



SpaceMouse® Wireless

Important Information

Guidelines for Safe and Efficient Use

1. Do not attempt to disassemble this product unless it is for end-of-life disposal.
2. Do not expose your product to liquid, humidity, or moisture.
3. Do not operate your product when the temperature is outside the specified operation range of 0°C (32°F) to 40°C (104°F).

Battery Warning!

This product has a non-user-serviceable battery. Please do not attempt to change the battery yourself.

Instead, contact 3Dconnexion Technical Support for repair or replacement information.

Risk of explosion or personal injury if batteries are exposed to conducting materials, liquid, fire, or heat.

Dispose of spent or damaged device including batteries according to local laws.

Wireless Product

Hereby, 3Dconnexion declares that this radio-frequency product is in compliance with the essential requirements and other relevant provisions of CE (R&TTE Directive 1999/5/EC). The Declaration of Conformity (CE Doc) can be retrieved from www.3dconnexion.com/compliance.

Environment and Disposal

This product is compliant to RoHS Directive 2002/95/EC, WEEE Directive 2002/96/EC, Packaging and Packaging Waste Directive 94/62/EC, and Battery Directive 2006/66/EC for environment conformity.

Compliance Marks

This product is compliant to the following compliance marks:



Please visit www.3dconnexion.com/compliance for additional compliance information.

Warranty Information

This product comes with a 2-year limited hardware warranty.
Please refer to www.3dconnexion.com/warranty for further information.

Technical Support

Contact information can be found on the web at www.3dconnexion.com/support.

FCC Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

1 Purpose

This document lists the product specification of 3Dconnexion SpaceNavigator (project name is Juno). The purpose is to give a high level functional description of the device and to provide an overview of electrical as well as mechanical properties. Furthermore this document outlines test conditions to ensure sustaining quality, reliability and specification conformity.

This document covers SpaceNavigator with new sensor technology KILI, for SpaceNavigator with Everest technology refer to GPS-3DX-400007.

2 Product Description

2.1 General

3Dconnexion SpaceNavigator is a USB-based 3D mouse aimed at designers, modelers, animators and graphic artists.

SpaceNavigator is designed for use with either right or left hand in addition to the common mouse. With one hand on the Navigator and the other hand on the mouse, performance of 3D applications can be increased considerably. SpaceNavigator enables the user to pan, zoom and rotate 3D-models simultaneously, while at the same time editing can be done with the mouse. In addition to that, the product comes with 2 buttons which provide quick access to frequently used commands.

2.2 Description



Figure 1: SpaceNavigator

Figure 1 shows a picture of SpaceNavigator. The product consists primarily of a Controller Cap, which contains a 6 degrees-of-freedom optical sensor. Six blue LEDs under the Cap provide an appealing optical design. Furthermore, two buttons are integrated in the base and provide quick access to important commands. All two buttons are freely programmable.

The Controller Cap can be moved in 6 degrees of freedom: Horizontal shift in x-direction and z-direction, vertical shift in y-direction, rotational tilt around x-axis and z-axis, plus twist around

y-axis. In the same way the user moves the Cap of SpaceNavigator, the model moves on the screen. Thus, panning, zooming and rotation can be done simultaneously.

The usage of the Controller Cap can be described as follows:

Horizontal movement in x-direction:

- Move the Cap straight right parallel to the desk to pan the model towards the right.
- Move the Cap straight left parallel to the desk to pan the model towards the left.

Vertical movement in y-direction:

- Pull the Cap up away from desk to pan the model upwards.
- Push the Cap down to desk to pan the model downwards.

Horizontal movement in z-direction:

- Move the Cap straight away from you parallel to desk to zoom out on the model.
- Move the Cap straight towards you parallel to desk to zoom in on the model.

Turning around y-axis:

- Twist the Cap clockwise or counterclockwise to rotate the model correspondingly.

Rotational tilt around x- or z-axis:

- Tilt the Cap around x- or z-axis to rotate the model around the corresponding axis.

To prevent the 3D mouse from sliding away while handling it, the base of SpaceNavigator is made of stainless steel and equipped with a non-slid rubber foot.

When the PC enters sleep mode or the driver is shut down, SpaceNavigator turns off its illumination.

2.3 Compatibility

SpaceNavigator is compatible with the following platforms:

- Intel Pentium processor based Systems, 32 and 64bit
- AMD processor based Systems, 32 and 64bit
- Sun UltraSPARC based systems
- IBM RS6000 based systems
- HP PA RISC based systems

Additional requirements: 50 Megabytes free disk space for driver and plug-in installation, a CD-ROM device, a free USB 1.1 or 2.0 port. Serial-to-USB adapter is not supported. The driver supports only one device per system.

The following operating systems are supported:

- Windows Vista
- Windows 2000 SP4
- Windows XP SP2
- IBM AIX 5.2
- HP UX 11.0 and higher
- Sun Solaris 8 and higher
- SuSe Linux 9.3 and higher
- Red Hat Enterprise Linux 4 (Kernel 2.6.8 and higher)

SpaceNavigator supports the following Applications:

Over 100 applications are supported, including all the leading 3D CAD/CAM/CAE, Animation, Modeling, Digital Design and Office Productivity applications. Some examples are listed below:

- AutoCAD
- Autodesk Inventor
- Autodesk Architectural Desktop
- Autodesk 3ds Max
- CATIA
- Pro/ENGINEER
- Solid Edge
- SolidWorks
- Alias (Autodesk) Maya
- SOFTIMAGE|XSI
- UGS NX
- Newtek Lightwave (Future Date)
- Autodesk Revit (Future Date)
- Dassault 3DXML
- UGS Teamcenter
- PTC Product View
- Autodesk DWF (Future Release)
- eDrawings
- Actify Spinfire
- Adobe Acrobat
- Adobe Photoshop
- Google Earth
- Google SketchUp

3 Quickstart guide

