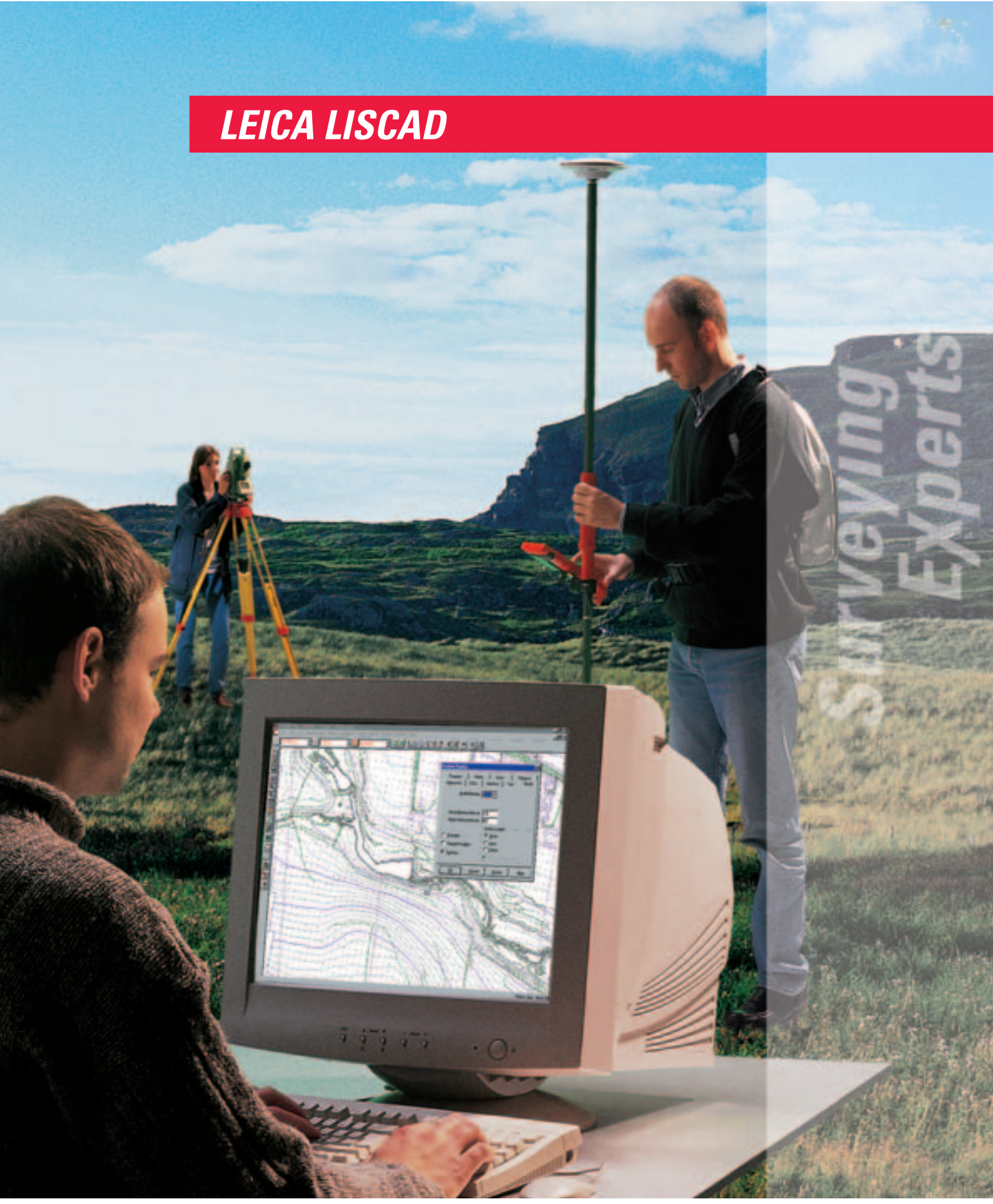
LEICA LISCAD



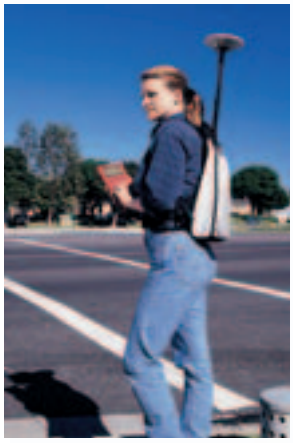
Surveying and Engineering Software
Designed by Surveyors and Engineers

Leica Geosystems

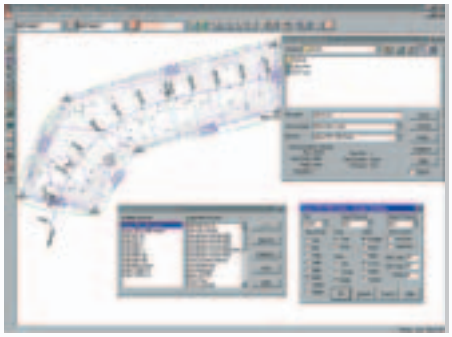
LEICA LISCAD
Designed by Surveyors and Engineers

You've collected your data. The hard work is done. Or so you think. Without the right software to process that data, you could end up in a real mess. LEICA LISCAD is a purpose made piece of software for the Engineer and Surveyor. Data from virtually any surveying instrument can be imported and turned into finished plans so easily, you'll wonder how you ever managed without it.

Because LISCAD is purely a surveying and engineering software, you only pay for what you need. In contrast to add-on packages for drawing programs, there are no superfluous functions that you will never use. The database has been designed with surveying and engineering tasks specifically in mind. This means it's faster. Data is imported straight in from Leica Geosystems instruments with no potentially disastrous reformatting.



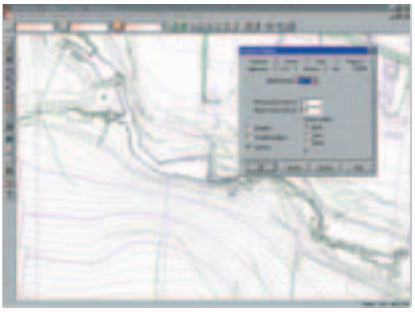
LEICA LISCAD
A Module for every Application



Importing Data

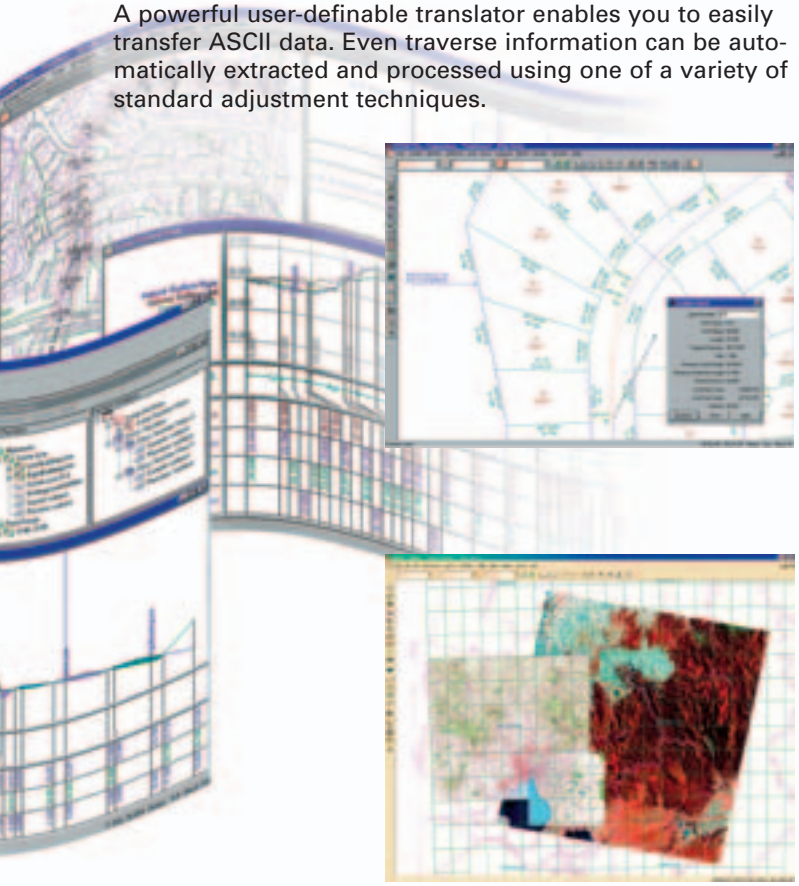
This is where the office work begins. Nearly 40 different types of data recorder are supported, including all the well known brands. Furthermore, if your data collector is not there, you can integrate your own specific input/output program seamlessly into LISCAD.

A powerful user-definable translator enables you to easily transfer ASCII data. Even traverse information can be automatically extracted and processed using one of a variety of standard adjustment techniques.



Modelling

Digital Terrain Modelling really puts surveying software to the test. LISCAD leads the way with its modelling method and database design. Maximum speed is assured and there are no limits in the software as to the number of points to be modelled. You have extensive control over the points to be included in the model creation and how the contours are displayed.

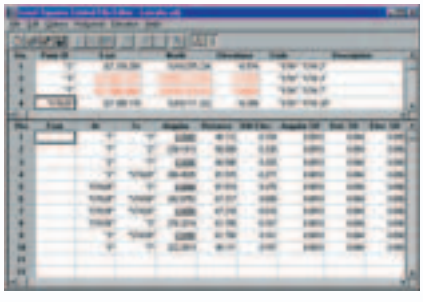


Computations (COGO)

Create and edit and examine points, lines, splines, polygons, text and alignments. The WYSIWYG (What you see is what you get) graphics mean you always know exactly where you are. Moreover, a range of powerful computation options for points, circles, arcs, splines and spirals simplifies and speeds up your work. Create line segments, best fit lines or arcs through a series of existing points and create polygons for cadastral work. Its all so easy. All attributes attached to a point can be displayed through a single mouse click. Editing of points can also be carried out en masse by block, code, point range, description or group.

Background Images

Background Images, allows the import of aerial photographs, satellite images and maps, which can be georeferenced. This allows for the correlation of images to your vector geometry, as well as on-screen digitizing.



Adjustment

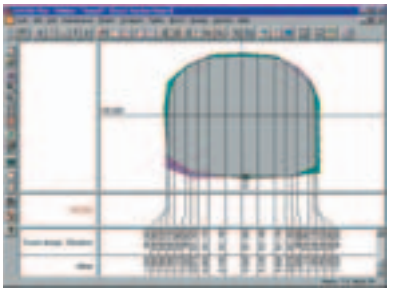
Good surveyors never measure a point once only. For the utmost accuracy, a least squares adjustment has to be performed. LISCAD includes a rigorous least squares adjustment program to ensure the quality of your data. Flexibility is given with the possibility to perform adjustments horizontally, vertically, or both. The comprehensive reporting means you'll be able to spot outliers immediately.

Volumes

Calculate quantities to a base datum, or between surfaces. Additionally, height differences can also be calculated for evaluation or set-out on design projects.

Utilities

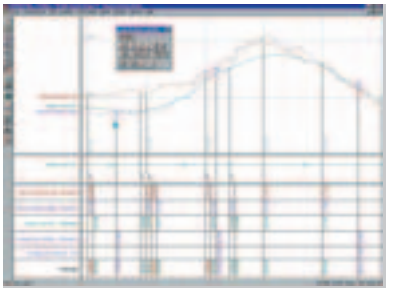
Configure LISCAD to your personal preferences. Set the units, colours, symbols, line styles, polygon symbols and line hatching. Create and edit your own toolbars, set the features to be displayed and produce comprehensive reports. Code tables provide the key link between field productivity and the information you need to provide to your client. Attributes are quickly and easily assigned to codes.

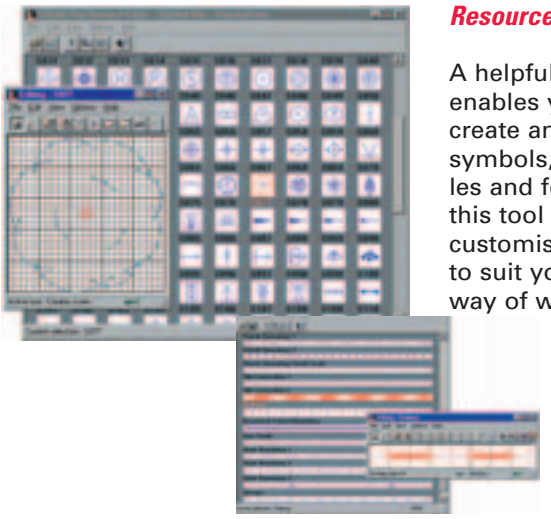


Profiles

Profiles is a very powerful and comprehensive tool for creating and editing sectional data for CAD output and end area volumes.
A multitude of output formats are available for the major CAD packages. Create long and cross sections from DTMs with full control over the viewing and labelling.

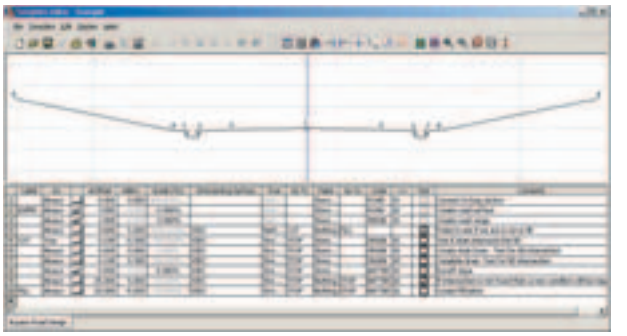
Cross sections can be set up so that the user can step through the cross sections along an alignment or go directly to a specific cross section.





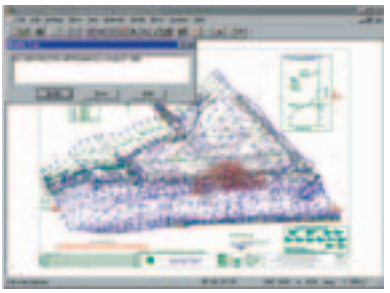
Resource Editor

A helpful tool that enables you to create and edit symbols, lines styles and fonts. Use this tool to further customise LISCAD to suit your own way of working.



Engeneering Design

The powerful condition based design system can easily generate design elements for building structures like dams and multi-lane highways.

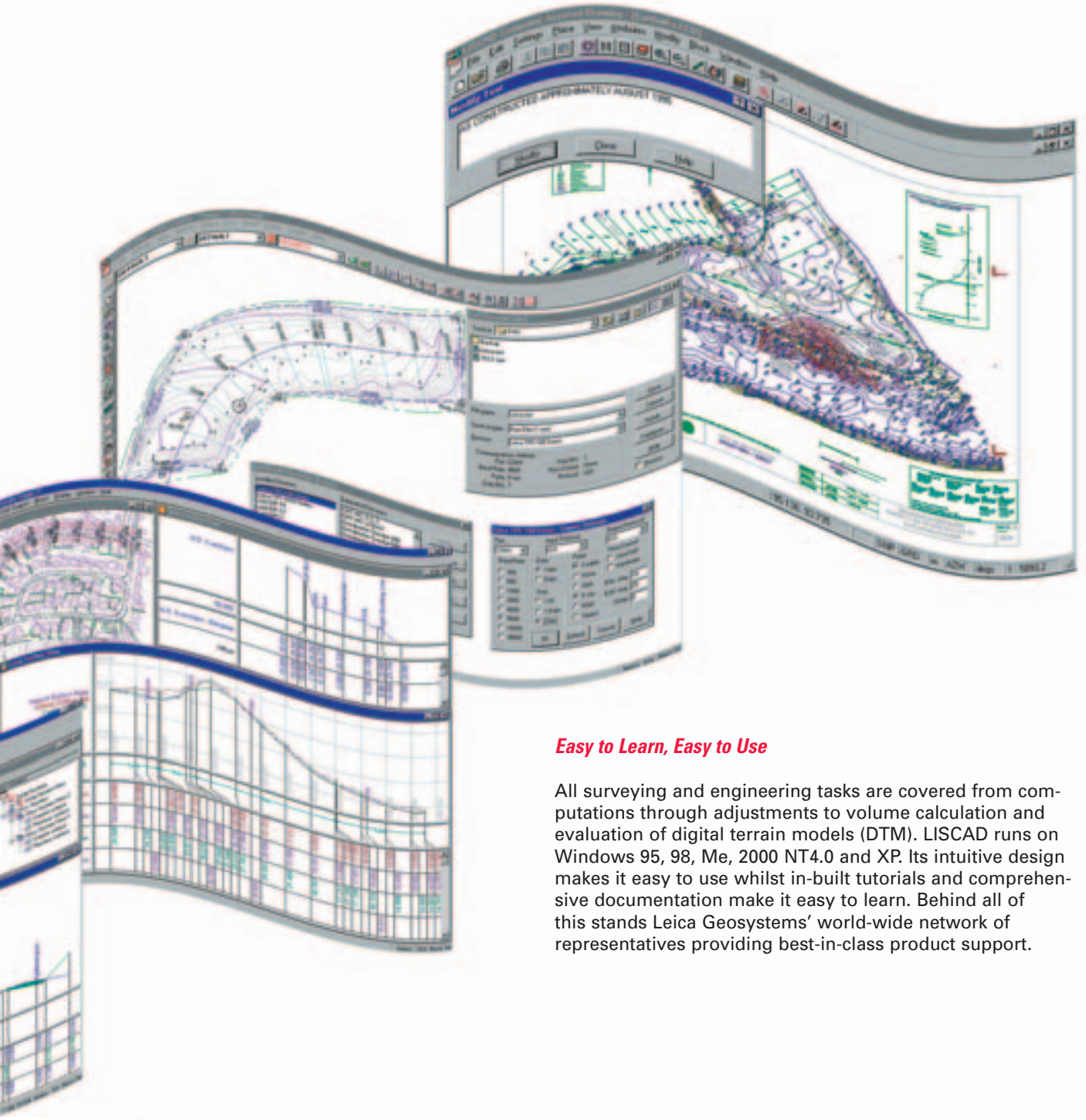


LEICA LISCAD CAD

The final part of the jigsaw, LISCAD CAD generates your final plan. A whole CAD package that is specifically tailored towards surveying and mapping, LISCAD CAD contains many advanced features such as multiple window display of the same drawing, import and export in DXF and DGN formats as well as all the usual drawing and editing facilities normally found in CAD packages.

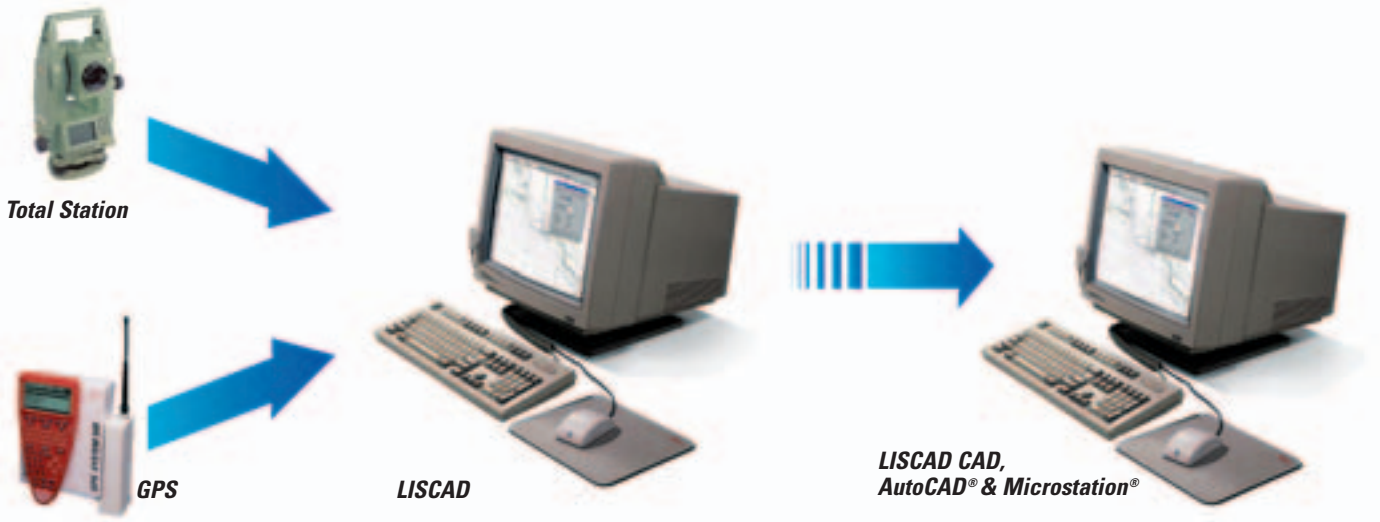
Transformations

The transformation component enables you to transform coordinates between coordinate systems. Conformal, semi-affine, affine or unscaled methods are at your disposal. All computed transformation parameters are reported and independent weighting of coordinate pairs is also possible.



Easy to Learn, Easy to Use

All surveying and engineering tasks are covered from computations through adjustments to volume calculation and evaluation of digital terrain models (DTM). LISCAD runs on Windows 95, 98, Me, 2000 NT4.0 and XP. Its intuitive design makes it easy to use whilst in-built tutorials and comprehensive documentation make it easy to learn. Behind all of this stands Leica Geosystems' world-wide network of representatives providing best-in-class product support.



LEICA LISCAD Packages
It's Easy with the Right Software

LISCAD can be customised with any of the components mentioned previously. However, the most economical way to purchase LISCAD is with a pre-configured package.

LISCAD Lite

For those who don't need the full functionality and power of LISCAD, there's LISCAD Lite. An incredibly economical way to prepare field data for input into a CAD system.

LISCAD Standard

For most applications. Includes Computatons, Input/Output, Adjustment and Transformations.

LISCAD Professional

For the power user. As LISCAD Standard plus Background Images, Modelling, Volumes, Profiles and Design.

LISCAD Education Network

For educational institutions. Runs on a network with multiple users at any one time. Benefits from a special discount scheme and includes all LISCAD components.

Upgrades

Upgrades from any previous versions are possible. Ask your Leica Geosystems representative for further details.

System Requirements:

Minimum:
Any PC that will effectively run Windows 95, 98, Me, NT 2000, XP
30 MB of available disk space (typical installation)
Super VGA (800 x 600) or higher resolution video adapter
Keyboard or Mouse or compatible pointing device
Appropriate interface port for data transfer

LISCAD performance will be enhanced when working with larger data sets if either the Windows NT, 2000 or XP operating systems are installed. Installing more memory will also improve performance, as will a high performance gaphics card with more graphics memory.

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Total Quality Management – Our commitment to total customer satisfaction

Ask your local Leica Geosystems dealer for more information about our TQM program.

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