

DoubleCAD™ Advantages

As Compared to AutoCAD LT® (2D)

DoubleCAD™ XT PRO v2.0

DoubleCAD™ XT v2.0

AutoCAD LT® 2010

Price	\$695	FREE	\$1,200
USABILITY			
Familiar CAD Environment	✓	✓	✓
Clicking menu items, drawing, editing tools, edit and modify tools, and command line.			
Familiar Intelligent Cursor	✓	✓	✓
Data entry points and feedback are visible next to the cursor so there's no need to look down at the command line. Speeds setting and accuracy.			
Fully Customizable User Interface and Preferences	✓	✓	✓
Change toolbar settings, menu items, toolbars, etc. Customize the program to maximize your drawing efficiency.			
Advanced Handle-Based Editing	PLAY	✓	✓
Instant access to sizing, scaling, moving, rotating, and positioning of any selected object without having to explicitly start other tools.			
Easy Polyline Editing	✓	✓	✓
Easily add, move, delete and modify nodes of polylines, arcs splines and bezzers with the Edit tool.			
Smart Dimension Tool	PLAY	✓	✓
Rapidly apply the appropriate dimension for the object type or for groups of objects. The Smart Dimension tool automatically selects the appropriate dimension for the type of entity (i.e., arc, line, circle) being dimensioned. No need to have to go back to the Dimension menu to select a different dimension type each time a different type of object needs dimensioning.			
Object Snap Prioritization	✓	✓	✓
Customize relative prioritization of snaps, minimizing tedious manual control.			
One-Step Splitting of Objects	✓	✓	✓
Command-line driven (command: split) in one step.			
Input Multiple Unit Types On-The-Fly	✓	✓	✓
Draw using a wide range of standard units of measure at anytime without having to change options. Simply specify the unit as you input the values.			
True Units Retained Between Drawings with Different Unit Settings	✓	✓	✓
Clicking on existing or new items, resulting in blocks into a drawing created in metric, or any other combination of units – requires no re-sizing or re-scaling.			
Explode Viewports	✓	✓	✓
Convert the visible geometry in your viewports into flattened, editable 2D geometry within your layouts, even hidden line views. Your conceptual views are also converted into standard drawings.			
COMPATIBILITY			
Open and Save As .DWG (AutoCAD® Release 14 to 2009) and .DWF	✓	✓	✓
Save/OT compatible objects and parameters for intelligent use in AutoCAD and AutoCAD LT. DoubleCAD .DWG files with ADT-compatible objects can be brought into AutoCAD products and retain their self-healing properties. For example, bring a DoubleCAD .DWG file with walls and blocks into AutoCAD LT and walls continue to self-heal within AutoCAD LT as those blocks are moved. DoubleCAD is a great way to head-start your project.			
Open and Save As 2010 .DWG	Coming	Coming	✓
Google™ SketchUp™ File Import	PLAY	✓	✓
DoubleCAD imports all visible geometry, layers, and components, converts all components to DoubleCAD blocks to optimize drawing performance, and creates a perspective from each SketchUp scene, thereby saving time by automatically creating viewports with the correct layer visibility and 2D or perspective view properties. These perspective views are also immediately ready for dimensioning and annotation. Develop construction documents quickly from SketchUp 6 and 7 models.			
Open and Save .IGES, .3DM (Inventor), .3DS (Autodesk 3ds Max), .STL, .SAT, .STEP, & .OBJ	✓	✓	✓
Mechanical drawings can be brought in for advanced detailing projects or translations from almost any MCAD application. Beyond .DWG, DoubleCAD is an excellent companion to SolidWorks, SolidEdge, Pro/E, and other CAD programs.			
File Conversion Tool for Batch File Conversion	✓	✓	✓
	30	9	4
Import and Open File Formats	30	12	6
Export, Save As, and Publish File Formats	30	12	6
ARCHITECTURAL			
Self-Healing Walls (ACA/ADT Compatible)	PLAY	✓	✓
Self-healing walls (straight and curved, ends and intersections) are a joy to use when creating floorplans. With self-healing walls, there is no longer a need to add a wall after inserting a window or door, as the wall will automatically heal to incorporate these architectural objects. Healing also works when these objects are removed from a wall.			
Self-Aligning Blocks	✓	✓	✓
All blocks are recognized when inserted into DoubleCAD's ADT-compatible walls. Walls automatically heal around blocks as appropriate. (SEE ABOVE VIDEO).			
Intelligent (Parametric), Attribute-Rich Architectural Objects:	PLAY	✓	✓
DoubleCAD's Architectural Objects are all fully parametric, meaning that all geometric (i.e. height, width, depth) and style (shape, type, material) attributes can be easily adjusted when the object is selected. Doors and windows (self-aligning), stairs, and walls can be further customized with application of materials to the different parts of each object.			
Component Walls	✓	✓	✓
Doors	✓	✓	✓
Windows	✓	✓	✓
Roofs	✓	✓	✓
Stairs	✓	✓	✓
Stairs	✓	✓	✓
Rails	✓	✓	✓
Insert a window into a wall and adjust	Seconds	Seconds	Minutes
Change a single door into a double door and adjust	Seconds	Minutes	Minutes
Profiles for Doors/Windows for custom shapes	✓	✓	✓
Architectural Sections/Elevations (3D-to-2D Documentation)	✓	✓	✓
Enormous time savings in 3D-to-2D conversion time. Architectural objects are ADT compatible. They include a full set of 3D properties that can be fully exposed and utilized for creating 2D elevations and sectional views.			
Architectural Markers (Self Incrementing)	✓	✓	✓
Insert markers for further identification, such as notes, doors or windows in your architectural plans. Great for creating legends, call outs, or empty mapping points and adding notes to your drawings. Four different marker styles are included.			
Schedule Tool and Wizard	✓	✓	✓
Create a schedule drawing the number of Doors and Windows used in your drawing. The Wizards allow you to create and fill the schedule table with drawing information faster and easier. Adding a window or door into a drawing dynamically updates the schedule. User has complete control over how text will appear.			
Style Manager	✓	✓	✓
Allows for complete design control of the style of each of the components of your architectural drawing, including dimensions, text, and all architectural object types. The Style Manager includes pre-defined, fully parametric styles for doors, windows, walls, dimensions, schedules, tables and text. These pre-defined styles can be customized to your preferences and new styles can be easily added.			
MECHANICAL			
3D Geometric and Dimensional Constraints	PLAY	✓	✓
Parametric sketching allows for quick "what-if" design choice iterations. Draw quickly and clean up by forcing design rules on the drawing. Use formulaic driving dimensions. Includes new, powerful pattern constraints.			
Time to rework or perform "What If" iterations	Seconds	Minutes & Hours	Minutes & Hours
Gear Contour Tool	✓	✓	✓
Automatically generate gears. Specify the number of teeth, diametral, and circular pitch, and pressure angle, and then with a single click, your gear is drawn. Both simple profiles and polylines with any warpage can be created.			
Surface Roughness Tool	✓	✓	✓
Parametric symbol used to describe surface finish requirements when machining the surface of an object. Parameters that can be defined include amount of stock to be removed when finishing, by type, maximum roughness spacing, cutoff rating, roughness height, and rating.			
Weld Symbol Tool	✓	✓	✓
Parametric symbol used to fully describe the welding requirements of each weld in your design. Parameters include: Finish, Contour, Groove Angle, Root Opening, T1 different Arrow and Other side symbols, and Tail Reference designation.			
Adhesive Symbol Tool	✓	✓	✓
GENERAL PURPOSE CAPABILITIES			
Full-featured 2D Drawing, Editing, and Modifying	✓	✓	✓
All tools, Array Copy, Array Fill, Chamfer tool, Circle tools, Construction line tool, Copy tool, Diameter dimension, Dimension tools, Ellipse tools, Fillet tool, Fillets, Hatches, Line tool, Linear dimension, Modify tools, Multi-line text, Points, Polygon tool, Polyline tool, Radial Copy, Radial Fill, Radius Dimension, Rectangle tool, Single line text, Snap tool, Spline tool, Tables, Trim tool, etc. All the tools you need to create professional 2D designs for any engineering, architectural, or precision design discipline.			
Xrefs	✓	✓	Import but not create
External references, or "xrefs," are one of the keys to efficient drafting, especially of building plans. Xrefs help you minimize duplication of geometry, thereby making editing more efficient and helping to keep drawings in sync. Xrefs also can help keep file sizes down when you use the same large components (e.g., elaborate title blocks) in multiple drawings. Also, in a multidisciplinary work environment, with other concurrent drawing of data. DoubleCAD XT Pro allows xrefs to be created from any supported file format. Xrefs whose sections are detailed using the Drafting Palette remain associative when the original file is changed and the xref is refreshed.			
Drawing Compare	✓	✓	✓
Instantly compare two DoubleCAD, .DWG, .TGW, .JPG, .BMP, or .PNG drawings for all visual differences.			
Hatch Pattern Creator	✓	✓	✓
Allows you to easily create, modify, and combine hatch patterns with control over scaling, orientation, and position. Combined with automatic detection of repeating patterns, making new hatch patterns is now quick and easy.			
Transparent and Bitmap Fills	PLAY	✓	✓
Create custom gradient fills, hatch patterns, and bitmap fills. Layering transparent fills is unique and dramatically improves presentation of design intent.			
Draw Order by Layer	✓	✓	✓
Layers can be assigned a draw order numerically.			
Hide Objects Regardless of Layer	✓	✓	✓
Ability to hide objects without layer dependency.			
Bezier Curves	✓	✓	✓
Create and edit Bezier curves easily. Using weighted Bezier handles, it is simple to create Bezzers with smooth and cusped nodes for more realistic organic curves.			
Variables Palette	✓	✓	✓
Circle formulas with preset values, formulas and relationships that can be used while drawing and editing objects.			
Enhanced Format	✓	✓	✓
DoubleCAD's enhanced Format Painter matches more than 2x as many object properties as AutoCAD's Match Properties.			
Brush Style Editor	✓	✓	✓
Brush Style Editor for combining, layering, and creating new gradient and bitmap fills types (even hatch patterns).			
Variable Driven Parametric Constraints	✓	✓	✓
The DoubleCAD XT Pro Variables Palette can be conjunction with constraints, creating driving dimensions. When Auto Add Constraints is turned on, the Smart Dimension tool, or other standard dimension tools, create variables that are inserted into the Variables Palette and which are associated with the object's dimensions inside DoubleCAD. These variables become driving dimensions. The palette is a bit like a standard spreadsheet, and formulas may be used to define relationships between different variables. A number of mathematical functions are also available to calculate dimensions.			
Embed Image Files in Drawings	✓	✓	✓
Embed images directly into the drawing (not as external references).			
Package Related Dependencies for Encapsulation (eTransmit)	✓	✓	✓
Drafting & Detailing Palette	PLAY	✓	✓
Powerful drafting and drafting tools. Use surface models or ACIS® solid models to create nested, associative sections that can be dimensioned and hatched in paper space (i.e., cross sections of cross sections).			
Drafting Palette details of walls are associative when changes are refreshed.			
Flatten 3D to 2D Views	✓	✓	✓
Rapidly update construction documents and part detail drawings as a companion to the CAD Designer's or Architect's changes regardless of their design application if the file is saved in any importable formats.			
Quickly create horizontal or vertical sections of 3D architectural objects to communicate details and design intent.	✓	✓	✓
Pre-defined settings for generating horizontal and vertical sections and sectional views of imported 3D models.	✓	✓	✓
Parametric Part Manager	PLAY	✓	✓
Create reusable 3D and 2D parts that are parametrically defined. Assigned parameters become a part of the object's properties.			
Dynamic Blocks	✓	✓	✓
Create 2D blocks only.			
Image Manager (preload, organize and manage raster images)	✓	✓	✓
Access all images preloaded or extracted from your drawing. Image visualization properties can be defined, including rendering output engine and tiling quality.			
Clipping of Blimpped Images (closed curves and polylines)	✓	✓	✓
Expand your presentation capabilities by importing graphic file and clipping them using any closed 2D object, including splines. Files can include BMP, GIF, PNG, TIF, PCX, ICO, TGA and WMF.			
Trace Image-to-Vector Tool	✓	✓	✓
3D mapped images to vector images.			
3D Perspective and Ortho Views	✓	✓	✓
Enhanced presentation quality.			
Database Tools	✓	✓	✓
Attach data to any object; extract data from any object; organize, compile output to tables, spreadsheets or databases.			
SUPPORT			
Free Forum	✓	✓	✓
Includes 12-Month Premium Email	✓	✓	✓
Includes 12-Month Premium Phone	✓	✓	✓
Available Software Developers Kit (SDK)	✓	✓	✓

* Yellow indicates high-priority wish list items not available in AutoCAD LT.