

progeCAD Details

High compatibility with AutoCAD *

progeCAD's original format is DWG. This ensures unrivaled compatibility with AutoCAD without any need for file conversion or any danger of information loss. (Support for DWG up to the **latest**). progeCAD lets you export your drawing files to any previous AutoCAD version, both in **DWG** and **DXF** format.

Total integration in the Windows environment

progeCAD's exceptional efficiency is guaranteed by its total integration in the Microsoft Windows environment.

64 Bit and Multicore support

Native true 64-bit and multi-core support with improved memory management. Handling of large drawing files gets much more efficient on 64-bit machines, while performance when opening or regenerating progeCAD drawing files has been enhanced by 1 1/2 to 3 times faster on multi-core computers.

Ribbon and Classic GUI

progeCAD supports both common Menu interfaces: the *Classic* one based on the standard toolbar and the new up-to-date *Ribbon*-based menu as of Microsoft Office or AutoCAD Ribbons use tabs to expose different sets of controls, eliminating the need for many parallel toolbars. Customizable through CUI Files.

Users accustomed to the classic **Drop-Down menu and Toolbars** can still stick to their preferred style.

EasyArch

This - The Automated Architectural 3D Building plugin for architects, is designed to increase productivity in house and office interior design and remodeling.

EasyArch allows you to:

- Create walls
- Edit walls (delete, rotate, MOVE, copy, make/cap holes etc.)
- Insert, copy, move, edit doors and windows automatically
- Manage layers (quick turning on/off, freeze/UnFreeze, isolate etc.)
- Manage and insert parametric blocks from the additional menu
- Create stairs

- Create Roofs
- Create and edit tables of elements, rooms, spaces
- Assisted Dimensioning

PDF format Printing/Export*

The PDF format is extremely convenient for the publication of your documents, which can then be read with ADOBE ACROBAT READER. Acrobat Reader is a free product; many computers already have it available.

However, in order to produce PDF files, a specific product such as ADOBE ACROBAT is needed. This requires the user purchase an extra program, usually ADOBE ACROBAT, in addition to their investment in CAD software.

progeCAD Professional automatically adds a virtual printer which can produce PDF files without the need to own ADOBE ACROBAT.

progeCAD can create PDF files compliant with the PDF/A Standard. The PDF/A file format is often a requisite for official institutions and public administrations. The PDF/A file format is an ISO-standardized version of the Portable Document Format (PDF) specialized for the digital preservation of electronic documents. PDF/A differs from PDF by prohibiting features ill-suited to long-term archiving, such as font linking (as opposed to font embedding).

Drawings can be also exported to create **Layered PDF** with the same Layers schema visible in the DWG

PDF Import *

progeCAD converts vector PDF engineering and architectural drawings into the DWG/DXF format as editable objects. It accurately reproduces lines, shapes and text strings.

JPG format printing *

progeCAD is able to print your drawing as a Jpeg file, very useful for documentation, manuals, catalogs, brochures etc.

iCADLib module and Libraries *

The iCADLib module for progeCAD ensures the best organization and management of your symbol Libraries.

Advanced module for block management. More than 20,000 2D/3D Blocks ready to use. Construction, Architectural, ANSI-ISO and DIN-ISO Mechanics, ANSI and IEC Electrical, Electronic, Steel Profiles, Furniture, Kitchen.

iCADLib integrates the progeCAD's Traceparts web portal for more than 100 million blocks. TraceParts offers directly guided block insertion from the web to your drawings just in a snap.

TraceParts is a leading digital engineering 3D content company, offering progressive business solutions through powerful web based products and services. As part of the Trace Software Group founded in 1989, TraceParts develops and markets software solutions for CAD parts libraries, electronic catalogs and product configurators specifically designed to meet the requirements of the mechanical industry. TraceParts helps customers improve marketing efficiencies by increasing the value of their existing digital product data. The [progeCAD's Traceparts web portal](#) is freely available to progeCAD's users worldwide, with hundreds of supplier catalogs and over 100 million CAD models and product datasheets suitable for the design, purchasing, manufacturing or maintenance processes.

Improved Graphical User Interface *

A more comfortable and standard graphic interface, New Toolbars match an 'AutoCAD like' feeling. New Hatch and Plot forms

Autocomplete Command Mode

When entering a command or system variable on the command line you are assisted by an auto completion list of the commands and system variables available. Useful for CAD professionals who are fond of typing commands rather than using Menus or Toolbars.

Dynamic Input

Dynamic Input is an alternative way of entering commands through a command line interface at your Crosshair. You can input the length of a line, the radius of a circle, etc., with dynamic visualization of changes relative to mouse movements. When dynamic input is turned on, a tooltip displays dynamically updated information next to the cursor. When a command is in progress, you can specify options and values in the tooltip text box. You can also configure dynamic input to meet your personal or company standards.

The feature is to further boost your productivity by making drafting and editing processes more efficient.

Annotative Objects

The feature automates the sizing of annotations such as text, hatch and dimensions in multiple viewports with varying scales. The annotative objects are scaled based on the current annotation scale setting and are automatically displayed at the correct size. The following objects can be annotative, meaning that they can size automatically:

- Text (single-line text)
- Mtext (multi-line text)
- Dimensions

- Tolerances
- Hatches
- Blocks
- lock attributes

Drawing Fields

The Field tool automates the insertion of title block text or any other annotations in a drawing. If text is used repeatedly, Drawing Fields can save time and improve accuracy. Drawing Fields can automate placing the current date, initials, company name and address, etc.

Gradient Hatch support *

Gradients can be displayed and created through an interface which is made simple within progeCAD IntelliCAD.

Advanced Hatch interface *

Improved Hatch form with an 'AutoCAD Like' approach

Highlighted selection area *

Crossing and Window Selection with highlighted colors (colors can be customized)

Aerial View *

In a large drawing, you can pan and zoom quickly in a window that can display the whole drawing

Dynamic UCS

The new dynamic UCS feature automatically creates a temporary XY plane to draw on. The dynamic UCS feature dramatically speeds up drawing in 3D environment.

Wipeout entities

Can prove very useful to hide undesired or unnecessary parts of your drawing. With Xref and viewports visualization, hiding areas of your drawings can allow you to minimize areas of rework and having to re-draw sections, elevations, details, etc.

Quick Dimension

Create and modify quickly a large number of dimensions at a time.

Google Earth Add-On

Import a Google Earth view to locate your CAD 3D models or publish your projects in Google Earth.

Image Georeferencing

Georeferencing is the process of scaling, rotating, translating and deskewing the image to match a particular size and position. Special for GIS

Raster/Vector Edit

You can insert and manipulate Raster images with only one click of the mouse! progeSOFT signed an important agreement with Hitachi allowing the use of the image attach function in the Professional version.

ECW support *

An open standard wavelet compression image format developed by Earth Resource Mapping. The file format is optimized for aerial and satellite imagery, and efficiently compresses very large images with fine, alternating contrast. This is a lossy compression format

Jpeg 2000 support*

Jpeg 2000 is a wavelet-based image compression standard. It was created by the Joint Photographic Experts Group committee in the year 2000 with the intention of superseding their original discrete cosine transform-based JPEG standard

Integrated Plot Interface*

Improved printer management with printer control has been closely integrated with progeCAD. Paper orientation control and Layout configurations are now stored in the drawing

ACIS Solids

progeCAD reads and writes 3D solid objects utilizing the ACIS Solid Modeling libraries (the same as AutoCAD). Essential for those who deal with Industrial Design, Dies, complex architectural elements and generally for any application in which creating complex three-dimensional shapes quickly and easily is essential. ACIS solids are available thanks to an agreement with Spatial Corporation, developer of the solid modeling technology used by most top CAD software developers.

progeCAD Professional has implemented complete management of ACIS solids, which can now be viewed, printed, created and edited. You'll find exchanging CAD project documents containing ACIS Solids (such as AutoCAD .dwg drawings) is made easier and more seamless due to the ACIS kernel built into progeCAD Professional. The creation of complex three-

dimensional shapes by using solid models is much simpler in comparison with the more traditional techniques.

Advanced Solid Grips

By dragging grips you can change the shape and size of primitive solids. For example, the change of the height of a cone will maintain the overall cone shape and automatically update the base radius. The Solid Grips feature is introduced to enrich 3D editing operations.

3D Ortho

Alongside the classic X,Y Ortho snap modes restricting cursor movement to horizontal and vertical, the program now also provides the Z Ortho mode restricting the cursor to the up and down directions.

3D Photorealistic Render *

This is an ideal product for designers who have a need to view their design as close to true life as can be generated. progeCAD Professional includes advanced Rendering, based on Ray-Tracing, and includes the following:

- Different Types of Light Sources
- Light Source Dependent Shading
- Reflective Surfaces
- Transparency
- Materials like wood with grain, stone, plastic, metal, brick, solid shades (All Customizable)
- The finishing can be personalised with effects of reflection or transparency
- Multiple light points providing complete control over illumination
- Exporting of images in JPEG, TIFF, TGA, PNG and BMP format
- Library of pre-set materials
- Smooth shadows
- Sun position control
- Save images with custom resolution



Render Export Tool

Export tool for Lightwave 3D (.lwo), 3DStudio (.3ds), Pov-Ray (.pov).

Eattedit *

Advanced Attribute editing AutoCAD like

Layout

Multiple Layout management with Layout Tabs. Support multiple print table configurations. Compatible with Auto CAD's Layouts

Layout Advanced Features *

Hide on Layout

- **Shade on Layout**
- **Selection of Model Space with Double-Click**
- **Layout Tabs**

Polygon Layout Viewports

Create a nonrectangular layout viewport or convert a closed object, polyline, circle etc., into a viewport.

Change Space

Move entities from Model Space to Paper Space or the other way round with the help of the CHSPACE command. The command CHSPACE also scales entities by the viewport scale to automatically moderate their intended size in Model or Paper space.

Printing with Hidden Lines

Printing of 3D drawings with hidden lines. **Now also print with lines hidden on DVIEW (perspective view)**

DWF Import & Export

progeCAD 2010 Professional can now both **read** and write standard DWF files. DWF 3d Export is supported

DWF View *

progeCAD 2011 Professional has a DWF reader embedded

RealTime Pan & Zoom

The exclusive **PPAN Technology*** boosts Pan and Zoom in realtime, allowing fast, smooth management of large drawings, and those with big hatch objects and TrueType Fonts.

Lineweight for Display and Printing

Add line weight to entities for display on screen and plotting

Xref Manager

progeCAD manages external references, drawings dynamically inserted in the main drawing update when edited externally. The Xref Manager is an integrated mask (similar to the one available in AutoCAD) which allows the management of external references visually.

Polar Tracking (Polar Snap) *

help to draw objects at specific angles or in specific relationships to other objects. When polar tracking is turned on, temporary alignment paths help you create objects at precise angles.

Etrack (similar to Object Tracking: Otrack) *

Used to avoid the necessity of drawing construction lines in order to locate points.

In-Place Block Insert Editing *

Edit blocks without leaving the host drawing. Changes are saved back to the originally inserted drawing.

Express Tools *

is a library of more than 30 productivity tools designed to help you extend the productivity of progeCAD. Easy to use, integrated into menus and toolbars, and covering a wide range of progeCAD functions, including layer management, drawing, object selection, object modification and extended entity data.

Layer Manager

Save different layer's status (on, off, thawed, freeze etc.) for different editing, visualization or printing requirements, and restore back to their original settings with a click

New Wizard *

Create new drawings based on prototypes or pre-set values (similar to options available in AutoCAD)

Flexibility and personalization

Like AutoCAD, progeCAD IntelliCAD has a bar for typing commands and a series of icons arranged around the drawing area which facilitate and speed up your use of the various functions. There are pull-down menus, which, like command aliases and tool bars, can be personalized to suit your needs, with commands, macros, and scripts. Likewise, the management of Layouts and blocks are compatible, and these can be managed and inserted with the same commands and options as AutoCAD.

Multidocument

progeCAD supports Multidocument editing. This means that it is possible to open more than one drawing in the same work session speeding up and simplifying your work.

eTransmit *

A utility for gathering, compacting and transmitting DWG files. External references (xref), fonts, shape files, images and other supporting documents. Easily package all necessary files required to ship with a drawing to make it render correctly at a different location.

Find & Replace *

Automatically find (and replace) strings of text in your drawings, including Text, Attributes, Hyperlink, and Dimension entities.

Wblock Manager

Block export management. Speed up your custom library creation. This is a useful complement to the iCADLib module, progeCAD's Exclusive Visual Block Manager, exclusive to progeCAD's version of IntelliCAD.

Battman (Attribute definition local editing) *

Change a block's attribute definition, text, justification, layer, position etc.

DWG Explorer *

Windows Explorer style dialog for dwg object property browsing.

Double LINE *

This command allows the user to draw a continuous double line by using straight line segments and arcs.

- The line's ends can be closed and the angles can be adjusted automatically.

- The width of the double line can be adjusted at any point.
- The beginning and the end of the line can be broken at the intersecting point of existing objects.

The “DOUBLE LINE” command greatly speeds up and simplifies drawing of walls, pipelines, hvac, any objects that require parallel lines to display.

Recovery manager *

Easy recover of drawings through the graphic interface, in the event of crashes, or drawings which may need recovery after you receive them

Cloud Drive Support

Save and open drawings on Cloud! progeCAD Cloud makes it easy for you to reach any of your drawings wherever you are. What is more, it is an optimal way of sharing drawings with your team and customers. progeCAD Cloud supports the major cloud services for file sharing and syncing like DropBox, Google Drive and Microsoft One Drive. progeCAD configuration settings are being saved on Cloud and then can be easily exported to another PC.

Development (AutoLISP, SDS, VBA)

Applications to automate your processes can be developed in any of the different programming languages included with progeCAD IntelliCAD.

- **AutoLISP**
- **SDS (C++)**
- **Microsoft’s Visual Basic for Applications (VBA)**
- COM automation support
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External VBA files *

Unlike the standard IntelliCAD engine, progeCAD 2011 Professional loads external .vbi files, which are essential for VBA applications development.

Updates

All updates to progeCAD are automatically applied upon release and approval by the user, or, if preferable, made available for manual install.

Courtesy of [progeCAD USA](http://www.progecad.us)

www.progecad.us

1-503-946-6600