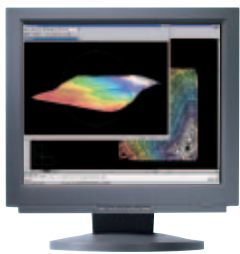


autodesk®

# 2005

## Save Time and Money by Streamlining Data Collection in the Field

Accessing critical data right from the field makes data collection faster and smarter, saving you both time and money. With **Autodesk® Survey 2005**, you can download or upload information using a wide range of industry-standard data collectors, survey instruments, and GPS receivers. Extending the functionality of Autodesk® Land Desktop, Autodesk Survey helps you automatically generate drawings from field data in the AutoCAD® environment. This streamlines data collection and helps you to share it with civil engineering, GIS, and land-planning professionals.



Work smarter and faster with Autodesk Survey 2005 by eliminating numerous steps and keystrokes, simplifying data collection, and seamlessly working with industry-standard data collectors, survey instruments, and GPS receivers.

### Generate Drawings and Analyze Data More Efficiently

Keying in less data manually saves you time and reduces errors. Autodesk Survey works with Autodesk Land Desktop to automatically create linework, points, symbols, and terrain model breaklines directly from your field survey data. It connects field codes to create lines and curves on layers you define; automatically adds description keys when you add points to project databases; and uses linework as breaklines when generating terrain models. After you complete your design, field crews can transmit proposed grade points back to the data collector for stakeout.

### Enhance Data Collection and Communication

Eliminate costly translation errors. Automatically create DWG files in Autodesk Survey, so you never have to worry about translating between the data and the drawing. You can communicate with more survey instruments than ever—including data collectors, total stations, GPS receivers, and digital lasers—and can convert ASCII and coordinate data

to and from a wide range of formats. Plus Autodesk Survey has tabular input with fieldbook creation and editing tools. Autodesk Survey features new support for a wide variety of survey equipment via Carlson Connect.

### Get the Benefits of Autodesk Land Desktop 2005

Autodesk Survey is a proven technology that you can depend on, built on the industry-standard AutoCAD foundation. Autodesk Survey is a seamless add-on application to Autodesk Land Desktop, which means you can communicate with land planning and civil engineering colleagues wherever they are and use the wide variety of Autodesk Land Desktop tools for point management, terrain modeling and contouring, and creating alignments and parcels.

# Autodesk Survey 2005

## Data Capture and Input

- + Use the new Survey Toolspace to view, manage, and edit survey networks, control points setups, and figures.
- + Communicate directly with additional data collectors, survey instruments, and GPS receivers using the new Carlson Connect functionality.
- + Communicate with Trimble™ RTK GPS using the latest release of Trimble Link software.
- Communicate directly with a wide range of common survey instruments and data collectors via the latest release of Survey Link DC.
- Input and edit survey information in an ASCII fieldbook.
- Enter raw survey data quickly and easily with tabular sideshot and traverse editors.
- Replace the AutoCAD command prompt with command-line COGO input.
- Specify command-line COGO options, including input based on control points, traverse, sideshots, baseline, centerline, and intersections.
- Edit and import COGO history files.
- View an imported fieldbook and batch process its data as it is imported into Autodesk Land Desktop.

## Data Analysis

- Perform traverse analyses, including Compass, Crandall, Transit, and 2D/3D Least Squares adjustment.
- Adjust traverse loops and get a full report.
- Create, edit, process, display, and report on Least Squares network functionality.
- Draft error ellipses and traverse linework automatically.
- Update sideshot locations automatically based on changes to the parent traverse.

## Figures

- + Select specific survey figures that are to be used as Terrain Modeling breaklines.
- + Zoom directly to a selected figure from within the Survey Toolspace.
  - Control layer, prefix, and usage as breakline with the user-defined figure library.
  - Base figures on various geometric input methods.
  - Analyze and report on figures with options that include Mapcheck, Inverse, and Area/Perimeter.
  - Place points on figures automatically.

## System Requirements

For a complete list of system requirements, visit [www.autodesk.com/survey](http://www.autodesk.com/survey).

## Companion Products and Services

Autodesk Professional Services offers consulting, training, and support services that help you develop a complete view of employee, customer, and vendor relationships. Find out how you can streamline your business processes and get the best possible return on your investment in Autodesk® technology. Visit us at [www.autodesk.com/professionalservices](http://www.autodesk.com/professionalservices).

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Purchase this software through your preferred Autodesk Authorized Reseller or Autodesk Authorized Systems Center (ASC). Find the reseller or ASC nearest you at [www.autodesk.com/reseller](http://www.autodesk.com/reseller).

For more information about Autodesk Survey 2005, visit [www.autodesk.com/survey](http://www.autodesk.com/survey).

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