DataCAD® Plus

Software for AEC Professionals

DataCAD Plus was developed with the knowledge that ease of use and creative flexibility is the prime concern of the AEC professional.

With DataCAD Plus ZAC™ (Zone-based Architectural Construction) it is now possible to produce quick and accurate 2D construction drawings while simultaneously developing a design in an intelligent 3D environment.

www.datacad.com

DataCAD® Plus

Software for AEC Professionals

Plus

DataCAD Plus supplies the tools busy architecture, engineering, and construction professionals need to move efficiently through the entire building process from design to visualization and from permit planning to construction. Backed by more than a decade of practical architectural CAD experience, this application-oriented program lets you quickly produce drawings that encompass many complex architectural features.

Operation

DataCAD Plus is based on a results-oriented operating concept. It supplies you with the correct tools when you need them, allowing you to budget your time and stay on target. Advanced tutorials help you rapidly master the program and alter it to suit your needs. You can access all of the program's functions in several ways: use the mouse, rely on the menus, or take advantage of hot keys (keyboard shortcuts) and macros. You can create your own shortcut keys, too. The multilevel undo/redo function gives you additional security and control. With undo, you can go back step by step to eliminate your last inputs; with redo, you can repeat actions automatically.

Function

DataCAD Plus offers more than the usual editing functions. Also, DataCAD Plus:

- links colored or hatched surfaces for floor plans, site plans, and elevations and lets you plot them directly from your drawings
- supports 3D modeling which lets you combine 3D elements (such as rectangular-based blocks, slabs, cylinders, spheres, cones, tori, polygons, or mesh surfaces) to create complex structures or fashion detailed building features
- provides a comprehensive collection of more than 12,000 2D and 3D scalable symbols (including furniture, plants, plumbing, electrical, mechanical, and other building elements) that you can place in your drawing
- dimensions drawings
- automatically incorporates your design modifications efficiently
- uses the Undo/Redo system to let you quickly make corrections by retreating (undo) step by step or repeating (redo) actions
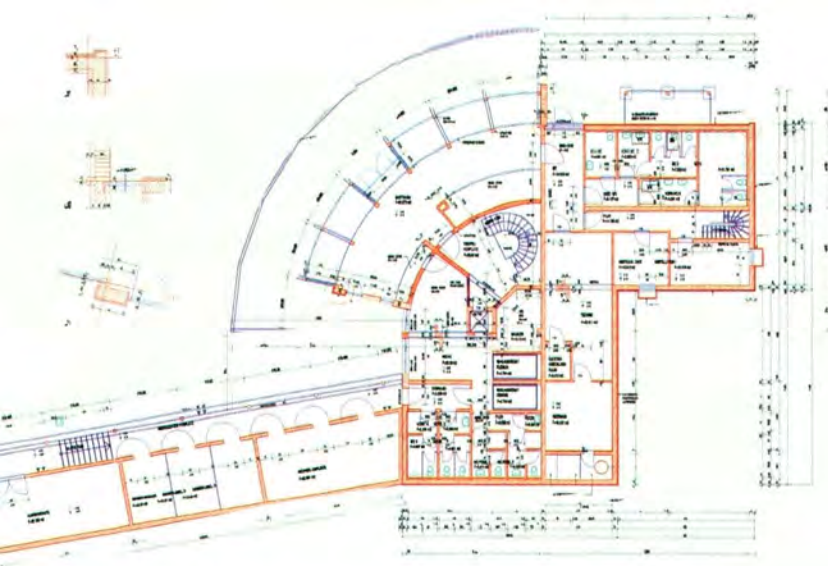
Function

- offers expanded object snap functions
- supplies a new graphic snap point based on the options (such as Nearest, Center, Tangent, Global, etc.) you implement, letting you verify that you are using the correct snap point
- controls plotting with Plot Manager, allowing your layout to show diverse versions of plans and to use different scales on one plotted sheet
- formats new plots of revised drawings based on previous criteria
- uses your default Windows® printer driver or a generic HPGL/2 driver to plot your drawings
- models site plans by dropping a polygon mesh over survey data points or contour lines with a Digital Terrain Modeler (DTM) which you can customize, allowing greater flexibility and creativity in producing realistic models and landscapes
- imports bitmap files (such as your customer's logo, a scanned image, or photo) that you can insert in your drawing, trace over, and print

DataCAD Plus allows you to work on large projects in logical segments (such as by floors or sections) which you link together to form a complete structure. Instead of laboriously drawing each detail, ZAC™ lets you work intuitively with building components to immediately generate 3D models, 2D plans, and sections with user-defined, scale-dependent levels of detail. ZAC automatically links, positions, and dimensions windows, doors, walls, and other building elements that belong together.

Zone-based Architectural Construction

Zone-based Architectural Construction

When you make a change in your floor plan or 3D model, ZAC independently readjusts and dimensions all building components in the zone. ZAC automatically determines a room's boundary, area, volume, and perimeter; it effortlessly recalculates them as you make changes. DataCAD Plus helps save time and increase productivity. Also, DataCAD Plus:

Timesaving

🔸 uses applicable standards to calculate the area and volume of each room and surface, add them together, and verify the results

🔸 lets you use area and volume measurements in other computer programs to produce lists of materials and other analytical reports

🔸 includes an integrated program to help you add a two- or three-dimensional stairway that can include intermediate landings, turns, and curves to fit in the allotted space

🔸 supplies a macro to help you add an easily adjusted roof model that can include dormers, gables, and adjoining roofs

🔸 provides a user's guide and online help to let you learn about the new functions

🔸 takes advantage of the latest 32-bit technology to become the fastest Windows based CAD program available

🔸 lets you set custom program configurations

🔸 provides a new project management feature that lets you customize the program to suit your needs

🔸 treats each project as a self-contained unit, complete with drawings, layers, and plotting details

🔸 supplies enhanced performance with the default MIRO® display list driver which is configured during installation to allow fast pans and zooms and to regenerate quickly
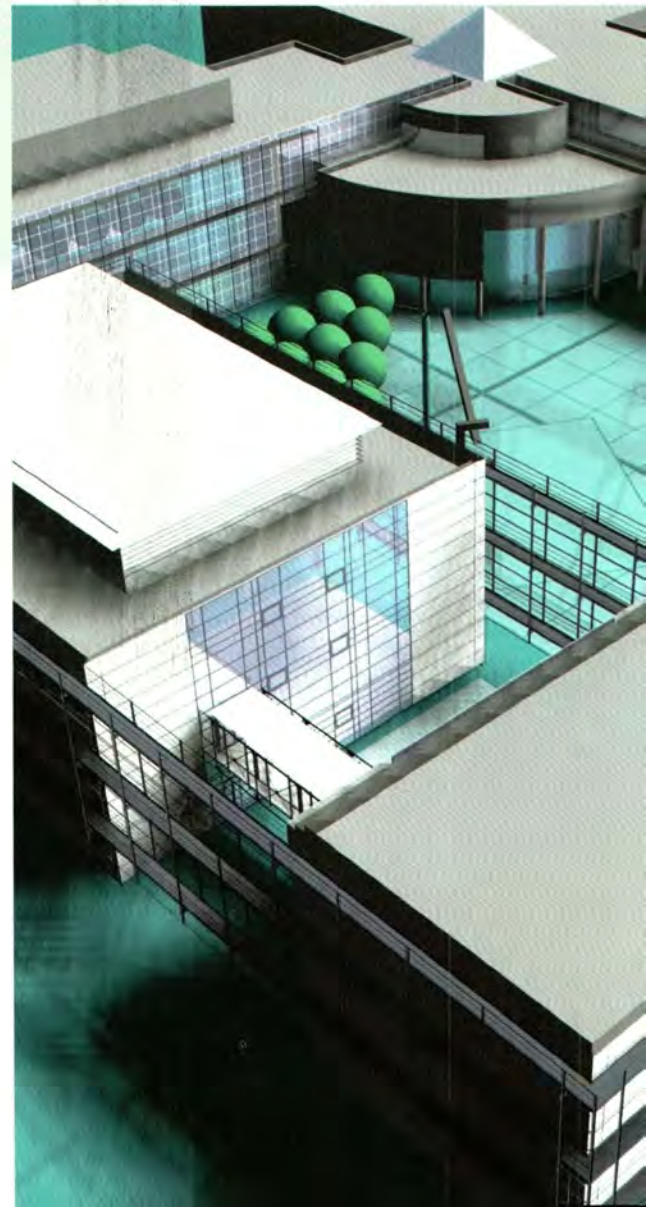
Exchange

DataCAD Plus provides an OpenDWG™ based translator to import and export files up through AutoCAD® Release 14 and 2000. The translator converts custom linetypes so your drawings display in AutoCAD just as they do in your DataCAD Plus file. You can also efficiently and accurately exchange data in standard DXF™ format.

www.datacad.com

Viewing Options

DataCAD Plus lets you look at your design in several ways. You can use the new Object Viewer for instantaneous and dynamic viewing of your CAD models. The DataCAD Plus Vis program offers instant rendering with drag-and-drop objects and textures; it also calculates the shadow cast by the sun and the moon for any location and time of day. Your drawing virtually comes to life on the monitor so your customers can "tour" the project, spot problems before construction starts, clear up misunderstandings, weigh alternative solutions, and make changes instantly on your computer. You can use a laptop or notebook computer to bring advance visualization to the construction site, too.

Web-Ready!

DataCAD Plus lets you create highly compressed DWF (Drawing for Web Format) files, allowing you to publish and view drawings on the internet. This encourages internet-based communication with your customers, collaborators, and subcontractors.

DataCAD® Plus

Software for AEC Professionals

Geoffrey Moore Langdon, FAIA, comments on the introduction of DataCAD Plus:

"It is interesting that the developers of DataCAD Plus, knowing that the majority of their vast user base really wants quick easy 2D production drawings, developed this new entirely different core which uses intelligent 3D objects, designed the program interface to be very familiar to those existing users and uses those new smarts mainly to produce a better DataCAD where things now happen automatically and 2D productivity things like sections, elevations, and stories are a snap. Many other CADD programs that try to make easy architecturally smart objects, end up with limitations, where you simply cannot do or design something the programmers haven't thought of first. The developers of DataCAD know that easy flexibility to do anything is the prime concern of architects. With their unique approach to smart 3D parametrics in DataCAD Plus, they have realized that flexibility in an elegant way."

DATACAD LLC

Software for AEC Professionals

info@datacad.com
www.datacad.com
(800) 394-2231 Sales
(860) 677-4004 Main
(860) 677-2968 Fax
20 Tower Lane
Avon, CT 06001 USA