SURVEY



Surveyors' #1 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 2007 to current
- IntelliCAD® (built-in)
- Or choose Carlson Survey AutoCAD Embedded with the AutoCAD OEM engine built-in

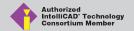


"Carlson works because their developers come from a survey background. I find it has the right kind of thought process – the way it leads you through [the survey process] is exactly the way a surveyor thinks."

Stewart Bazeley, Baypoint Surveys, Bournemouth, Dorset, U.K.



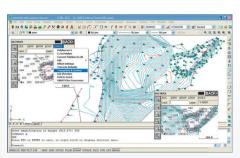




Carlson BREAK NEW GROUND

Top New Features

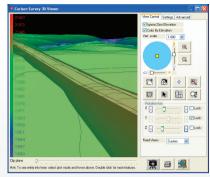
- Carlson Cloud: Transfer files and messages to SurvCE users in the field
- Geodetic Mapping: Calcs for geodetic angles, distances and areas
- Annotative Text/Points: Auto resize for drawing scale.
- Lock Points: Lock selected points in the coordinate database to prevent modifications
- Field-to-Finish: New pipe network feature coding
- Google Earth: Added export for text, images and surfaces and import for points with photos



Contour in both Carlson Survey and SurvCE

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SurvNet traverse network with error ellipses



Carlson Survey 3D viewer image

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 centerline, 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

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

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

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