

# **VTK Import for Rhino Help**

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# VTK Import for Rhino Help

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Welcome to *VTK Import for Rhino* Help!

This help file provides all the information you need to understand and use *VTK Import for Rhino*. 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 Import for Rhino* help file is divided into the following sections:

- [Introduction](#) - Introduction to *VTK Import for Rhino*.
- [Command Reference](#) - Quick reference of all the commands added by *VTK Import for Rhino*.
- [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 Import for Rhino* plug-in file into the Rhino environment.
- Please read the [License Agreement](#) before using the software.

# Introduction

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*VTK Import for Rhino* is a Visualization Toolkit VTK file import plug-in for Rhino. This plug-in gives Rhino the ability to import geometric data from VTK files.

*VTK Import for Rhino* reads polygon mesh data stored in VTK files and imports it into Rhino. A polygon mesh in a VTK file is comprised of a set of triangular faces. *VTK Import for Rhino* reads the meshes in a VTK file and recreates corresponding meshes in the active Rhino model.

*VTK Import for Rhino* is designed to work with the following versions of Rhino:

- Rhino 5.0 (64 Bit)
- Rhino 4.0, 5.0 (32 Bit)
- Rhino 3.0

*VTK Import for Rhino* is designed to be extremely user friendly and easy to understand. Once installed, it automatically loads itself into the Rhino environment. If automatic loading fails there are manual loading instructions in the ReadMe file. Once loaded it adds new commands to Rhino's existing commands and a new submenu called "VTKImport" to the Rhino menu containing these newly added commands.

*VTK Import for Rhino* 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 Import for Rhino* ReadMe file.

VTK Import for Rhino is a plug-in for Rhinoceros. VTK Import for Rhino adds several new commands to Rhino. It also adds a new menu to the Rhino menu called "VTKImport" which contains these newly added commands.

### Automatic Loading:

=====

VTK Import for Rhino has to be loaded into the Rhino before it can be used. The installer does this automatically. The next time you run Rhino you will see the "VTKImport" menu added to the Rhino menu. Due to an installation problem, if the "VTKImport" menu does not appear then you will have to manually load the plug-in into Rhino.

### Manual Loading:

=====

The VTK Import for Rhino plug-in files are installed into the VTK Import for Rhino installation folder (typically "C:\Program Files\SYCODE\VTK Import for Rhino\"). The plug-in files have an extension of ".rhp". There is one plug-in file for each version of Rhino. The plug-in file name indicates the version of Rhino that it has been designed for.

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

VTKImport\_VC60.rhp -> Rhino 3.0  
VTKImport\_VC80.rhp -> Rhino 4.0, 5.0 (32 Bit)  
VTKImport\_VC80x64.rhp -> Rhino 5.0 (64 Bit)

To load VTK Import for Rhino into Rhino please follow the steps listed below:

- (1) Start Rhino
- (2) Type "PlugInManager" at the command prompt and press "Enter"
- (3) Click the "Install" button.
- (4) Browse for the plug-in file for your version of Rhino in the VTK Import for Rhino installation folder.
- (5) Click the "Open" button.
- (6) Click the "Close" button.

### Usage:

=====

VTK Import for Rhino adds a new menu to Rhino called "VTKImport". All the VTK Import for Rhino commands can be invoked from this new menu.

### Support:

=====

For support, please E-Mail [support@sycode.com](mailto:support@sycode.com)

## Contact

---

Mailing address	S1/116, Nova Cidade Complex, NH 17, Alto Porvorim, Goa - 403521 India
Phone	+91 9822689298
Fax	+91 832 2416615
E-Mail	<a href="mailto:info@sycode.com">info@sycode.com</a>
Web Site	<a href="http://www.sycode.com">http://www.sycode.com</a>

# Command Reference

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*VTK Import for Rhino* adds new commands to Rhino and a submenu called "VTKImport" which houses them. The new commands are:

<a href="#">VTKImport</a>	Imports a VTK file
<a href="#">VTKImportHelp</a>	Displays the <i>VTK Import for Rhino</i> help file
<a href="#">VTKImportRegister</a>	Register your copy of <i>VTK Import for Rhino</i>
<a href="#">VTKImportAbout</a>	Displays the <i>VTK Import for Rhino</i> about box

## VTKImport

---

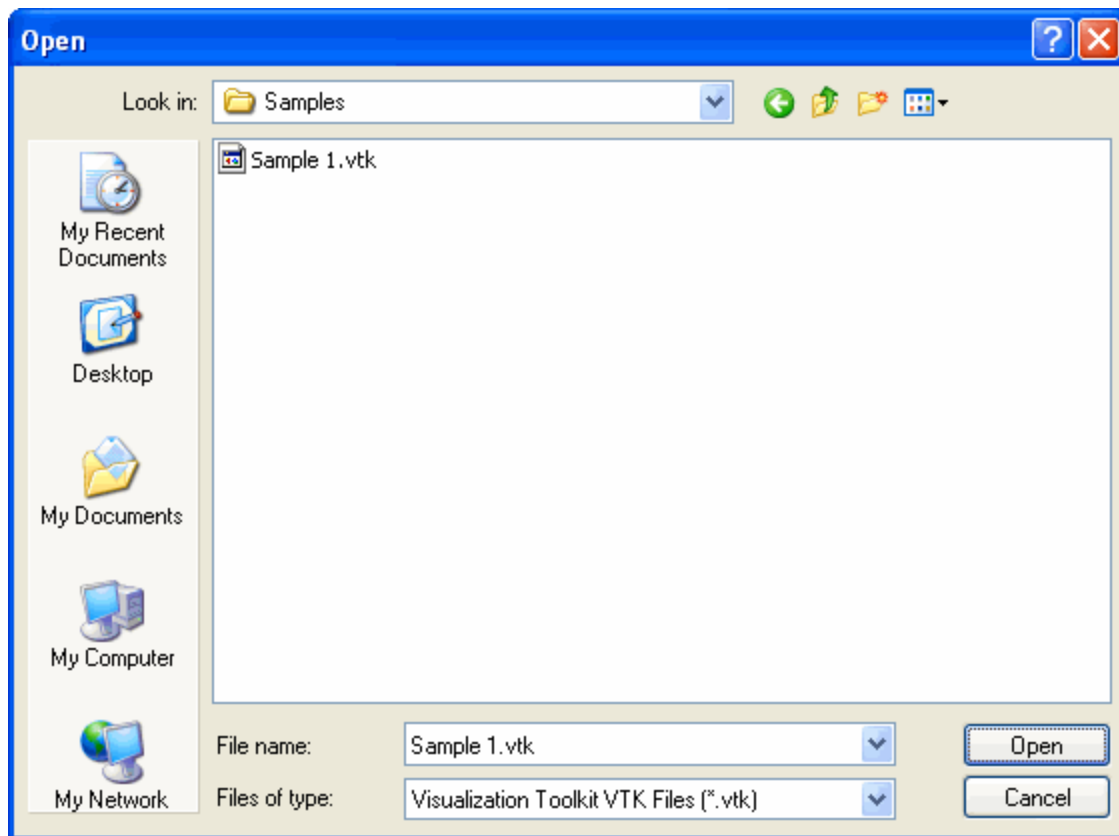
<b>Menu Button</b>	VTKImport > Import
<b>Command</b>	VTKImport

---

This command imports VTK file in Rhino

### To import a VTK file

1. Select *Import* from the "VTKImport" menu or type *VTKImport* at the Rhino command prompt and press *Enter*.
2. The Rhino file "Open" dialog box is displayed. Browse for the VTK file you wish to import and click *Open*.



## VTKImportHelp

---

<b>Menu Button</b>	VTKImport > Help
<b>Command</b>	VTKImportHelp

---

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

## VTKImportRegister

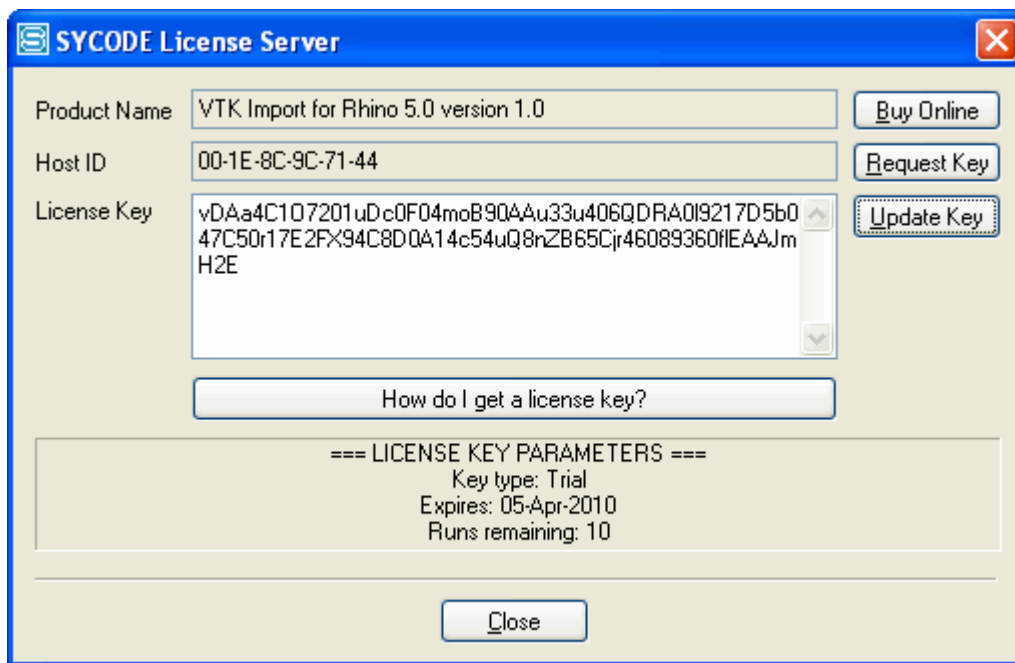
---

<b>Menu Button</b>	VTKImport > Register
<b>Command</b>	VTKImportRegister

---

This command is used to register your copy of *VTK Import for Rhino*.

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:

## VTK Import for Rhino Help

- (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](mailto:register@sycode.com)

## VTKImportAbout

---

<b>Menu Button</b>	VTKImport > About
<b>Command</b>	VTKImportAbout

---

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



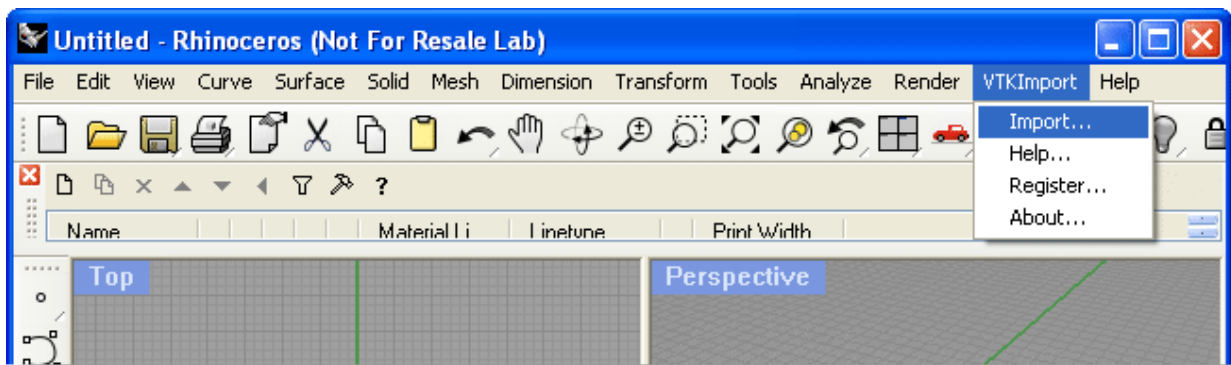
# Tutorial

---

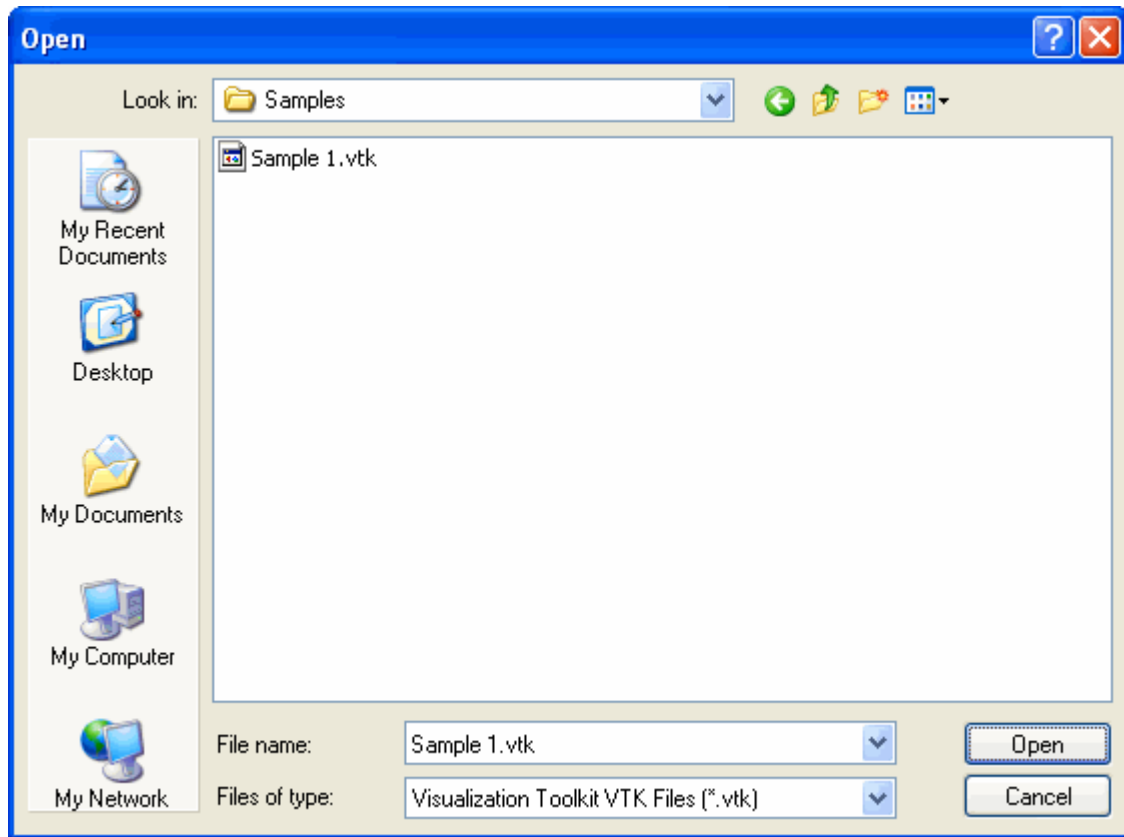
This tutorial provides the necessary information and hands-on experience to help you get started with *VTK Import for Rhino*.

**Step 1:** Start Rhino.

**Step 2:** Select *Import* from the "VTKImport" menu or type *VTKImport* at the Rhino command prompt and press *Enter*.



**Step 3:** The Rhino "Open" dialog box is displayed. Browse for the file C:\Program Files\SYCODE\VTK Import for Rhino\Samples\Sample 1.vtk and click *Open*.



The figure below shows the final result.

