

DoubleCAD™ Advantages As Compared to AutoCAD LT® (2D)				DoubleCAD™ XT Pro	DoubleCAD™ XT	AutoCAD LT® 2010
Price		\$695	FREE	\$1,200		
Usability						
Familiar CAD Environment	Familiar menu bar, menu items, drawing 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 editing and accuracy.	✓	✓	✓		
Fully Customizable User Interface and Preferences	Options box for changing entry items, toolbars, etc. Customizes the program to maximize your drawing efficiency.	✓	✓	✓		
Advanced Handle-Based Editing	Instant access to sizing, scaling, moving, rotating, and positioning of any selected object without having to explicitly start other tools.	PLAY	✓	✓		
Easy Polyline Editing	Easily add, move, delete and modify nodes of polylines, arcs splines and beziers with the Edit tool.	✓	✓	✓		
Smart Dimension Tool	Instantly 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.	PLAY	✓	✓		
Object Snap Prioritization	Customize relative prioritization of snaps, minimizing tedious manual control.	✓	✓	✓		
One-Step Splitting of Objects	Conveniently split objects (including circles) 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 changes options. Simply specify the unit as you input the values.	✓	✓	✓		
True Units Retained Between Drawings with Different Unit Settings	Opening or inserting a drawing created in inches into a drawing created in meters -- or any other combination of units -- requires no resizing or rescaling.	✓	✓	✓		
Compatibility						
Open and Save As .DWG (AutoCAD® Release 14 to 2009) and .DWF		✓	✓	✓		
	Save ADT-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	DoubleCAD™ imports all visible geometry, layers, and components, converts all components to DoubleCAD blocks to optimize drawing performance, and creates a perspective view 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.	PLAY	✓	✓		
Open and Save .IGES, .3DM (Rhinoconvert®), .3DS (Autodesk® 3ds Max®), .STL, .SAT, .STEP, and .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.	✓				
Import and Open File Formats		30	9	4		
Export, Save As, and Publish File Formats		30	12	6		
Architectural						
Self-Healing Walls (ACA/ADT Compatible)	Self-healing walls (designs and current ends and intersections) are a joy to use when creating floorplans. With self-healing walls, there is no longer a need to re-edit the 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.	PLAY	✓	✓		
Self-Aligning Blocks	All blocks are correctly aligned when inserted into DoubleCAD™s ADT-compatible walls. Walls automatically heal around blocks as appropriate. (SEE ABOVE VIDEO)		✓	✓		
Intelligent (Parametric), Attribute-Rich Architectural Objects:	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 rails can be further customized with application of materials to the different parts of each object.	PLAY				
Component Walls			✓			
Doors			✓			
Windows			✓			
Roofs			✓			
Slabs			✓			
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		
2D Architectural Objects Are 3D-Ready	Enormous time savings in 2D to 3D conversion time. Because architectural objects are ADT compatible, they include a full set of 3D properties that can be fully exposed and utilized in CAD programs such as AutoCAD® Architecture or AutoCAD® Architectural Desktop.	✓				
Architectural Markers (Self Incrementing)	Insert markers to number objects such as rooms, doors or windows in your architectural plans. Great for creating legends, call outs, or simply mapping points and adding notes to your drawings. Four different marker styles are included.	✓				
Schedule Tool and Wizard	Create a schedule displaying the number of Doors and Windows used in your drawing. The Wizards allows 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						
2D Geometric and Dimensional Constraints	Variational sketching allows for quick "what if" design choice iterations. Draw quickly and clean up by forcing design rules on the drawing. Use formulae driving dimensions.	PLAY	✓			
	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 polylines and polyline with arcs versions 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, lay type, maximum roughness spacing, cutoff rating, waviness 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, 17 different Arrow and Other side symbols, and Tail Reference designation.	✓				
Adhesive Symbol Tool		✓				
General Purpose Capabilities						
Full-featured 2D Drawing, Editing, and Modifying	Arc tools, Array Copy, Array Fit, Chamfer tool, Circle tools, Construction line tool, Copy tool, Diameter dimension, Dimension tools, Ellipse tools, Fillet tool, Gradients, Hatches, Line tool, Linear dimension, Modify tools, Multi-line text, Points, Polygon tool, Polyline tool, Radial Copy, Radial Fit, 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	External references, or "xrefs", are one of the 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 synch. Xrefs also can help keep file sizes down when you use the same large components (e.g., elaborate file blocks) in multiple drawings. Also, in a multi-office/work environment, xrefs allow concurrent sharing of data. (Note: 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.)		Import but not create	✓		
Transparent and Bitmap Fills	Create custom gradient fill, hatch patterns, and bitmap fills. Layering transparent fills is unique and dramatically improves presentation of design intent.	PLAY	✓	✓		
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 Beziars with smooth and cusped nodes for more realistic organic curves.	✓	✓			
Brush Style Editor for Hatch Pattern Creation	Design and create custom hatch patterns, bitmap fills, and gradient fills within the application. No need to buy an add-on to get the job done.	✓	✓			
Variable Palette	Define variables 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.		✓			
Variable Driven Parametric Constraints	The DoubleCAD® XT Pro Variable Palette can in 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 Variable Palette and which are associated with the objects' 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	Raster images can be embedded within the native 2D file format.	✓				
Package Related Dependencies for Encapsulation (eTransmit)				✓		
Drafting & Detailing Palette	Powerful drafting and detailing tools. Use surface models or ACIS® solid models to create nested, associative sections that can be dimensioned and hatched in paperpace (i.e., cross sections of cross sections). Drafting Palette details of xrefs are associative when changes are refreshed.	PLAY	✓			
	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 portable 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.	✓				
Design Director	Organizes layer, graphic, and object categories.	✓				
Parametric Part Manager	Create reusable 2D and 3D parts that are parametrically defined. Assigned parameters become a part of the object's properties.	PLAY	✓			
Dynamic Blocks	Create 2D blocks only.			✓		
Image Manager (preload, organize and manage raster images)	Manage all bit mapped (raster) images associated with your vector drawing. Images loaded into the Image Manager can be automatically embedded or extracted from your drawing. Image visualization properties can be defined, including rendering output engine and filtering quality.	✓				
Clipping of Bitmapmed Images (closed curves and polylines)	Extend your presentation capabilities by importing graphic files 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	Raster to vector conversion of bit 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		✓				