

# ZWCAD 2012 VS AutoCAD 2012

November 8, 2011

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ZWCAD Technical Support Team

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Version:

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ZWCAD 2012 (vernum=2011.10.30(17176))

AutoCAD 2012

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PC Configuration:

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CPU: Intel® Core™2 Duo T5870 @ 2.00GHz

RAM: 2 GB

Graphic Card: Mobile Inter(R) 4 Series Express Chipset Family

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## Functional Comparison Chart

- ✓ Feature Supported
- X Feature Not Supported
- ☆ Feature Partial Supported

	ZWCAD™ 2012	AutoCAD® 2012	AutoCAD® 2012 LT
<b>COMPATIBILITY</b>			
DWG & DXF Support	✓	✓	✓
AutoCAD® Command	✓	✓	✓
AutoCAD® Menu and Alias Support	✓	✓	✓
TTF & SHX Font Support	✓	✓	✓
Resource File Support (LIN,PAT,SLD,UNT)	✓	✓	✓
Windows® Operating System Support	✓	✓	✓
<b>USER INTERACTION</b>			
Graphical User Interface	✓	✓	✓
Ribbon	X	✓	✓
ViewCube®	X	✓	X
Auto-Complete Command Entry	✓	✓	✓
<b>DRAFTING &amp; DETAILING</b>			
2D Geometric Entities	✓	✓	✓
Basic Editing Tools	✓	✓	✓
Hatch and Gradient	✓	✓	✓
Dimensioning	✓	✓	✓
Associated Dimension	X	✓	✓
Raster Images	✓	✓	✓
External References	✓	✓	✓
Pline and Spline Editing	✓	✓	✓
Multiline and Multiline Editing	✓	✓	X
Multiple Grips Editing	✓	✓	✓
Blocks and Attributes	✓	✓	✓
Dynamic Blocks	X	✓	✓
OLE Support	✓	✓	✓
In-Place MText Editor	✓	✓	✓
In-Place Reference and Attribute Editing	✓	✓	✓
Entity Snap and Tracking	✓	✓	✓
Layer Properties and Layer States	✓	✓	✓
Table	✓	✓	✓
Field	✓	✓	✓

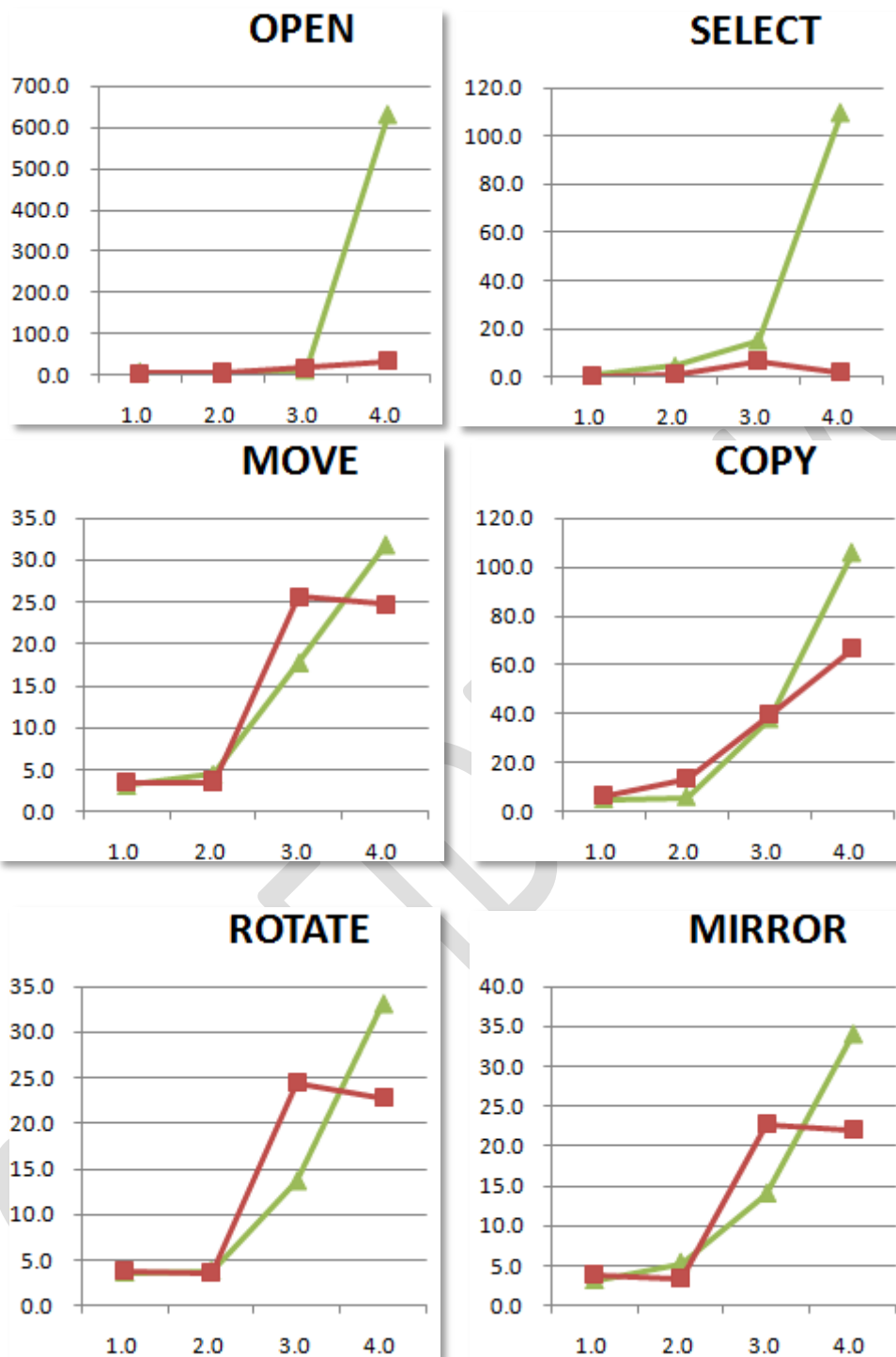
Multileaders(MLeader)	✓	✓	✓
Parametric Drawings	✓	✓	X
<b>3D MODELING &amp; SURFACING</b>			
3D Solid Modeling	✓	✓	X
3D Solid Editing	☆	✓	X
Sweeps and Lofts	✓	✓	X
Extrudes and Revolves	✓	✓	X
3D Surface Modeling	✓	✓	X
3D Surface Editing	☆	✓	X
3D Mesh Modeling	✓	✓	X
Solid Profiling (Solprof)	✓	✓	X
Point Clouds	X	✓	X
<b>ADVANCED TOOLS</b>			
Design Center	✓	✓	✓
Tool Palettes	✓	✓	✓
Sheet Set Manager	X	✓	✓
Aerial View	✓	✓	✓
Multiple Redo and Undo Facility	✓	✓	✓
Multiple Documents	✓	✓	✓
Express Tools	✓	✓	X
Quick Tools	✓	✓	✓
<b>COMMUNICATION</b>			
Plot with Plot Style and Plot Stamp	✓	✓	✓
Shade Plot	X	✓	✓
Layered PDF Plotting	✓	✓	✓
Integrated JPEG and PNG Plotter	✓	✓	✓
Publish and Export	✓	✓	✓
eTransmit	✓	✓	✓
Materials	✓	✓	X
Lights	✓	✓	X
Photorealistic Rendering	✓	✓	X
Visual Styles	✓	✓	X
<b>CUSTOMIZATION</b>			
LISP	✓	✓	X

Object ARX	ZRX	✓	X
AutoCAD® Development System (ADS)	SDS	✓	X
VBA	✓	✓	X
Interface Customization	✓	✓	✓
<b>UNIQUE</b>			
Drawing Compare	✓	X	X
Batch Plot (PLT Plot)	✓	X	X
Block Extraction	✓	X	X
Tab Environment	✓	X	X
Image with TFW coordinate file	✓	X	X

### Performance Comparison Chart

Command	File Size (MB)	Entities Number	Time (S)	
			AutoCAD 2012	ZWCAD 2012
OPEN	6.4	39819	6.8	4.0
	9.8	18985	6.5	5.5
	16.5	488105	11.0	16.2
	34.5	111867	633.0	33.2
SELECT	6.4	39819	0.6	0.4
	9.8	18985	4.5	0.8
	16.5	488105	15.1	6.7
	34.5	111867	109.8	1.8
MOVE	6.4	39819	3.2	3.5
	9.8	18985	4.5	3.6
	16.5	488105	17.8	25.6
	34.5	111867	31.8	24.8
COPY	6.4	39819	5.0	6.7
	9.8	18985	6.0	13.3
	16.5	488105	37.8	39.6
	34.5	111867	105.7	66.7
ROTATE	6.4	39819	3.6	3.8
	9.8	18985	3.8	3.6
	16.5	488105	13.7	24.4
	34.5	111867	33.2	22.8
MIRROR	6.4	39819	3.2	3.9
	9.8	18985	5.4	3.4
	16.5	488105	14.1	22.7
	34.5	111867	34.0	22.1

See related graphics below:



- Note: 1. all the operations are done with all objects selected;  
 2. it only counts the pure execution time of commands, no operating and interacting time included;  
 3. the "420.0" in red font means more than 7 minutes and the software finally

*got hanged up.*

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