

Pythagoras

Surveying & Engineering

The ultimate
CAD+GIS application

- ▣ Surveying
- ▣ Municipal Planning
- ▣ Construction
- ▣ Civil Engineering
- ▣ Mining
- ▣ Landscape Design
- ▣ Utilities
- ▣ Road Design

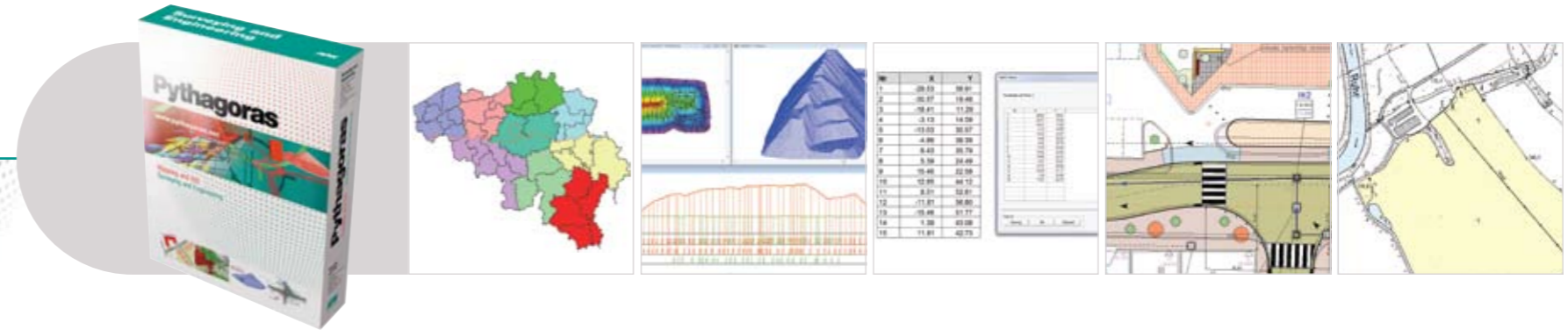
The
standard
for
both
and **surveyors**
civil engineers





CAD+GIS Pythagoras,

The ultimate CAD+GIS application



From field data to completed drawing, a small step, yet a major leap

Pythagoras enables you to make your drawing in the field. You set your own codes and let Pythagoras convert your field data into a drawing. The points, symbols, texts and lines will automatically pop up in the chosen color, style and layer. Pythagoras offers extensive coding possibilities that will allow the most complex measuring situations to be converted efficiently into a drawing. Since Pythagoras VBA allows Pythagoras to communicate directly with a serial port, receiving real-time GPS or total station data directly into a Pythagoras drawing is one of the applications that is in hot demand.

The CAD application that meets the surveyor's needs

Integrated calculation and drawing functions
Pythagoras is not a general application that has been adjusted, but a CAD application specifically designed to serve your needs as a surveyor or civil engineer. Pythagoras integrates both sophisticated calculation and drawing functions. You determine the intersections, areas, distances, etc. while drawing. Pythagoras offers you a multitude of advantages. No need for tricks: all the operations remain simple, however complex or extensive your plan gets. With a simple click of the mouse button every specialized calculation and drawing function is at your fingertips.

Unique drawing functions

Topographic drawing has its specific demands. Pythagoras can handle the most complex symbols, styles of lines and hatchings. Pythagoras' unique application allows you to define these drawing elements in both paper and real dimensions. Forget the time consuming scale alterations. You wish your texts and symbols to remain in a horizontal position, even if you rotate your drawing in relation to the page? Pythagoras can do that, too. Furthermore, even the general drawing functions are designed with the needs of the surveyor in mind: perpendicular and parallel lines, arcs, polygons, coordinate systems, layers, etc. Never before could you make your drawings so easily and so quickly!

Pythagoras: Powerful but simple to use

Pythagoras is part of the new generation of CAD software. No more complex commands, instead: intuitive and simple functions.

Intelligent cursor

Whenever the cursor approaches an object on the screen, a 'target' appears. The form of the target depends on the object and the place of the object it refers to. This way, the cursor automatically snaps to points, lines, points of tangency, etc. At the same time exact information about the object is displayed in the control panel. A few simple mouse clicks suffice to obtain the distance between a point and an arc, the radius of an arc, the difference in height between two points, etc. As simple and quick as it gets.

The Control Panel

The control panel is your instrument panel while you are making your drawings, calculations, etc. The information in the Pythagoras control panel is context sensitive, i.e. the information in the control panel will change according to the object you want to draw and according to the relation of this object to other objects. Thanks to this control panel and the intelligent cursor, exact drawing with the mouse of any chosen object becomes totally effortless.

A standard graphical environment

Working simultaneously on various drawings, as well as selecting, printing, etc. All these functions are executed in a way that is standard for Windows applications.

From field data to completed drawing a professional result

Pythagoras works according to the WYSIWYG-principle, thus showing you on the screen exactly how your drawing will be printed. Adding a frame poses no problems whatsoever: you draw in page coordinates, directly onto your page, without having to take into account the scale of the drawing. Selecting a different page layout? Your drawing coordinates will not change and the frame will stick to the page. The result? A perfect printout of your drawings.

Pythagoras: all the functions the surveyor needs combined in one application

Raster data

Pythagoras allows the perfect combination of raster and vector data offering numerous possibilities while making location models, preliminary designs, and thematic maps as well as digitizing drawings. Pythagoras integrates raster data in a way fit to a topographic application: transformation to the chosen coordinates, adjust the scale,... Pythagoras can even combine thousands of different maps into one drawing.

Terrain modeling

The calculation of contour lines, cross sections, cut & fill, and slopes as well as a perspective view of the site, Pythagoras makes them all possible. Based on tens of thousands of points and break lines - or arcs for that matter - Pythagoras can calculate a field model using flowing contour lines, each at a desired distance, color and type of line. The cross sections and profiles will be made to the chosen scale and you can place them wherever you want. Pythagoras calculates the cut & fills based on two digital terrain models.

Road design

Pythagoras also proves to be a powerful, yet user friendly, application for road design. Well designed windows will show you the field data and an adjusted control panel will help you design the horizontal and vertical alignment. Spiral curves and super elevation are automatically calculated by Pythagoras based on user settings (speed, ...). The result: detailed cross sections, profiles and volumes.

Calculations

For most calculations, Pythagoras will not ask you for any special commands. They are considered a logical result of the way the objects are being drawn. Exceptions are: the calculations of transformations, traverses, adjustments, intersections, and resections...

Coordinate Reference Systems

Pythagoras supports many Coordinate Reference Systems. Lambert 72, Gauss Kruger, UTM, WGS84 to name just a few. A drawing defined in any of those systems can be converted to any other coordinate system.

Google Earth

Work preparation was never that easy. In Pythagoras, just select the objects you want to see in Google Earth and push the button. The drawing will be shown in Google Earth at the correct position.

Programmable - Pythagoras VBA

Pythagoras allows you to exchange drawings with other CAD and GIS applications in various ways (e.g. DXF, DWG and SHAPE). Above all Pythagoras is an open application, allowing programmers to make direct links between Pythagoras and other applications. The goal here is client specific functions and the integration with other information systems and databases.

Pythagoras CAD + GIS

A tightly integrated CAD and GIS provides the ultimate solution for many geo-applications, as in utility companies and municipalities. A few examples:

- Complex databases (SQL Server, Oracle, ODBC, MS Access, ...)
- Queries
- Thematic maps
- Table viewer and other reporting features.

ADW
software





Pythagoras: A sure investment in the future

Pythagoras is, as you will soon notice, an investment that quickly pays off. Getting acquainted with this application will not take long because of its user friendliness. But what will the future have in stall? What computers and operating systems will prevail in the coming years? ADW Software has already given thought to this question and is prepared for the challenge. ADW Software has a vast experience in the compatibility of operating systems and computers. We at ADW Software are determined to follow up on the developments and have Pythagoras evolve along with the important evolutions in computer technology.

Ask for your personalized Pythagoras demonstration

Do you need more time to make a decision? Ask for your own personalized demonstration. Such a demonstration will convince you that never before your tasks could be executed so swiftly and easily. Pythagoras offers a modular solution. Large and small companies, surveyors and contractors as well as municipalities and public utility companies...

You choose the modules according to your own needs.

Do not hesitate any longer: Contact us today.
And let Pythagoras CAD+GIS convince you!

Visit our website:

www.pythagoras.net



MS Windows

Pythagoras CAD+GIS is available for
Microsoft Windows XP, Vista and 7

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