



Swift & Simple



AutoPlotter[®]

AutoPlotter a flagship product of Infycons, is one of the most popular and powerful software for surveying community. AutoPlotter is being used by leading consulting and contracting firms and Government agencies around the globe to interface with surveying field equipments, process and produce final deliverables with ease. With complete CAD integrity and advanced Digital Terrain Modeling (DTM) engine, AutoPlotter demonstrates convergence, accuracy and speed to realise your engineering goals. Broad range of options for contouring, sections and computations give an unparalleled control and flexibility to manage the data. AutoPlotter uses standard surveying terminologies with streamlined commands for drawings and report generation.



Workflow and Design Environment

AutoPlotter is engineered to optimise the way CAD and surveyed data work together. Surveying features of the software are leveraged by the tightly integrated CAD environment to generate precise results by faster processing and better visualization. A broad set of drafting and reporting tools provide complete control to create, edit and manage drawings.

Highlights:

- ▶ 3-way command execution approach
- ▶ Standard CAD format support
- ▶ Dock & floating windows
- ▶ Efficient Layer management
- ▶ Bird eye view and magnifier to visualize large projects
- ▶ Quick access setting modes

Data Integration

Get unified view of data obtained from different makes of total stations and GPS. Seamless download and upload of data to instruments with powerful functions for data editing and management of survey points are available. Data is displayed in groups with several survey nodes grouped together based on survey features. No matter what your project's size or scope is, you can meet the challenge with AutoPlotter.

New methodologies have been adopted for better management of data obtained from conventional surveying instruments like theodolite, tachometer & distomat.

Topographic Survey

Creating topographical maps has been simplified by enhanced and interactive library feature. Conventional or customised symbology can be used to highlight various features of spatial information. AutoPlotter ensures that the data and symbology stay in sync by associating them directly from the file system. Real-time updation of attributes and symbols reduces overall effort during creation of final maps.

Highlights:

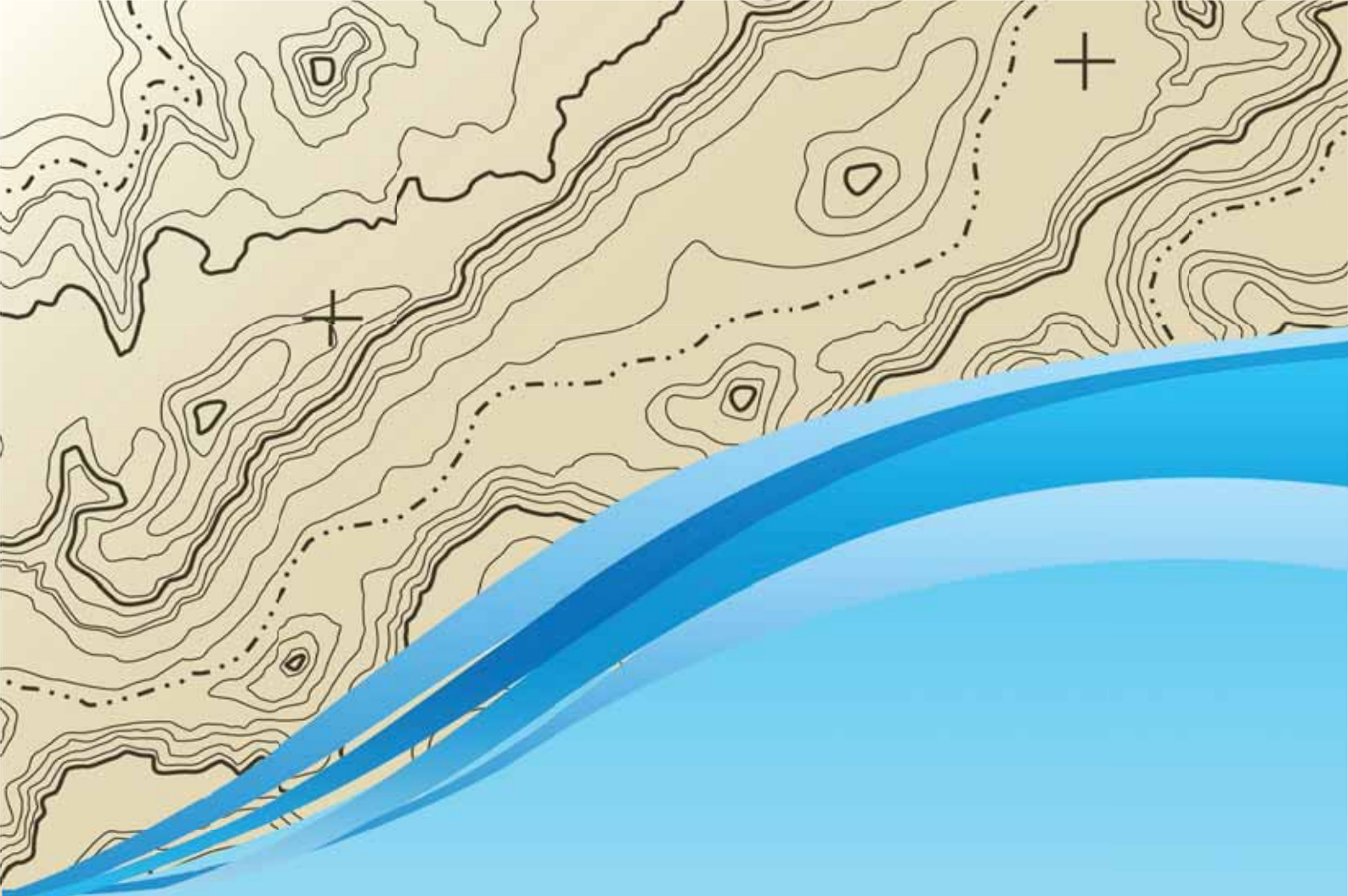
- ▶ Easy to use library
- ▶ Powerful drawing data management with extensive Layer configuration
- ▶ Survey Entity Type configuration for points, lines & polygons
- ▶ Automatic Symbol insertion & Hatching
- ▶ Automatic tool to create missing building corner
- ▶ Adoption to user standards with Import/Export library feature

Traverse Adjustments

Accurate computations and results are the key to a successful survey. Even after providing numerous checks, it is not possible always to eliminate errors that occur during field work or computations. In AutoPlotter, error calculation and distribution by established methodologies is simplified by the inquisite tools with control over your entire traverse stations.

Highlights:

- ▶ Closed/open traverse adjustments for n number of Stations.
- ▶ Bowditch, Crandall, Transit and Least Square adjustments to generate reports



DTM & Contour

Behind AutoPlotter's approach to faster and simple solution, lies a powerful and integrated DTM engine. Updates to Triangular Irregular Network (TIN) model are instantaneous, so the changes made is instantly reflected on 3D surfaces and contours. The new DTM engine supports application of inclusion and exclusion of boundaries, hard and soft break lines and various filters.

Highlights:

- Supports creation of unlimited number of DTM surfaces
- Data extraction from existing drawings and digitised maps
- Contour definition based on elevation range, major & minor intervals and individual elevation
- Single click option to toggle between TIN and contour display
- Better control over DTM & contour with data filtering, boundary and limit lines
- Depth contour display to show cut & fill zones

Sections

Tools for corridor survey are integrated with simultaneous views of plan, profile, cross section, area report & volume report that help in easy analysis of routes and sections. Changes in any view automatically updates other views empowering the user with better design decisions.

Highlights:

- ▶ Extraction of corridor information from DTM & plan with attributes
- ▶ Support for autolevel and digital level data
- ▶ Supports unlimited number of corridors
- ▶ Supports proposed profile definition with wizard based interface
- ▶ Dynamic view of longitudinal, cross sections, area & volume reports
- ▶ Templates and Auto-printing options speed up the output schedule

Earthwork & Volume

Unlimited number of DTM creation in AutoPlotter provides an extremely useful tool to compute volume between DTM surfaces which is particularly effective in Mines, Landfills, Dump sites etc.

Highlights:

- ▶ Cut & fill earthwork quantity for different applications like roads, canals, pipeline, open cast mines, dam & lakes, stockpiles etc.
- ▶ Provides systematic approach to volume calculation which is supplemented with in-depth reports
- ▶ Cut & fill zone marking on plan for construction planning
- ▶ Grid based volume calculation for stock taking purposes
- ▶ Elevation range based volume calculation based on contour levels useful to compute volumes for dam/bank contours, catchment, reservoir etc.

Other products

Add-on Modules

GE module

Google Earth module is a breakthrough addition in the Infycons' product line. It comes integrated with AutoPlotter for interfacing and processing Google Earth images to extract data after reading UTM coordinates for single/multiple tiles. GE Module is extremely helpful for reconnaissance survey to reduce time exponentially.

Mine module

Mine module adds extra functionality to link borelog information with survey data and produce borelogs, sections and perform volume calculations.

Other Software

Road Estimator™

Road Estimator is widely used software that eases the process of creating cross-section and quantity calculation of road works. With unlimited road template and road related feature definition, the software is used for expressways, national highways, ODR & any kind of road construction. Tools for auto-detection and calculation of Profile Corrective Course (PCC), vertical curve design and preparation of as-built drawings make Road Estimator an unique solution for Road consultants and contractors.

AutoRoads®

AutoRoads is completely equipped software with all necessary tools for geometric design of roads. To offer flexibility in managing survey data and to make it more suitable to roadworks, AutoRoads comes bundled with AutoPlotter and Road Estimator.

CanSE

CanSE (Canal Section Estimator) is ideal software for cross section generation and quantity calculation of canal works. With CanSE, it is possible to provide drains, dowels, spoil banks, service roads and lining & pitching and is also useful for re-surfacing of the canal.

About Infycons®

Infycons is a dedicated group of engineers and software professionals. We develop and market quality software products for the engineering field and provide state of the art solutions in the field of GIS, engineering and graphical applications. Our software is used not only for conventional tasks, but also in highly specialized fields. Regardless of the scale of work, we have consistently set the standard for integrating reliability and ease of use. Behind this reputation lies a comprehensive approach to product design, development and implementation. The culture at Infycons' is research oriented and driven by industry needs.

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