

VTK Export for AutoCAD

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VTK Export for AutoCAD Help

Welcome to *VTK Export for AutoCAD* Help!

This help file provides all the information you need to understand and use *VTK Export for AutoCAD*. Click the links below or use the Contents tab on the left to browse help topics. You can also scroll the topics on the above right hand pane.

The *VTK Export for AutoCAD* help file is divided into the following sections:

- [Introduction](#) - Introduction to *VTK Export for AutoCAD*.
- [Command Reference](#) - Quick reference of all the commands added by *VTK Export for AutoCAD*.
- [Tutorial](#) - Tutorial to get you started in the shortest possible time.

If you need any additional information please [contact](#) SYCODE.

Note:

- Please refer to the section "Loading Instructions" in the [ReadMe](#) file to load *VTK Export for AutoCAD* plug-in file into the AutoCAD environment.
- Please read the [License Agreement](#) before using the software.

Introduction

VTK Export for AutoCAD is a Visualization Toolkit (.vtk) file export plug-in for AutoCAD®. This plug-in gives AutoCAD the ability to export geometric data from AutoCAD to ASCII and Binary VTK files.

VTK Export for AutoCAD extracts facet data from 3D Solids as well as 3D Face, Polygon Mesh and PolyFace Mesh objects in the active AutoCAD drawing and exports it to a VTK file. These objects can lie anywhere in space. 3D Solids are tessellated into triangular faces. The level of tessellation can be controlled by adjusting the resolution slider in the *VTK Export for AutoCAD* options dialog box. A lower resolution will yield coarse meshes (lesser faces), whereas a higher resolution will result in finer meshes (more faces).

VTK Export for AutoCAD is designed to work with the following versions of AutoCAD:

- AutoCAD 2011 (32 & 64 Bit)
- AutoCAD 2010 (32 & 64 Bit)
- AutoCAD 2009 (32 & 64 Bit)
- AutoCAD 2008 (32 & 64 Bit)
- AutoCAD 2007
- AutoCAD 2006
- AutoCAD 2005
- AutoCAD 2004
- AutoCAD 2002
- AutoCAD 2000i
- AutoCAD 2000

VTK Export for AutoCAD is very easy to use. Once installed, it must be loaded into the AutoCAD environment. There are simple instructions for this in the [ReadMe](#) file. Once loaded it adds new commands to AutoCAD's existing commands and a new submenu called "VTKExport" to the AutoCAD menu containing these newly added commands.

VTK Export for AutoCAD comes with detailed documentation as well as a [tutorial](#) to get you started in the shortest possible time.

If you need any additional information please [contact](#) SYCODE.

The VTK File Format

The Visualization ToolKit (VTK) is an open source, freely available software system for 3D computer graphics, image processing, and visualization used by thousands of researchers and developers around the world. VTK consists of a C++ class library, and several interpreted interface layers including Tcl/Tk, Java, and Python. The Toolkit stores geometric data in a file format known as VTK. Very few CAD applications have the ability to read and write VTK files.

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ReadMe

This is the *VTK Export for AutoCAD* ReadMe file.

Thank you for installing VTK Export for AutoCAD.

Please read this ReadMe document carefully and completely. It contains important information which is vital to the proper working of VTK Export for AutoCAD.

Loading Instructions:

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Since VTK Export for AutoCAD is a plug-in for AutoCAD, it has to be loaded into the AutoCAD environment before it can be used. Loading is a one time process. VTK Export for AutoCAD will automatically load itself into AutoCAD the next time you run AutoCAD.

The VTK Export for AutoCAD plug-in files are installed into the VTK Export for AutoCAD installation folder (typically "C:\Program Files\SYCODE\VTK Export for AutoCAD\"). The plug-in files have an extension of ".arx".

The list of plug-in files along with the version of AutoCAD is shown below. Please be sure to use the plug-in file that corresponds to your version of AutoCAD.

| | |
|-----------------------|---|
| VTKExport_VC60.arx | -> AutoCAD 2000, 2000i, 2002 |
| VTKExport_VC70.arx | -> AutoCAD 2004, 2005, 2006 |
| VTKExport_VC80.arx | -> AutoCAD 2007, 2008 (32 Bit), 2009 (32 Bit) |
| VTKExport_VC80x64.arx | -> AutoCAD 2008 (64 Bit), 2009 (64 Bit) |
| VTKExport_VC90.arx | -> AutoCAD 2010 (32 Bit) |
| VTKExport_VC90x64.arx | -> AutoCAD 2010 (64 Bit) |
| VTKExport_VC90.arx | -> AutoCAD 2011 (32 Bit) |
| VTKExport_VC90x64.arx | -> AutoCAD 2011 (64 Bit) |

To load VTK Export for AutoCAD into AutoCAD please follow the steps listed below:

- (1) Select "Load Application..." from "Tools" menu or enter the "_APpload" command.
- (2) Click the "Contents" button in "Startup Suite"
- (3) Click the "Add" button.
- (4) Browse for the plug-in file for your version of AutoCAD (see list above).
- (5) Click the "Add" button on the Add File to Startup Suite dialog box.
- (6) Click the "Close" button to close the Startup Suite dialog box.
- (7) Click the "Close" button to close the Load/Unload Applications dialog box.

Now VTK Export for AutoCAD is completely installed and ready for use.

Usage:

=====

VTK Export for AutoCAD adds new commands to AutoCAD. The commands added

are:

- 1) VTKExport - Exports a VTK file
- 2) VTKExportHelp - Displays the VTK Export for AutoCAD help file
- 3) VTKExportRegister - Registers your copy of VTK Export for AutoCAD
- 4) VTKExportAbout - Displays the VTK Export for AutoCAD about box

Sample Files:

=====

Sample files are copied into the Samples folder which is located in the VTK Export for AutoCAD installation folder (typically "C:\Program Files\SYCODE\VTK Export for AutoCAD\"). You can try VTK Export for AutoCAD using these sample files.

Support:

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For support, please E-Mail support@sycode.com

Contact

| | |
|-----------------|--|
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| Phone | +91 9822689298 |
| Fax | +91 832 2416615 |
| E-Mail | info@sycode.com |
| Web Site | http://www.sycode.com |

Command Reference

VTK Export for AutoCAD adds new commands to AutoCAD and a submenu called *VTKExport* which houses them. The new commands are:

| | |
|-----------------------------------|--|
| VTKExport | Exports a VTK file |
| VTKExportHelp | Displays the <i>VTK Export for AutoCAD</i> help file |
| VTKExportRegister | Registers your copy of <i>VTK Export for AutoCAD</i> |
| VTKExportAbout | Displays the <i>VTK Export for AutoCAD</i> about box |

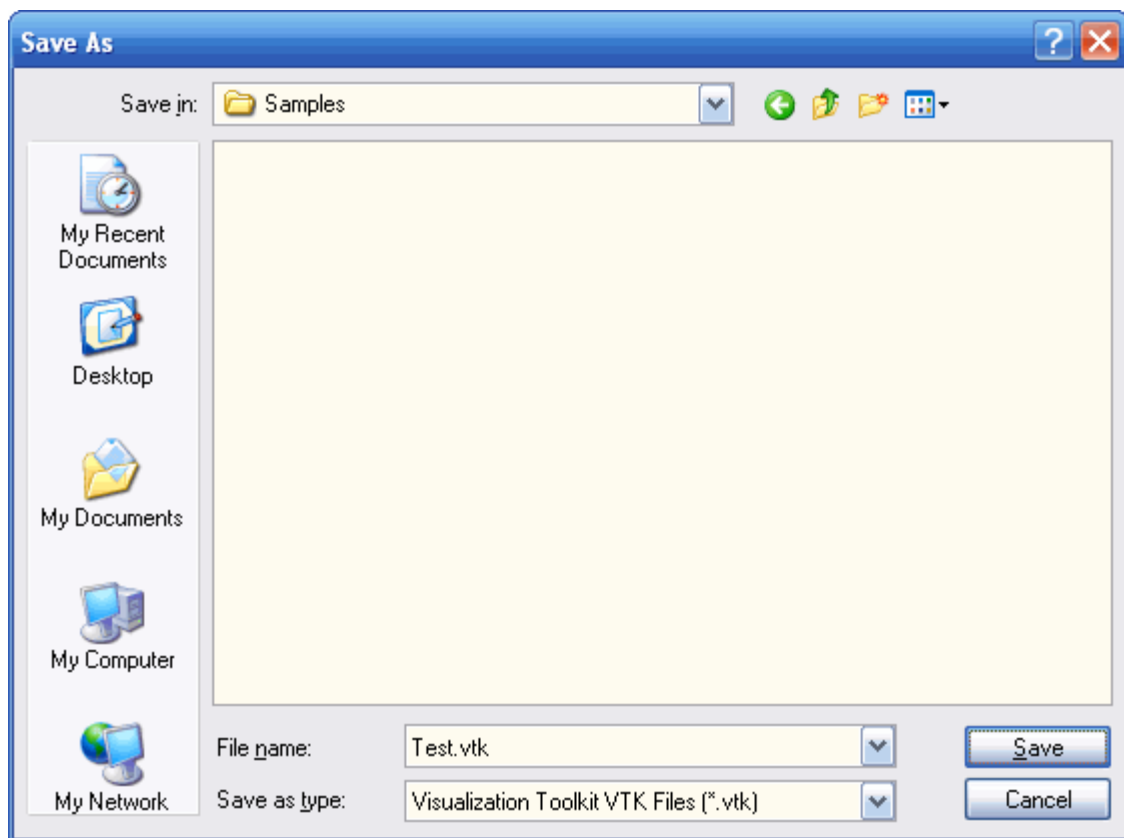
VTKExport

| | |
|--------------------|--------------------|
| Menu Button | VTKExport > Export |
| Command | VTKExport |

This command exports geometric data from AutoCAD to ASCII and Binary VTK files.

To export a VTK file

1. Select *Export* from the "VTKExport menu or type *VTKExport* at the AutoCAD command prompt and press *Enter*.
2. At the AutoCAD "Select objects" prompt, select the objects that you wish to export. Press *Enter* when done.
3. The AutoCAD "Save As" dialog box is displayed. Enter the output file name of a VTK file and click *Save*.



4. The "VTK Export for AutoCAD Options" dialog box is displayed. Set the options as desired and click *OK*.

VTKExportHelp

| | |
|--------------------|------------------|
| Menu Button | VTKExport > Help |
| Command | VTKExportHelp |

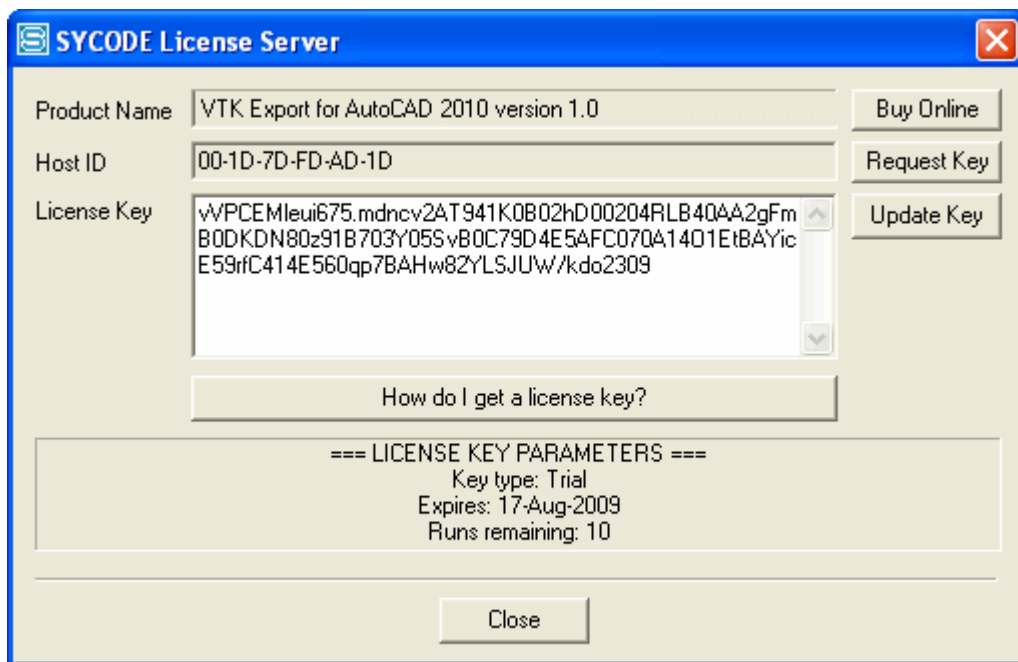
This command displays the help file. The [Welcome](#) page is a good place to start.

VTKExportRegister

| | |
|--------------------|----------------------|
| Menu Button | VTKExport > Register |
| Command | VTKExportRegister |

This command is used to register your copy of *VTK Export for AutoCAD*.

You need a license key to start using the software. A license key can be of two types: Trial or Permanent. A trial key is issued to you instantly and completely free of cost so that you may try the software before you purchase a license. A permanent key is issued after you have purchased a license.



How do I get a Trial Key?

Simply click the 'Request Key' button and select 'TRIAL KEY' as the type of key being requested. Fill the form and submit it. A trial key will be immediately sent to you by email.

How do I get a Permanent Key?

To get a permanent key you need to have already purchased a license. If you have not yet purchased a license you can do so by clicking the 'Buy Online' button. After you place your order click the 'Request Key' button and select 'PERMANENT KEY' as the type of key being requested. Fill the form and submit it. Your order will be verified and a permanent key will be sent to you by email within one business day.

IMPORTANT:

- (1) Please ensure that your computer is connected to the internet before you request for a key.
- (2) Please be sure to enter a valid email address as the key will be sent to you by email.

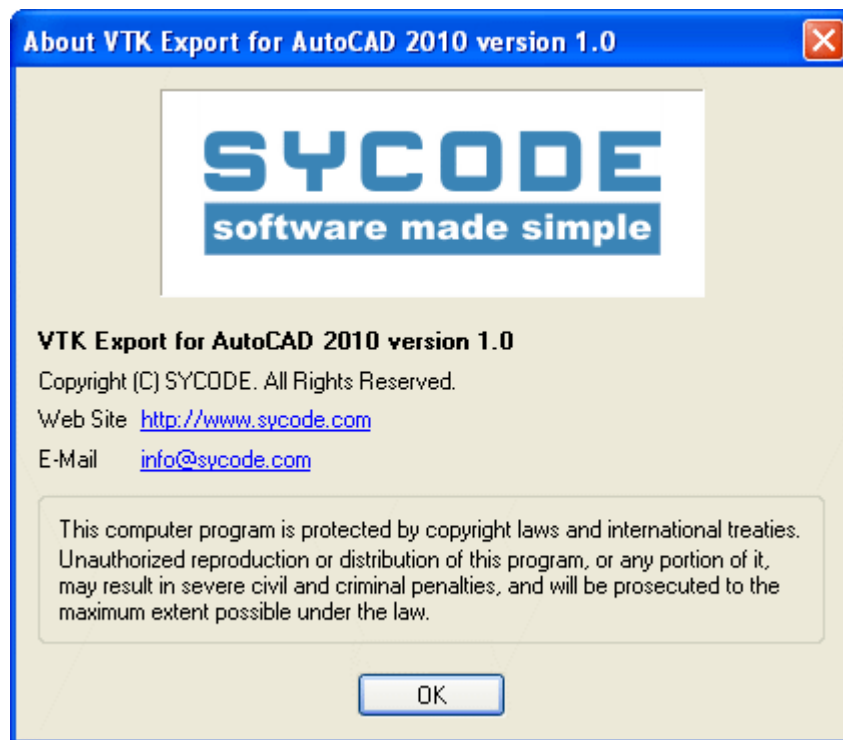
(3) To avoid disruption in your work-flow we urge you to place your order before the trial period ends.

If you need anything else please send an email to register@sycode.com

VTKExportAbout

| | |
|--------------------|-------------------|
| Menu Button | VTKExport > About |
| Command | VTKExportAbout |

This command is used to display the *VTK Export for AutoCAD* About box. The About box lists the software and its version.



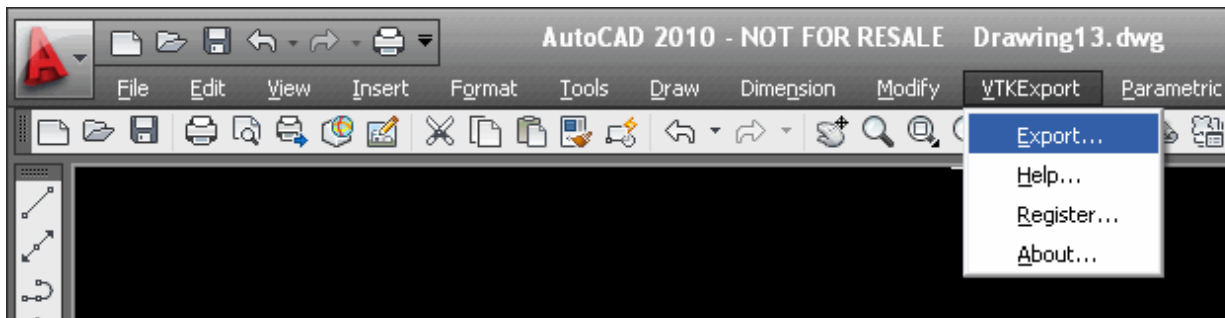
Tutorial

This tutorial provides the necessary information and hands-on experience to help you get started with *VTK Export for AutoCAD*.

Step 1: Start AutoCAD.

Step 2: Select "Open" from the AutoCAD file menu. The "Select File" dialog box is displayed. Browse for the file typically located at "C:\Program Files\SYCODE\VTK Export for AutoCAD\Samples\Sample 1.dwg" and click *Open*.

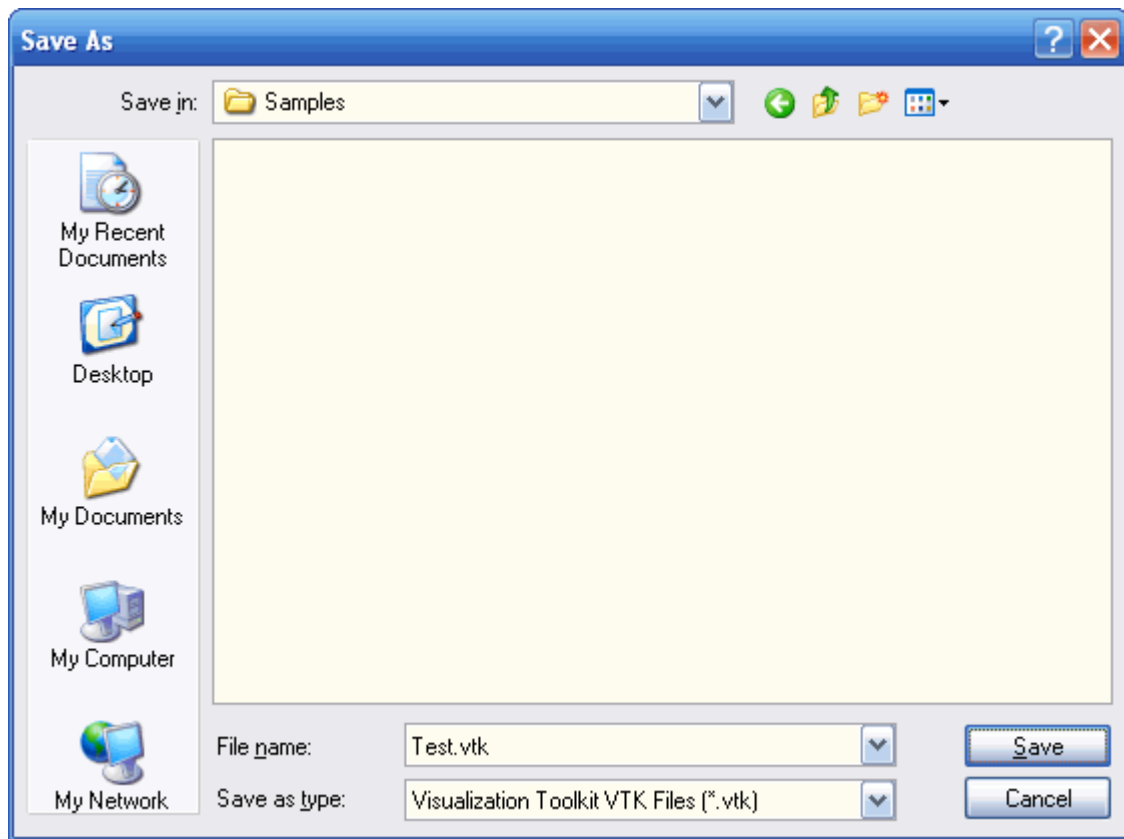
Step 3: Select *Export* from the "VTKExport" menu or type *VTKExport* at the AutoCAD command prompt and press *Enter*.



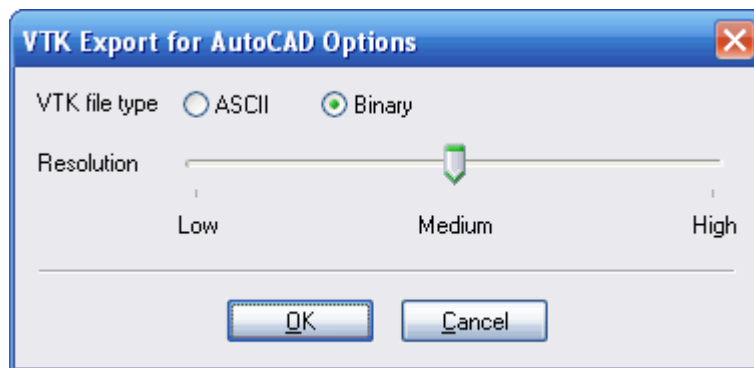
Step 4: At the AutoCAD "Select objects" prompt, select the objects you wish to export. Press *Enter* when done.

Step 5: The AutoCAD "Save As" dialog box is displayed. Enter the output file name of a VTK file and click *Save*.

VTK Export for AutoCAD



Step 6: The "VTK Export for AutoCAD Options" dialog box is displayed. Set the options as required and click *OK*.



The model will be exported to the VTK file you specified.