

▶ CAiCE™ Visual Survey® 10

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Expand the Power of Your Surveys

Improve your surveying process with CAiCE™ Visual Survey® 10, the object-based survey software with a graphical, interactive approach. Use CAiCE Visual Survey throughout your workflow to import and process raw data from any major collector, define existing topography and terrain, and create precise digital terrain models (DTMs) quickly and easily. With field-tested processing techniques, a common editing interface for all data sources, and easy customization, CAiCE Visual Survey connects topographic data collection to accurate map or DTM creation.



The CAiCE Visual Survey intelligent 3D database improves error checking of field data and ensures the accuracy of data transferred to the design engineer.

Flexible

Use CAiCE Visual Survey for right-of-way, topographic, volumetric, and as-built survey projects. The software converts raw survey file formats and uploads and downloads data from more than 50 types of collectors and file formats. And you can manage other formats with customized Microsoft® Visual Basic® for Applications (VBA) macros.

Powerful

Define points, lines, curves, spirals, and chains with the interactive coordinate geometry (COGO) tools in CAiCE Visual Survey. The COGO tools contain powerful utilities for finding and correcting errors in DTMs. You can create, edit, and display DTMs with a methodology that's optimized for large data sets. And the powerful data editor not only views and edits raw field survey data but also has features to add and edit instrument calibrations.

Customizable

Use feature codes, feature tables, cell libraries, color tables, text libraries, and sheet formats to adapt CAiCE Visual Survey to your specific needs. You can also customize requirements for data collection, coding standards, plans production, operations, and CAD standards. The Survey ToolBox contains more than 50 utilities for exporting, importing, geometry, and graphics and includes a traverse and adjustment tool, a legal description writer that links with Microsoft Access and Word, and several slopestake utilities. CAiCE Visual Survey has all the features and functions you need to complete your entire surveying process efficiently.

CAiCE Visual Survey 10

Data Import and Processing

- Run survey analysis reports.
- Import reduced survey data in most standard formats, including DWG, DGN, TDS, Geodimeter, and ASCII.
- Import raw survey data formats, including TDS, Prosurv, Sokkia, Leica, Trimble, Caltrans DMP, and EFB.
- Perform least squares analysis and reduction.

Geometric Layout

- Perform right-of-way analysis.
- Benefit from geometric object visualization.

Editing

- Use advanced editing features, including breaking, joining, and transforming objects.
- Benefit from interactive resolution of survey chain crossing.
- Work with automatic graphical attributes by feature code.

Digital Terrain Modeling (DTM)

- Work with large data sets.
- Construct cross sections.
- Draw freehand cross sections and profiles.
- Visualize terrain and DTMs with multiple surfaces and perform compliance checks.

Drafting/Plans Production

- Perform topographic mapping and automatic annotations.
- Plot plans and profiles.
- Work with customizable data tables.

Customization and Compatibility

- Develop customized macros with integrated Visual Basic for Applications (VBA).
- Use AutoCAD® DWG (including 2004), DGN (including V8), DXF™, and LandXML files.
- Import data from all major data collection software.

Cross Section Editing

- Edit cross section points, links, and surfaces.
- Apply edits over a range of stations.

Visualization, Graphics, and Imaging

- View contours, wireframe grids, slopes, and drainage information in 3D.
- Drape images onto surfaces, and view background files.
- Map images to real-world coordinates.
- Create AVI files for drivethroughs, design reviews, and client presentations.

Productivity Tools

- Identify screen objects with Data Tips.
- Use the Measure command for accurate positions, distances, and areas.
- Save, edit, and rerun command history.

System Requirements

- Intel® Pentium® II or faster processor
- Microsoft® Windows® XP, Windows 2000, Windows 98, or Windows NT® 4.0
- 128 MB RAM
- SVGA display, 256 colors
- 700 MB free disk space for complete installation

Companion Products and Services

Autodesk provides integrated consulting, training, and support to help you get the best return on your investment in Autodesk® technology.

The CAiCE Maintenance Program gives you complete technical support and access to the latest CAiCE software releases and enhancements, simplifying your software management and budgeting process. To learn more, contact your Autodesk Authorized Reseller.

Purchase or Learn More

To learn more about CAiCE Visual Survey, visit www.autodesk.com/caice. Purchase CAiCE Visual Survey through your Autodesk Authorized Reseller. To locate the reseller nearest you, visit www.autodesk.com/reseller.

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