

TerrainTools® 3D

3D Mapping an Easier Way

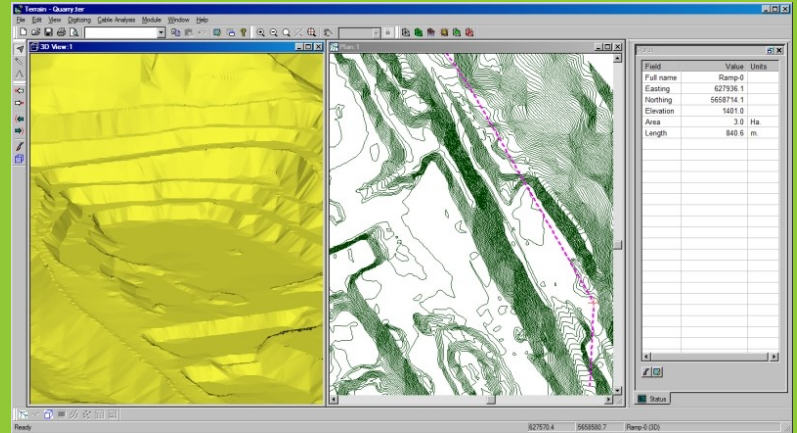
SIMPLE, AFFORDABLE, EASY.

Terrain Tools® 3D is a software toolkit for mapping, terrain modelling 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 every day by thousands of civil engineers, surveyors, architects, geoscientists and planners. Applications include commercial and residential site development, landfills, dams, mines and pipelines.

KEY BENEFITS

- ✓ Quick and easy.
- ✓ Affordably priced.
- ✓ Minimal training.
- ✓ Handles very large point sets such as LIDAR.
- ✓ AutoCAD® compatible.
- ✓ Outstanding technical support.



SIMPLICITY

Terrain Tools is straight forward and 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

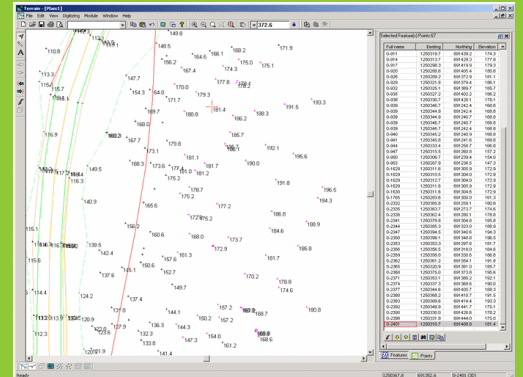
Stand alone or with existing CAD-software, Terrain Tools will integrate into your work flows. Information can be moved seamlessly between other applications such as Microsoft Office®, AutoCad® and ArcView® using industry standard file formats such as DWG, Shape and LandXML.



KEY FEATURES

IMPORT/EXPORT AND COORDINATE SYSTEMS

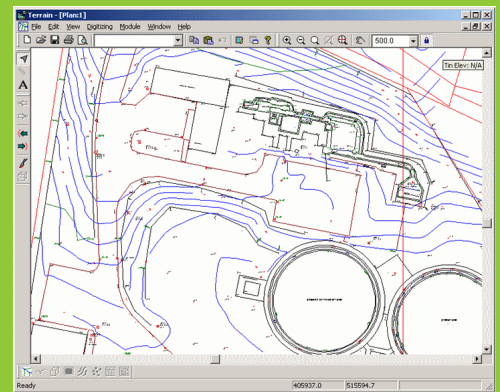
- Import: TIF, JPG, BMP, ASCII, SHAPE, MS Excel, DXF, DWG, USGS DEM, SDTS, MrSID, ECW, GPX, MapInfo, LandXML, ARC Grid, KMZ, MIF/MID and GML.
- Export: ASCII, DWG, DXF, BMP, JPG, TIF, SHAPE, LandXML and KMZ.
- Direct interface to Garmin GPS devices.
- Thinning and coordinate transformation on import.
- Assignment of symbology, breaklines, and modelled properties on import.
- Support for coordinate systems including Lat/Lon, UTM, State Plane, Albers Equal Area and many others.
- Conversion between coordinate systems and datums using NADCON or NTV2 grid shift files.



Survey Points and Breaklines

TERRAIN: MAPPING

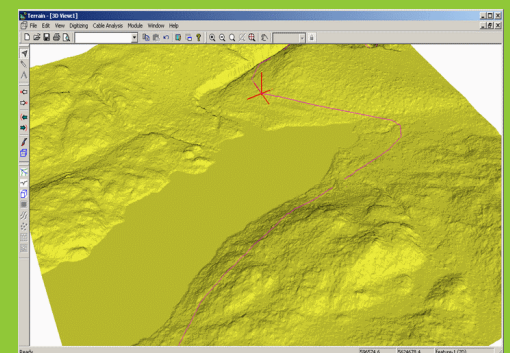
- Creation and plan display of linear or point features.
- Entry of features by coordinate or bearing and distance.
- User defined attributes.
- Calculation of areas, lengths, bearings and slopes.
- Feature formatting (annotation, linetypes, symbols hatching), and manipulation (move, size, rotate, break, join etc.).
- Curves, buffering and clipping.
- Feature/point densification and simplification.
- User definable symbols, linetypes and bitmap hatching.
- Image cropping, resolution control and rubber sheeting.
- Creation of output sheets including plan, profile, title blocks, legends etc.



Industrial Site Plan

TERRAIN: SURFACE MODELLING

- TIN surface generation.
- Triangle control using breaklines, boundaries, void areas and maximum triangle side length.
- Surface shading by elevation, slope and aspect.
- Slope vector display.
- Surface to surface volume, surface area and average slope calculations.
- 3D display of features and TIN surfaces.

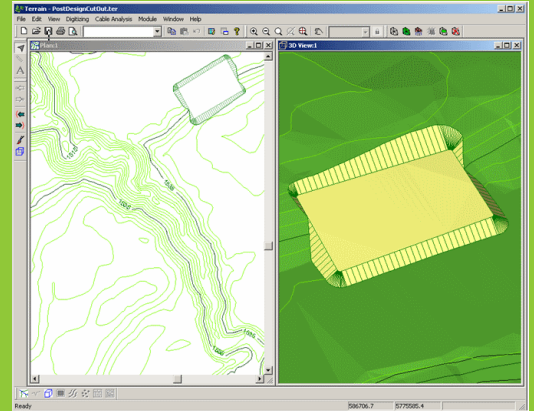


LIDAR Surface Model

KEY FEATURES

TERRAIN: PROFILES AND DESIGN

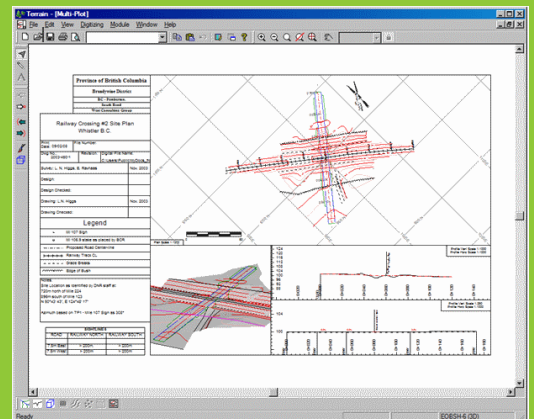
- Creation of profiles by draping over a surface model.
- Editing features in profile or cross section.
- Display of projected and intersected features in profile.
- Projection of features on multiple surfaces eg. sub-surfaces
- Grading design for polygonal shapes such as ponds, pads, pits etc.
- Merging TIN surfaces.



Grading Design

TERRAIN: OUTPUT & REPORTING

- Creation of plan/profile sheets with automatic legends, title blocks, logos etc.
- Export coordinate and attributes to Microsoft Excel.
- Overlay design or survey information on Google Earth.



Plan, sections and 3D views

SYSTEM REQUIREMENTS:

- Windows XP, Vista, Windows 7, 8, 8.1
- 64 Mb system RAM (128MB recommended)
- 800 x 600 resolution (1024 x 768 recommended)
- M256 colors (16 bit, thousands of colors, recommended)
- 70 Mb disk space (full installation including samples)
- Optional digitizer (must be Wintab compatible)

FUNCTION COMPARISON

TerrainTools®

	Field	Forestry	Rec (2D)	3D
TERRAIN FIELD BASE				
Windows CE handheld - field note entry, plan, profile display.	✓			
Windows CE handheld - cable logging profiles and deflection calculation.	✓			
Windows CE handheld- interface to laser guns (RS232 and Bluetooth).	✓			
TERRAIN BASE				
Basic mapping and CAD functions.		✓	✓	✓
Import of TIF, JPG, BMP, SHP, Mr.SID, ECW, LAS, GPX, GML,ASCII, MS Excel, DXF, DWG, USGS DEM, SDTS, Land XML, DGN		✓	✓	✓
Import from GPS		✓	✓	✓
Export to ASCII, DWG,DGN, DXF, SHAPE, TIF, JPG, BMP and LandXML.		✓	✓	✓
Multi-Plot – creation of output sheets, title blocks, legends, north arrows etc		✓	✓	✓
Digitizing – tracing areas and lengths from scaled maps.		✓	✓	✓
Extended CAD functions: curves, buffering, and clipping		✓	✓	✓
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.		✓		✓
Image Adjustment – rubbersheeting images.		✓		✓
TERRAIN FORESTRY				
Survey – traverse note entry, adjustment and display.		✓		
Cable Analysis – payload and deflection calculations.		✓		



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