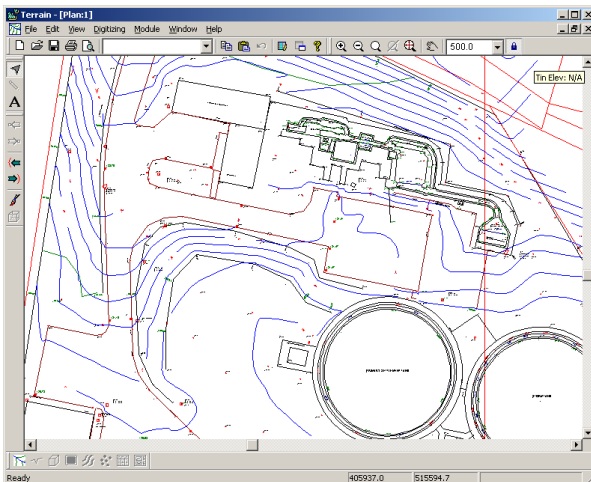
Total station data can be included with automatic control of linear features, breaklines and symbology.

Coordinate and attribute information is entered by mouse, keyboard, or digitizing tablet or downloaded directly from a GPS device.

Conversion between Lat/Lon and Cartesian coordinates in a variety of map projections such as UTM, State Plane (SPC83 or SPC27), Albers Equal Area, Lambert Conformal Conic, Polar Stereographic and Polyconic is provided.

Datum conversions are possible using grid shift files (NADCON and Canadian NTv2).

Large data sets such as LIDAR can be easily imported, displayed and modeled in 3D.



Mapping and Drafting

Using a small but powerful set of operations, maps can be quickly assembled.

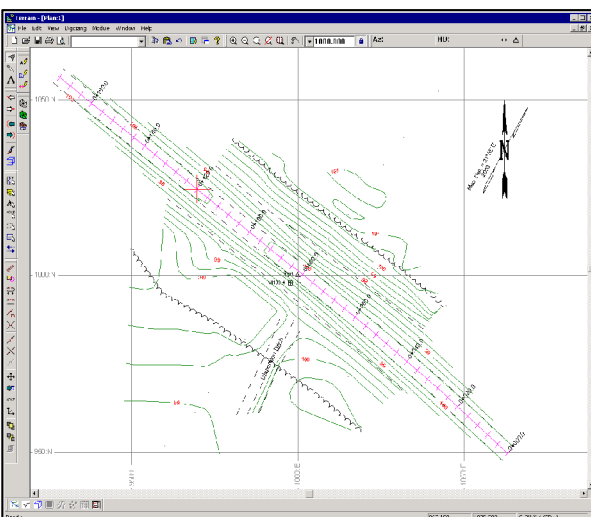
A Terrain file is made up of a collection of features e.g. contour lines, polygons, symbols etc. Features can be imported from external files or simply drawn on the screen using the mouse. Once created, features can be easily selected, edited, formatted and manipulated.

Groups of features can be selected by name, coordinate range, or with the mouse. Once selected, they can be collectively formatted and manipulated.

Control of feature color, line types, symbols and hatching is provided. A standard library of line types and symbols is available. Custom line types, symbols and hatch types can be created and saved for future use.

Features can be moved, scaled and rotated. Points can be inserted, deleted or re-positioned.

Labels can be added using the mouse or automatically generated from the feature geometry e.g. distances, bearings, stations etc. Font, size, and rotation angles are fully user controllable.



Functions by Product	Recreational	2D	3D
Basic mapping and CAD functions.	✓	✓	✓
Import of TIF, JPG, BMP, SHP, Mr.SID, ECW, ASCII, MS Excel, DXF, DWG, USGS DEM, SDTS, Land XML	✓	✓	✓
Export to ASCII, DWG, DXF, SHAPE, TIF, JPG, BMP and LandXML.	✓	✓	✓
Import from GPS.	✓	✓	✓
Extended CAD functions; curves, buffering, and clipping.		✓	✓
Coordinate Transformations; conversion between Lat/Lon, UTM, State Plane. Various projections and datum conversions such as NTv2 and NADCON.		✓	✓
Digitizing – tracing areas and lengths from scaled maps.		✓	✓
Multi-Plot – creation of output sheets, title blocks, legends, north arrows etc.		✓	✓
Profiles – display of profiles.			✓
Profile Drafting & Design – provides editing in the profile window.			✓
Surface Generation & Contouring – includes TIN generation and display.			✓
Volume Calculation & Reporting – volumes and surface area calculations.			✓
3D Window – perspective display of 3D features and TIN surfaces.			✓



Engineering an easier way

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