Carlson Survey



Surveyors' #I Software Choice

- Get full tool kit everything from network least squares to surface modeling
- Work seamlessly between office and field
- Establish company-wide design styles
- Create GIS links & exchange Esri® data

Choose your platform – Carlson Survey works on:

- AutoCAD® versions 2010 to current
- IntelliCAD® (built-in)

Or choose **Carlson Survey OEM** with built-in engine Powered with Autodesk Technology

Get the Power of Carlson Field-to-Finish

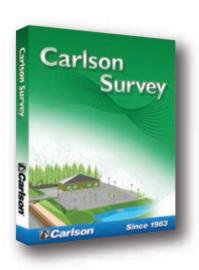
Carlson Survey together with Carlson's popular data collection software options, SurvCE, SurvPC and Field, provide powerful, effective and accurate Field-to-Finish:

- Symbols, points and linework are drawn automatically in Carlson Survey
- Drawings on SurvCE, SurvPC and Field process perfectly in Carlson Survey

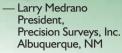
Find Out More NOW!

Call or visit Carlson Software: **800-989-5028**

www.carlsonsw.com















Twist to 3D view

Autodesk^{*}

AUTODESK
Authorized Developer



*IntelliCAD is a robust, DWG-compatible CAD platform that every CAD developer can build upon



Carson Survey — Connects to Most Manufacturers' Proprietary Hardware and Software

Top New Features

Carlson Cloud: Transfer files and messages to SurvCE users in the field

Geodetic Mapping: Calcs for geodetic angles, distances and areas

Annotative Text/Points: Auto resize for drawing scale.

Lock Points: Lock selected points in the coordinate database to prevent modifications

Field-to-Finish: New pipe network feature coding **Google Earth:** Added export for text, images and

surfaces and import for points with photos

Survey Commands

- Data Collection Interfaces: Upload and download to popular data collectors
- Traverse Adjustment: Spreadsheet editor for raw data with graphics and processing for traverse adjustments
- SurvNET: Advanced network least-squares for total station, GPS and level data
- Field-to-Finish: Draw points with styles and in point groups set by point descriptions and draw linework by several flexible methods
- Field-to-Finish Inspector: Inspect all field-to-finish elements, see description source and re-draw based on descriptions edits
- COGO: Streamlined inverse, traverse, sideshot, intersections, interpolation, translate, rotate, scale and align
- Coordinate Transformations: Transform coordinates and screen entities between lat/lon and grid projections as well as local to local by Helmert and least-squares methods
- Deeds: Enter deed by description, read deed data from deed file, deed reports, deed correlation and generate legal description from drawing
- Cut Sheets: Create custom cut sheet reports with reference grades and station-offsets

Surface Commands

- Build Surfaces: By triangulation or rectangular grids
- Contouring: One step triangulate and contour from 3D ensities as well as contouring from surface files
- Surface Manager: Change surface display properties and adjust surface functions to add and remove points and breaklines and swap edges
- Volumes: Earthwork volumes between triangulation or grid surfaces
- Pad Design: Tie cut/fill slopes from pad perimeter to surface, build pad surface, calculate and balance volumes, and edit pad parameters

Centerlines

- Design and Edit Centerlines: Design or input alignments on screen or in dialog with graphics
- Label Stations and Offsets: Annotate station and offsets along centerline and at selected points
- Calculate Offsets: Reports stations and offsets for selected points along centerline
- Create Offset Points: Create points at specified stations and offsets
- Spirals: Flexible handling of the most complex spiral curves including "spiral-only" elements going arc-spiral-arc, arc-spiral-line and line-spiral-line

Profiles

- Create Profiles: From surfaces, screen entities, points on conterline, etc.
- Quick Profile: One step profile creation with real-time update while adjusting centerline
- Input-Edit Profiles: Enter profile data in dual spreadsheet and graphic window, and design in reference to controlling profile grade points
- Draw Profiles: Draws profiles on grids or plan-profile sheets with auto-updating based on edits
- Profiles To 3D: Create points and 3D polylines from profiles

Points

- Import/Export: User-defined import and export of point data along with conversions with specific other formats
- Draw Points: Draw points with settings for symbols, layers and styles
- Point Groups: Point group manager to define sets of point by filters
- Coordinate File History: Tracks all changes to points with report and undo functions
- Fix Point Label Overlaps: Finds point label overlaps with rule options to fix automatically
- Point Tools: Utilities for modifying point labels such as move with leader, twist and resize

Area/Layout

- Label Areas: Customized area label styles and several methods to select areas to label
- Size Areas: Sliding side area, hinged area, area radial from curve and bearing area cutoff
- Lot Network: Commands for subdividing a site into lot and ROW areas. Dynamically updates areas for any changes to boundaries. Includes ability to label linework and areas and to draw setback boundaries
- Lot Manager: Lot definitions by point numbers with functions to create lots, conduct map check for closure, edit in spreadsheet with graphics, report lots and draw lots
- Offsets, Intersection and Cul-de-Sacs: Layout for ROW and EOP linework

Annotation

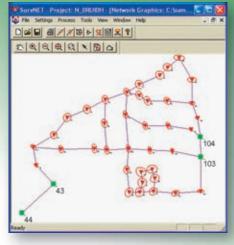
- Angle & Distance Labels: Flexible routines to label linework in all possible layout combinations plus available rules to automatically fix label overlaps and revise labels when entities move
- Curve Labels: Label curve data in stack, along arc or in table
- Survey Text: Routines to create typical plat labels such as offset and building dimensions
- Linetypes: Draw special linetypes

GIS Commands

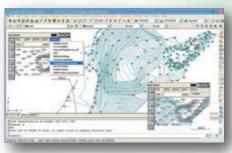
- GIS Data: Input, edit, query, report, label and inspect database data attached to drawing entities
- ESRI: Import/Export feature data by Esri MSC or SHP
- Geo-Referenced Images: Place geo-referenced images into the drawing
- Place Camera Symbol/Image: Draw a camera symbol with an attached image

General

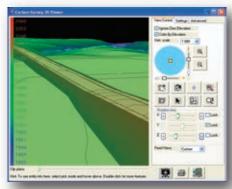
- Coordinate Systems: 100s of projections including SurvCE
- CSLReport Formatter: Create customized, professional reports
- Symbol Library: Hundreds of 2D and 3D symbols
- Project Setup: Flexible data storage methods
- Drawing Explorer: Manage and access project data files
- Drawing Cleanup: Fix common drafting errors
- Drafting Enhancements: Handy tools for working in Autocad® such as Join Nearest, Shrinkwrap Entities, Polyline Utilities, Drawing Inspector, Layer Inspector and Twist Screen
- Data Compatibility: Supports industry standard LandXML and scores of specific data conversions
- Document Management: Use Data Depot for sharing and archiving files
- CAD Standards: Draw items with standardized properties



SurvNet traverse network with error ellipses



Contour in both Carlson Survey and SurvCE



Carlson Survey 3D viewer image

