

Manual 3Dconnexion® SpaceMouse Pro Wireless



Driver Version: 3DxWare 10.8.0 and higher

FCC ID: 2AAHQ-SMPWBT IC: 11297A-SMPWBT

#### **FCC Warning:**

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.

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 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.
- Consult the dealer or an experienced radio/TV technician for help.

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

RF exposure statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

#### **IC Warning:**

This device complies with RSS247 of Industry Canada. Cet appareil se conforme à RSS247 de Canada d'Industrie. This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage prejudiciable, et (2) ce dispositif doit accepter tout brouillage recu, y compris un brouillage susceptible de provoquer un fonctionnement indesirable.

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

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. CAN ICES-003 (\*)/NMB-003(\*)

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## **QuickStart Guide**

## **Desktop Setup**







Place the SpaceMouse Pro Wireless on the opposite side of the keyboard to your standard mouse. One hand engages the 3D mouse to position your model: rotating, panning and zooming. The other hand uses the standard mouse to select, create and edit.

### **Hand Position**



Position your hand as shown. The contoured controller cap will guide your fingers into the perfect position for precise and effortless control.

## **Installation**



#### 1. Connect USB Hub

Use the USB cable to connect the Twin-Port USB Hub with your PC.

#### 2. Insert Universal Receiver

Insert the 3Dconnexion Universal Receiver into the Twin-Port USB Hub.

#### 3. Turn on the SpaceMouse Pro Wireless

Turn on the power switch located on the back of your SpaceMouse Pro Wireless.

#### 4. Download and install the latest 3Dconnexion software

Make sure you have the latest 3Dconnexion software (3DxWare) installed. The latest version can be downloaded at 3dconnexion.com/drivers.

#### 5. Familiarize with your SpaceMouse Pro Wireless

Open 3Dconnexion Home and launch the Trainer to get help taking the first steps with your SpaceMouse Pro Wireless.

## **Feature Guide**

## 3Dconnexion SpaceMouse Pro Wireless



## **Controller Cap**

The Controller Cap is the heart of your SpaceMouse Pro Wireless. Its Six-Degrees-of-Freedom (6DoF) sensor allows you to push, pull, rotate, or tilt to pan, zoom and rotate your drawings and 3D models. The SpaceMouse has different motion profiles depending on the application you are using. In **Object Mode** applications the 3D navigation behaves as if you were reaching into the screen and holding the object in your own hand. In **Camera Mode** applications, the navigation behaves like a camera you are viewing through. For many applications, you can adjust this behaviour in the **Advanced Settings** of your SpaceMouse Pro Wireless.













#### Menu Button

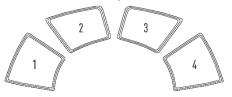
The Menu Button allows for fast and easy customization of your 3Dconnexion devices. Pressing it will take you directly to the **3Dconnexion Settings**. Select the device you want to configure in the flyout window and customize it.

#### Fit Button

With the Fit Button, you will never lose sight of your drawing or 3D model. Press it to bring your drawing back to the center of your screen.

#### 3Dconnexion Buttons

The SpaceMouse Pro Wireless features four additional programmable function buttons, located above the controller cap. It instantly recognizes the applications you are using, as well as their environments, and automatically assigns the most used commands to the buttons. You can personalize commands assigned to the function buttons using the **3Dconnexion Settings**.



## **On-Screen Display**

In addition to the LCD, the SpaceMouse Pro Wireless also offers an On-Screen Display (OSD). To display the OSD of your SpaceMouse Pro Wireless, press and hold any of the 3Dconnexion Buttons. It will be displayed as long as you keep the button pressed. This function can be disabled in the **3Dconnexion Settings**.



## **Keyboard Modifiers**

The SpaceMouse Pro Wireless comes with four Keyboard Modifiers that work like the corresponding keys on your keyboard. You can personalize the commands assigned to the Keyboard Modifiers using the **3Dconnexion Settings**.

#### **QuickView Buttons**

The SpaceMouse Pro Wireless features four QuickView Buttons helping you to quickly bring your drawing or 3D model into the desired view. You have the option to change the assignment of the buttons in the **3Dconnexion Settings**.

## **Rotation Toggle Button**

In the center between the QuickView Buttons is the Rotation Toggle Button. Pressing it once locks the rotation around all axes.

### Connect your SpaceMouse Pro Wireless







The SpaceMouse Pro Wireless can be connected via the included 3Dconnexion Universal Receiver, the 3Dconnexion Keyboard Pro, or USB cable.

Note: Since your SpaceMouse Pro Wireless is factory paired with the Universal Receiver, you must first remove the Universal Receiver from your computer, before you can pair it with the Keyboard Pro.

#### Pairing via the 3Dconnexion Keyboard Pro:

Access the Windows start menu and launch the **3Dconnexion Pairing** tool. Now press **Add device** and follow the instructions of the **3Dconnexion Pairing** tool to connect your SpaceMouse Pro Wireless with your Keyboard Pro.

#### Charge your SpaceMouse Pro Wireless

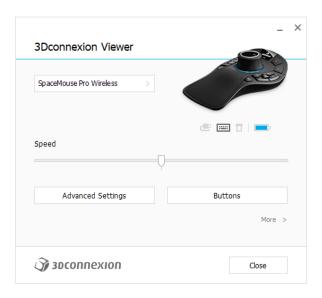
When the status LED of your SpaceMouse Pro Wireless turns red, it has less than 10% battery power left and should be charged. Connect your SpaceMouse to a charging port of your computer by using the included USB cable. As long as the SpaceMouse Pro Wireless is charging, the status LED will pulse green, and it will turn solid green when it is fully charged.

# **3Dconnexion Settings**



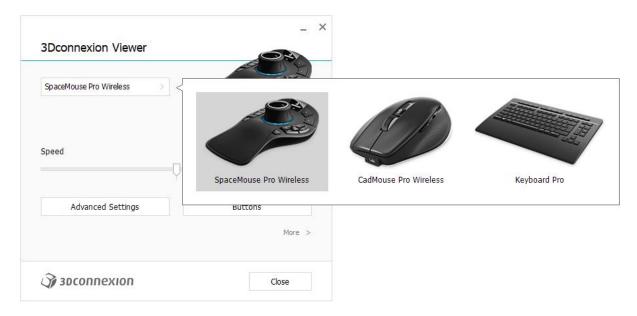
You can access the **3Dconnexion Settings** panel via the Menu Button on your SpaceMouse Pro Wireless, **3Dconnexion Home** (on your desktop), the icon in your notification area (systray), or the Windows start menu.

The name of the active application is displayed at the top of the panel. Any setting change is relevant to this application only. The current connection mode, as well as the battery level are displayed by the icons below the product image.



## **Speed**

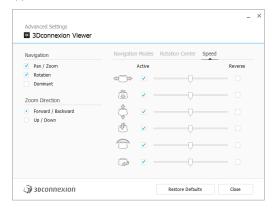
This slider sets the overall speed for your device. In other words, it changes the amount of force or torque that needs to be applied to the SpaceMouse cap to move an object, scene, or image.



If multiple 3D connexion devices are connected, you can select the desired product to configure by clicking on the flyout button at the top left of the panel.

#### **Advanced Settings**

Settings you can configure in the **Advanced Settings** panel are application-specific. So, it's easy to configure your SpaceMouse to work just how you prefer in each application.



### **Navigation**

Pan / Zoom: Enables/disables panning of your part, assembly or drawing. Enabled by default.

Rotation: Enables/disables rotation of your part, assembly or drawing. Enabled by default.

<u>Dominant:</u> Turns on and off dominant filter axis, which when enabled restricts the pan, zoom or, rotations to a single axis.

#### **Zoom Direction**

Forward / Backward: Zoom by pushing the cap toward or away from you parallel to the desk.

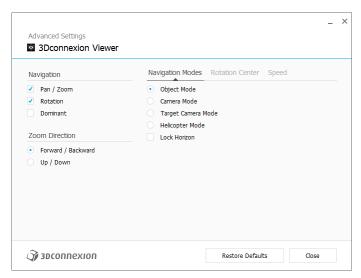
<u>Up / Down:</u> Zoom by pulling the cap upwards or pushing the cap downwards parallel to the screen.

#### Speed

Use the slider to set the speed for each of the 6-Dimensions-of-Freedom individually. To reverse the direction of a movement, check the **Reverse** box for that movement.

## **Application Specific Advanced Settings**

Some applications feature additional SpaceMouse settings. For those applications you have additional options available in the **Advanced Settings Panel:** 



#### **Navigation Modes**

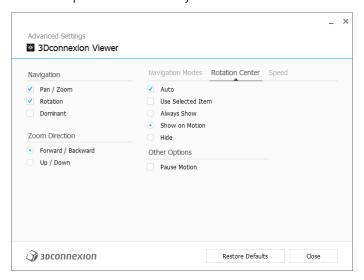
<u>Object Mode</u> enables **Object Mode** navigation - this mode is like reaching into the screen and holding the model in your hand. Push the SpaceMouse cap left, and the model moves left. Push right and the model moves right.

<u>Camera Mode</u> enables using the Controller Cap as if it is a camera. Push into the scene and the camera moves forward into the scene. Push left and the camera moves to the left (the scene moves to the right). Lift up and the camera moves up (the scene moves down). You are entering the scene as if walking around in it.

<u>Target Camera Mode</u> enables **Target Camera Mode** navigation. Manipulate the SpaceMouse cap as if it is a target camera. Push into the scene and the camera moves forward into the scene. Push left and the camera moves to the left (the scene moves to the right). Lift up and the camera moves up (the scene moves down). When rotating the cap in any direction you will orbit around the target point (see **Rotation Center** below).

<u>Helicopter Mode</u> enables a **Camera Mode** navigation but pushing the cap forward while looking down will not change the altitude of the camera.

Lock Ho<u>rizon</u> forces the horizon to be kept leveled as it currently is.



#### **Rotation Center**

<u>Auto</u> sets the center of rotation dynamically. When the complete model is in view, the center of volume of the whole model is used as the rotation point. When you move closer, the center of rotation will be set on an object close to your center of the view.

<u>Use selected Item</u> forces the rotation center to only take the currently selected objects into account.

Always Show always visualizes the Rotation Center.

Show on Motion will visualize the Rotation Center only during movement.

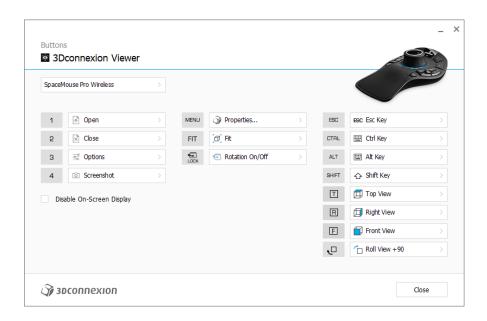
Hide will disable the Rotation Center visualization.

## Other Options

The applications below feature special options. More information can be found in the <u>3Dconnexion FAQ</u>: Autodesk 3ds Max, Autodesk Maya, Solid Edge, SOLIDWORKS

#### **Buttons**

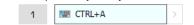
The **Buttons** panel within **3Dconnexion Settings** allows you to assign commands, macros or, radial menus. The name of the active application is displayed at the top of the panel. Any setting change is relevant to this application only. Press and hold a 3Dconnexion Button to get the button assignment for the current app displayed on the OSD. To disable this function, check Disable On-Screen Display.



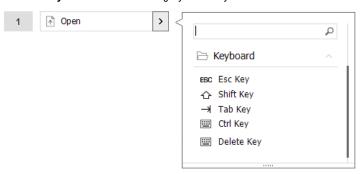
A note about Environment sensitivity: Some applications feature environment sensitive key mapping. In those applications, you can have different key assignments depending on the currently active environment.

## Assigning Quick Macros to buttons

Click on the text in the input field and press the required key or key combination to quickly assign a keystroke or macro.



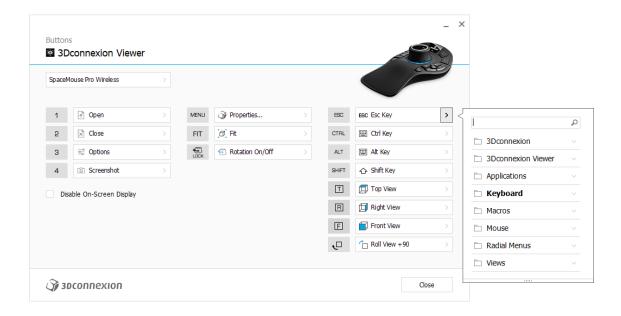
When a macro is created, it always sends a press and release command. If you want to assign a press and hold command instead (for example Ctrl or Shift), you should use the **Keyboard** command category in the flyout window.



### Assigning Commands using the flyout window

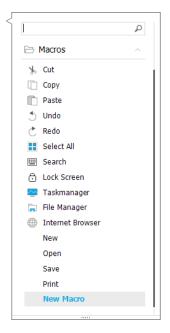
Clicking on the > arrow on the right-hand side of the button field opens a flyout window for that SpaceMouse button:

The flyout window allows you to browse or search for commands in different categories. When you select a command by clicking on it, it is automatically assigned to the corresponding SpaceMouse button. The category of the command that it is currently assigned to is highlighted in bold.



## **Creating Macros**

First, click on the > arrow on the right-hand side of the key field. Then, expand the Macros category and click on New Macro. This opens the macro editor where you can assign a name for your macro and a sequence of keystrokes in the corresponding fields. Clicking on Save will automatically assign the new macro to the button from where you opened the panel.

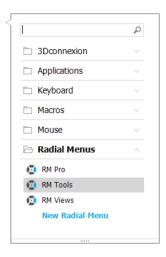


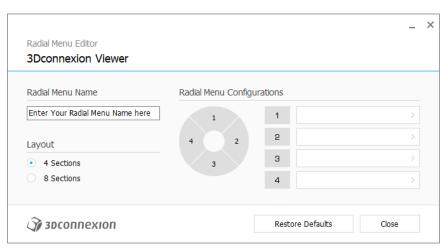


#### **Creating Radial Menus**

First, click on the > arrow on the right-hand side of the key field. Then, expand the Radial Menu category and click on New Radial Menu.

This brings up the radial menu editor where you can assign a name and commands to the different sections. Your new radial menu will be automatically assigned to the key from where you opened the panel.





# **3Dconnexion Home**



Once you have successfully installed the latest 3Dconnexion driver, 3Dconnexion Home gives you access to various 3Dconnexion apps:

#### Trainer:



Learn how to quickly use the 3Dconnexion SpaceMouse.

#### Manuals:



Here you can find the manuals for all 3Dconnexion products.



#### **Settings:**

Open the settings panel to customize your 3Dconnexion devices.

#### Viewer:

Use the 3Dconnexion Viewer to review 3D models.



## Collage:

3Dconnexion Collage lets you create high resolution picture collages with your SpaceMouse.



#### Demo:

Test and practice your skills by assembling the landing gear of an aircraft.

#### Registration:

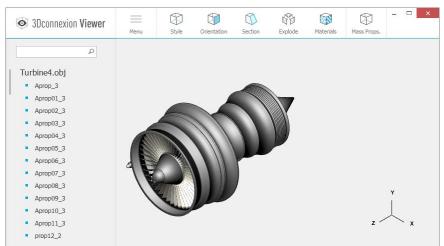
Register your product after the installation to benefit from 3D connexion services.



#### Videos:

Find instructive videos for your 3Dconnexion devices.





# **Technical Specifications**

## **Dimensions & Weight**

Length: 204 mm / 8" Width: 142 mm / 5.6" Height: 58 mm / 2.3"

Weight: 563 g / 1.24 lb / 19.86 oz

## **Supported Operating Systems**

Microsoft Windows, macOS More information

## **Package Contents**

- 3Dconnexion SpaceMouse Pro Wireless
- Carry case
- 3Dconnexion Universal receiver
- Twin-port USB hub
- 3Dconnexion Cable USB-A / USB-Micro (1.5m)
- 3Dconnexion Cable USB-A / USB-Micro (0.5m)

## **Certifications and Registrations**

CE, FCC (Part 15, Class B), BSMI, RCM, KCC, TELEC, NCC, WEEE, RoHS More information

## Warranty

3-years limited hardware warranty

## **Support**

3dconnexion.com/support