



Hersteller: CAD Manufacturing Solutions, Inc.  
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CMS IntelliCAD® 7.1 PROFESSIONAL EDITION  
CAD- / IntelliCAD- Software

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## **CMS IntelliCAD® 7.1 - intelligent und bezahlbar - mit deutscher Bedieneroberfläche**

CMS IntelliCAD® ist die intelligente und bezahlbare CAD-Software Lösung. Es verwendet eine bekannte und benutzerfreundliche Bedieneroberfläche. CMS IntelliCAD® ist voll ausgestattet für Ingenieure, Architekten, Berater und für alle, die CAD-Zeichnungen als Datenformat wählen und diese mit ihren (Geschäfts-)Partnern austauschen möchten. CMS IntelliCAD® enthält eine vollständige Palette von 2D-und 3D-AutoCAD-kompatiblen Zeichen-Werkzeugen und ist voll programmierbar mit hunderten anderer Third Party Anwendungen. CMS IntelliCAD® bietet konkurrenzlose Kompatibilität zu Autodesk, AutoCAD® und anderen IntelliCAD-Lösungen.

**Die Professional Version** verfügt zusätzlich über ACIS Solid Modeling, Rendering und Lighting (als optionales ADD-ON), Advanced Raster Control, IRX Support und Microsoft VSTA (Visual Studio Tools for Applications) Programmierung.

## CMS IntelliCAD® 7.1 PRO – Professional Edition

CMS IntelliCAD® is the intelligent and affordable full-featured CAD Software software and is fully programmable with hundreds of third party solutions. CMS IntelliCAD® also offers a full suite of 2D and 3D AutoCAD® software compatible drawing tools! choice for engineers, architects and consultants, or anyone who communicates using CAD drawings. It is designed to give you unrivaled compatibility with Autodesk® AutoCAD® software and is fully programmable with hundreds of third party solutions. CMS IntelliCAD® also offers a full suite of 2D and 3D AutoCAD® software compatible drawing tools!

**CMS IntelliCAD®7.1 Professional** includes all the features of the Standard edition plus ACIS Solid Modeling, Rendering and lighting (as optional ADD-ON), advanced Raster control, IRX support and Microsoft VSTA programming.

### Vergleichstabelle: CMS IntelliCAD® 7                      Standard - Professional

	STD	PRO
Native AutoCAD open drawing *.dwg file support from v2.5-2012	•	•
DXF, DWT, Autodesk DWF™ and Adobe PDF file support	•	•
Xref Manager, Xref and direct Block edition	•	•
Support for AutoCAD 3D surface commands	•	•
ACIS solids modeling and editing - Spatial Release 12		•
LISP support (including DCL)	•	•
Microsoft Visual Studio Tools for Applications (VSTA 2.0)		•
DRX/IRX interface is available for developers to create custom entities	•	•
Photorealistic 3D Rendering and lighting as OPTIONAL add-on		•
Drawing Explorer™, layers, blocks, lines, truetype font & truecolor support	•	•
Graphical Block, line and text types Preview	•	•
Microsoft ActiveX support, including in-place editing	•	•
Visual Menu Customization	•	•
Raster Image insertion and advanced control		•
Right-mouse click to edit properties of multiple selected entries	•	•
Work with Multiple Open Drawing	•	•
Minimum System Requirements free RAM/HD Space for Full Installation	100Mb/312Mb	

On the following pages you can inform about the main features of CMS IntelliCAD®7.1 Standard and Professional version.

## **1. COMPATIBILITY**

### **Unrivaled Autodesk AutoCAD® Compatibility of CMS IntelliCAD**

CMS IntelliCAD® 7 provides a high degree of compatibility with the AutoCAD® software command set, as well as LISP and ADS. That means you can get to work immediately using the AutoCAD® software files, commands and applications you rely on.

### **AutoCAD® & Native DWG Support - including version 2.5-2012**

Like AutoCAD® software and AutoCAD LT® software, IntelliCAD® uses .dwg file as its native file format. IntelliCAD® opens, edits, and saves any existing .dwg file files saved in version 2.5 through 2010, without conversion or data loss. That makes CMS IntelliCAD® 7 more compatible with older versions of AutoCAD® software than AutoCAD® software itself!

### **3-D Surface Commands**

IntelliCAD®'s sophisticated 3-D capability allows creation of high-quality 3-D models. You can display them as wireframes, with hidden lines removed, or with surface shading.

IntelliCAD® 7 PRO supports ACIS solid modeling. IntelliCAD® 7 PRO preserves and round trips any ACIS 3-D data it encounters in AutoCAD® software-created drawing files.

### **Autodesk Development System (ADS) support**

To run your custom Autodesk Development System (ADS) applications in IntelliCAD, simply recompile them using the libraries included on the IntelliCAD® CD-ROM. That's all it takes. Prominent third-party developers are recompiling their popular ADS and C++ applications to run with IntelliCAD, too.

"IntelliCAD supports ADS very well. Several developers have reported being able to port their applications successfully to IntelliCAD with just a simple recompile." - Evan Yares, Byte Magazine, February 1998

### **ACIS 3D solid modeling (PRO edition)**

CMS IntelliCAD®'s full version is able create, edit, import and export ACIS .sat 3D solid files. PRO users can download and install and use CMS IntelliCAD® Traceparts 1.0 for FREE. From CMS IntelliCAD® it's possible to access more than 1 million part drawings in .dwg file, .dxf file and solid 3D ACIS file format.

CMS IntelliCAD® 7 PRO supports ACIS solid modeling. CMS IntelliCAD® 7 PRO preserves and round trips any ACIS 3-D data it encounters in AutoCAD® software-created drawing files or SAT drawing files created in other 3D cad package.

## **Digitizer Support**

Many drafting departments have established routines using digitizers within their CAD workgroup. For CAD departments that utilize digitizers as input devices, IntelliCAD® is now a viable option, providing advanced Windows features and AutoCAD® software-compatibility at an affordable price. IntelliCAD® supports both tablet mode for tracing and the use of tablet menus for command input.

## **AutoLISP support (including .DCL)**

IntelliCAD® preserves your investment in existing custom applications by supporting the LISP programming language. You can run LISP applications that reference any of the hundreds of AutoCAD® software commands with little or no modification. What's more, IntelliCAD® reads DCL files that contain dialog control language statements.

"I find IntelliCAD® to be a very impressive CAD engine. The compatibility with our existing AutoCAD® software 12 DOS Drawings and LISP created over the years is an absolute plus." - Richard Nichols, Fagan Engineers

## **Support for AutoCAD® software command line**

IntelliCAD® supports hundreds of AutoCAD® software commands. Select AutoCAD® software commands from the pull-down menus and toolbar icons, or type AutoCAD® software command syntax at the optional command line prompt - whichever best fits your work style.

"I'm an experienced AutoCAD® user... [I] tried dozens of the most obscure AutoCAD® commands I know, and found only a very few that haven't been implemented in IntelliCAD. - Evan Yares, Byte Magazine, February 1998

"Anyone using AutoCAD® can open this program up and immediately be productive using their AutoCAD® skills. This is a very exciting product." - Barry Bowen, Barry Bowen Associates, Memphis, TN

## **IntelliCAD®: AutoCAD® software Menu (MNU) & Script (SCR) Files**

IntelliCAD® supports AutoCAD® software menus (MNU), dialog boxes (DCL), fonts (SHX), scripts (SCR), and symbol libraries, so you can easily transfer custom AutoCAD® software environments into IntelliCAD® and continue working in your favorite drafting environment.

## **Raster Image Display**

IntelliCAD® lets you view and export WMF, EMF (Enhanced Metafile), and SLD (slide) files. It also displays any BMP, GIF, JPG, TIF, PCX, and CALS Type 1 images that are embedded in .dwg file files using the raster technology licensed from Adeko.

## **2. PRODUCTIVITY**

### **Exceptional Productivity**

IntelliCAD® offers smooth Microsoft Windows integration plus many unique productivity features.

### **Photorealistic 3-D Rendering**

IntelliCAD® lets you easily create 3-D designs using the 3-D drawing tools. You can display hidden-line, shaded, or fully rendered versions of your 3-D models or your existing 3-D libraries with a click of a button. You can choose professional-quality, preset options for lighting, surface materials, and backgrounds. With IntelliCAD®'s sophisticated raytracing capabilities, you can produce photorealistic 3-D renderings. Requires license of rendering technology from Lightwork Design.

### **Video on CMS IntelliCAD® rendering features**

- Other rendering controls include:
  - A Material Property Editor that lets you set the transparency and a reflectance type for the rendering. Choose from shiny plastic (the default), dull plastic, shiny metal, dull metal, mirror and glass.
- Material Editor
  - Lights editing lets you model four light types: Spot, Point, Distant or Parallel, and Ambient.
- Lighting Studio
  - An Image Background Editor lets you modify the background (those parts of an image not covered by the rendering model). Choose from constant (single color), graduated (blend of two colors), clouds, or an imported image.
- Background rendering

### **Microsoft ActiveX support including in-place editing**

IntelliCAD® fully supports Microsoft ActiveX. You can edit embedded ActiveX objects — including Visio Technical drawings, Microsoft Word documents, and Microsoft Excel charts — contained in IntelliCAD® drawings. You can also edit IntelliCAD® drawings in-place from within any ActiveX-compatible program.

## **Drawing Explorer™ for managing layers, blocks, line types, and more**

With IntelliCAD®'s Drawing Explorer™, you can browse the contents of your drawings as easily as you browse files in the Windows Explorer. Open multiple drawings in the Drawing Explorer™ and then view all of the layers, blocks, linetypes, styles, views, and user coordinate systems currently in use. You can even copy and paste elements between drawings, or switch to a thumbnail view to preview blocks. This means you can easily make use of existing designs and drawing setups.

"IntelliCAD® is much more intuitive than AutoCAD® software, with better on-screen hinting and help." - Paul Nishman, NISH

### **Graphical Block Preview**

IntelliCAD® provides the Drawing Explorer™, which lets you browse the contents of drawings as easily as you browse files in the Windows Explorer. Open multiple drawings in the Drawing Explorer and then view all of the layers, blocks, linetypes, styles, views, and coordinate systems in use. Within the Drawing Explorer, you can copy and paste between drawings, or switch to a thumbnail view to preview blocks.

### **Work with multiple open drawings (MDI)**

According to the AutoCAD® software Users Group International, the Multiple Document Interface (MDI) is one of the most requested features for AutoCAD® software. IntelliCAD® fully supports MDI. That means you can:

- Review two or more drawings at once.
- Easily copy objects from one drawing to another.
- Copy elements, such as layers, linetypes, and text styles, from one drawing to another using the Drawing Explorer.
- Load and edit drawings that appear as xref (externally referenced) drawings.

Thanks to IntelliCAD®'s MDI support, you can set up your work environment more efficiently by opening multiple drawings simultaneously in a single drawing session.

### **Real Time Pan & Zoom**

IntelliCAD® allows users to work with their drawings using Real Time Pan and Zoom. This functionality makes viewing and navigating around your .Autodesk® .dwg file™ format drawing files easier and more productive.

### **Right-mouse click to edit properties of multiple selected entities**

With IntelliCAD®, you can modify the properties of more than one entity at a time. For example, you might use IntelliCAD®'s "Entprop" command to select all entities on a particular layer, then use the Layer text box to move those entities to another layer. You could also change all the entities in one color to

another color.

" I really like how the cursor (or pick point) ignores the snap setting until the command is executed. This makes it much easier for the object selection with snap turned on." - James Dory, James Dory Design

## **Script Recorder**

Like a macro in Word, a script mimics what you type, including command names, options and coordinates. IntelliCAD® fully supports scripting. In fact, it reads and writes the same script files (.SCR) that work in AutoCAD® software.

IntelliCAD®, however, provides several scripting enhancements that vastly improve your productivity:

- An automatic launch feature:  
Double-click an SCR script file in Windows Explorer and you'll open IntelliCAD® and run the script instantly.
- A script recorder:  
Use the script recorder to automatically capture your keystrokes and mouse actions including menu picks, toolbar button selections, and screen picks. To review the script, simply play it back.
- A script append feature:  
Use this feature to add new scripts to existing ones.
- Enhanced scripting commands:  
IntelliCAD®'s commands include Recscript, which begins the recording, and Stopscript, which stops any script that's running.

## **Unlimited "Undo" & "Redo"**

Go ahead and try out all your drawing ideas. IntelliCAD® lets you "Undo and "Redo" an unlimited number of editing actions. (With AutoCAD® software, you can "Undo" an unlimited number of actions, but you can only "Redo" one.)

## **Microsoft Visual Basic for Applications (VBA)**

IntelliCAD® 7 PRO includes a full implementation of Microsoft Visual Basic, Applications Edition (VBA), a development environment that simplifies the creation and execution of Visual Basic applications.

## **Visual customization of menus and toolbar**

Place the tools, commands, and shortcuts you need at your fingertips without resorting to programming. Simply drag and drop tools to create custom toolbars, or modify menus with a few clicks of your mouse.

IntelliCAD® also supports AutoCAD® software menus, fonts, scripts, and symbol libraries, so you can easily transfer your custom AutoCAD® software environment into IntelliCAD®.

## **3. NEW FEATURES**

### **What's NEW in CMS IntelliCAD® 7.1**

CMS IntelliCAD 7.1 is a maintenance release that contains many improvements since the IntelliCAD 7.0 release, while also including performance enhancements throughout in areas such as printing, zooming, multiline text, and .pdf file export. CMS IntelliCAD 7.1 also supports new features: attach .dgn files, drag-and-drop layouts between drawings, invert image clips (raster image support is available in Professional versions), and more.

CMS IntelliCAD 7.1 integrates Open Design Alliance Teigha® version 3.4.1 released earlier this year.

### **What's NEW in CMS IntelliCAD®7.0 PRO**

– The latest IntelliCAD technology available TODAY

#### **Interactive Graphic Elements**

- Selection crossing/window shows transparent colorization.
- Selected entities appear in color during dragging.
- Point indicators to help in graphics creation (e.g., when drawing a 3-point circle).
- Paperspace sheet color.
- Automatic creation of mview viewport on initial activation of Layout tab.

#### **User Interface**

- Pulldown menus include support for re-organized commands and the display of icons.
- Several dialogs include 24-bit icons or have been re-written.
- New docking properties pane with the ability to pin or hide the window.
- IntelliCAD Drawing Explorer is enhanced with 24-bit icons, improved layer handling with multi-select support, icons in the list control, and improved usability.
- Improvements in handling blocks, views, dimensions, and text styles.
- Improvements to snap and selection.
- Multiple windows can be open with different views or layouts.
- Paperspace supports non-rectangular viewports.

#### **Display Devices**

- New support for choosing a display device directly from the status bar.
- Choose between DirectX, OpenGL, and the computer's default device.
- Three new system variables for managing display devices: GSCURRENT, GSPRIMARY, and GSALT.

## **Graphics Display**

- Real-time hidden-line and shaded viewing.
- Display gradient hatches.
- Improved draw order and dragging in color.
- Non-rectangular viewports.
- Display proxies in blocks and xreferences.
- Display ADT and Civil 3D objects.
- DWF and DGN overlays.

## **APIs**

- IntelliCAD 7 is now using DWGdirect as its internal database; the DRX interface is available for developers to create custom entities.
- Support for Visual Studio Tools for Applications.
- SDS/ADS now supports UNICODE.

## **More New Features**

- Direct integration with the DWGdirect libraries allows for faster ODA updates.
- New Page Setup Manager.
- Enhanced Print dialog.
- Export STL files.
- LAYBYENT command allows you to select an entity to control layer settings or VPLayer settings.
- REFEDIT command allows you to edit blocks even if they are in external drawings (Xrefs).
- GSCURRENT allows you to change graphics display devices.
- Options dialog allows you to change languages on the fly.
- Dozens of new hatch patterns.
- New FEEDBACK command for users to send in feedback.
- Direct access to Developer Help from the Help menu.
- Direct access to the User Guide PDF from the Help menu.
- Support for visual styles.
- New 3D orbit command for easier dynamic rotation and 3D viewing.
- New dimension styles.
- Ability to display print styles in paper space
- Support for associative dimensions
- Support for relative paths for images and Xreferences.

## **Performance Enhancements**

- Opening and saving files.
- Real-time rotating, hidden line, and shading.
- Double buffer display.
- Because DWGdirect is the database, more modern data structures are used which are faster (maps and vectors verses arrays).

- Demand loading features as DRX applications, including the Properties pane, IntelliCAD Explorer, External Reference Manager, Image Manager, solids creation/editing, mesh entity creation, and more.
- The drawing database is persistent and this speeds access for saving, printing, layout issues, etc.
- Performance has been enhanced considerably when using real-time zoom, real-time pan, opening and saving drawings.
- Depending on the hardware configuration, running CMS IntelliCAD®plus opening a 10Mb .dwg file will take about 10 seconds to load.

## **What was NEW in CMS IntelliCAD® 6.6 PRO**

Now you can run it without installing it!

### **Toolbar and menu icons**

The IntelliCAD user interface has been enhanced with new 24-bit icons for all color toolbar icons and menus.

- 2d toolbar
- Dimensioning toolbar
- Layer toolbar

### **Use polar tracking**

Polar tracking is a new tool used to help you draw with precision. When polar tracking is turned on, guides display on the screen automatically at specified polar angle increments.

### **Check the spelling of text**

You can check the spelling of single-line text, multiline text, paragraph text, attributes, attribute definitions, and dimension text. Additional features include loading dictionaries from different sources, including various languages, and adding your own words to a custom dictionary.

### **Copy multiple entities**

Now it's easier to copy multiple entities. IntelliCAD defaults to prompting for additional copies of selected entities during the Copy command.

### **Work with additional image formats**

The number of image formats available for drawings has been expanded. You can include images in the following formats: ECW, JPG 2000, ERS, ALG, HDR,

DAT, DOQ, FST, NTF, ASC, IMG, DEM, DDF, DT0 and DT1, and HDF (including MET, L1R, and L1G).

## **Layer toolbar**

You can now use the Layer toolbar to specify layout-specific layer settings. The Layer toolbar also displays more text, making it easier to use large layer lists.

## **Customize the status bar and menus using DIESEL**

You can use DIESEL from the command line, in MNU menu files, and in LISP to customize the status bar and menus. Use new and enhanced system variables

New or enhanced system variables include:

AUTOSNAP, COPYMODE, DCTCUST, DCTMAIN, DCTMAINPATH, DIMTFAC, POLARADDANG, POLARANG, POLARDIST, POLARMODE, SNAPTTYPE, and TRACKPATH.

## **What was New in IntelliCAD 6.4**

IntelliCAD 6.4 uses the latest advances in the ODA DWGdirect 2.2 libraries, based on the industry standard OpenDWG, which is widely supported by commercial software vendors, and the engineering community. IntelliCAD 6.4 utilizes the new ODA libraries to interpret the updated DWG 2007 file format. IntelliCAD 6.4 will read, display, and write DWG 2007 files, which include 10 new entity types and over 80 new system variables.

Although the focus of v6.4 development has centered on DWG 2007 compatibility, other major enhancements can be found in this release:

- A new color book editor provides the ability to effectively organize, create, and edit color books.
- Improved user interface for PDF export provides more flexible output options.
- Dozens of new events and a new Application Preferences object were added to the COM API.
- A new Code Page Manager command allows you to convert drawings or set your code page language preferences when opening drawings.
- Multiple enhancements for raster image handling include:
  - Improved user interface
  - 4x increase in display performance for large images
  - Lower memory footprint for large images
  - Improved performance for drawings with a large number of image.
  - Better support for monochrome images
  - New COM API for creating and manipulating image entities

In addition to the new features and DWG 2007 support, hundreds of repairs and minor improvements were added as well, including:

- Setup now supports Microsoft Windows Vista™

- Draworder enhancements for blocks and external references
- Viewport enhancements, including locking viewports and assigning a UCS for viewports
- Snapping to model space entities from paper space; picking model space entities from paper space for creating dimensions and other dimensioning improvements
- The Paste command allows you to specify an insertion point
- Performance improvements with drawings containing large meshes
- Improved performance and reduced screen flicker when using dynamic zoom and pan.
- The Tangent-Tangent-Tangent option is now available for circle creation

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