READ THIS FIRST!

Setting Up

Make sure your system meets the minimum system requirements. See the product installation instructions for more information.

Step 1: Download and Install Phantom® Device Drivers

For more information, see the *Phantom Device Driver Installation Guide*.

Step 2: Connect Phantom Omni™ FireWire and Power

For more information, see the *Phantom Omni Device Guide*.

Use only the supplied FireWire cable. Do NOT use 6 pin to 4 pin FireWire cables with laptops; you must use a 6 pin PCMCIA card.

Step 3: Install the software from the Product CD

For more information, see the product installation instructions.

Step 4: Install the license file

Your system comes with a temporary license file. Request your permanent license from SensableSupport@geomagic.com. See the product installation instructions for more information.

Step 5: *Claytools™ for 3dsmax® only* - Install the HapticExtender™ and then Configure within 3dsmax

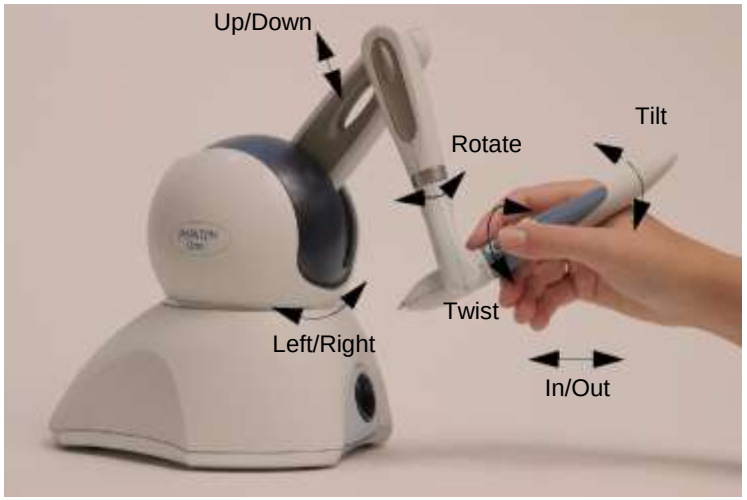
For more information, see the *Claytools for 3ds max Getting Started Guide*.

Information for 3D Modeling Applications

- **Use the Online Help** Once installed, for information about how to use the application see the *Help* menu.
- **Other Learning Tools** Various tools such as step-by-step lessons and workflow documents can be found in Start>Programs><*Sensable product*> or on the product CD.

Working in 3D Space

- Hold the Phantom Omni as you would a pen, gently resting your index finger or thumb on the blue stylus button as shown below.
- To help avoid arm fatigue, rest your arm or elbow on surface.
- To calibrate the device, place the stylus in the inkwell when starting the application.



NOTE: Clicking the Blue Button = Left Mouse click, clicking the White = Right Mouse click.

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TROUBLESHOOTING

Licensing

- All software products require permanent licenses.
- In order to run one of the 3D modeling applications you must have a valid license installed. See the product installation instructions for more information.
- OpenHaptics users must declare the environment variable OH_SDK_LICENSE_PATH and set the value to the location of the license file.

Graphics Display

Make sure that your system meets the products graphics card requirements. For a list of qualified graphics cards, visit http://www.sensable.com/support-graphics-cards.htm.

The modeling applications and applications developed using the OpenHaptics SDK will exhibit graphics card incompatibilities differently. Some symptoms of graphics card incompatibilities include:

- Blank or black floating toolbars
- Multiple tools/cursors
- Problems refreshing after rotating a model
- Application freeze

Lost Haptics / Unable to Communicate with Device

1. Check that all cables are connected securely.
2. Replace the stylus in the inkwell to recalibrate the device.
3. Check that Omni is set as the Phantom model in Start>Control Panel>Phantom Configuration>Hardware.
4. Run the Phantom Test diagnostic tool
5. from Start>All Programs>Sensable.
6. (OpenHaptics Only) Disable second processor and any hyper-threading before using dual Phantom configuration.

Performance

Does your system meet the product's minimum system requirements as listed in the product documentation or found through the product pages on http://www.sensable.com/support-overview.htm. If you are running one of the 3D modeling applications and you encounter performance problems, consider the following:

- Physical Memory Limitations - The most effective way to enhance the performance of your haptics system is to add memory to your computer.
- Large Model Sizes - Clay coarseness and deco layers (Concept only) can dramatically increase file size and affect system performance. Work from coarser to finer clay.
- Processor Speed - Does your processor meet the minimum system requirements? See your product documentation or visit http://www.sensable.com/support-overview.htm.

Where do I go for help?

1. Product documentation
2. Contact your local reseller
3. http://www.sensable.com
4. OpenHaptics developers forum: http://dsc.sensable.com/
5. Contact SensableSupport@geomagic.com

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