3Dconnexion 3DX-700040

3Dconnexion SpaceMouse Pro 3DX-700040 3D Mouse User Manual

Model: 3DX-700040 | Brand: 3Dconnexion

INTRODUCTION

The 3Dconnexion SpaceMouse Pro is an advanced 3D mouse designed to enhance navigation and interaction with digital models and camera positions in 3D space. Featuring a patented 3Dconnexion 6-degrees-of-freedom (6Dof) sensor, it allows for precise and intuitive control. This device is equipped with a full-size, soft-coated hand rest and 15 large, fully programmable function keys, providing quick access to application commands, standard views, and keyboard modifiers. An on-screen display offers visual support for key assignments. This manual provides essential information for setting up, operating, and maintaining your SpaceMouse Pro.

PRODUCT FEATURES

- **3Dconnexion 6-Degrees-of-Freedom (6Dof) Sensor:** Enables intuitive pan, zoom, and rotate functionality for 3D models and environments.

- **Full-Size, Soft-Coated Hand Rest:** Designed for ergonomic comfort during extended use.

- **15 Programmable Keys:** Includes 4 Application Command Buttons, 4 QuickView Keys, Rotation Toggle Key, Menu Key, Fit Key, and 4 keyboard modifiers (Ctrl, Alt, Shift, Esc).

- **On-Screen Display:** Provides visual feedback for assigned commands to programmable keys.

- **Rotation Toggle Key:** Allows for precise control over navigation by enabling or disabling rotation.

- **Virtual Numpad:** Facilitates quick numeric input without needing to reach for the keyboard.

- **Corded USB Connectivity:** Ensures reliable and consistent performance.

- **Multi-OS Compatibility:** Supports Microsoft Windows, macOS, and Linux operating systems.

SETUP

1. **Connect the Device:** Plug the USB cable of your SpaceMouse Pro into an available USB port on your computer.

2. **Install Drivers and Software:** Visit the official 3Dconnexion website to download and install the latest drivers and 3Dconnexion software for your operating system. This software is crucial for customizing the device and ensuring full functionality with your 3D applications.

3. **Restart Your Computer:** After installation, it is recommended to restart your computer to ensure all drivers and software components are properly loaded.

4. **Configure Settings:** Open the 3Dconnexion control panel or settings application. Here, you can customize the sensitivity of the controller cap, assign functions to the programmable keys, and set up application-specific profiles.

Figure 1: Top-down view of the 3Dconnexion SpaceMouse Pro, showing the controller cap and programmable buttons.

OPERATING INSTRUCTIONS

Using the Controller Cap (6Dof Sensor)

The core of the SpaceMouse Pro is its controller cap, which provides 6-degrees-of-freedom navigation. Gently push, pull, twist, or tilt the cap to simultaneously pan, zoom, and rotate your 3D models or camera views. The sensitivity can be adjusted in the 3Dconnexion software to match your preference and application requirements.

- **Pan:** Push the cap left, right, forward, or backward.
- **Zoom:** Pull the cap up (towards you) to zoom out, or push it down (away from you) to zoom in.
- **Rotate:** Twist the cap clockwise or counter-clockwise to rotate around the Z-axis. Tilt the cap forward, backward, or sideways to rotate around the X and Y axes.

Programmable Keys

The 15 programmable keys allow you to execute frequently used commands directly from the device, reducing reliance on the keyboard and standard mouse. These keys can be configured for specific applications, and their functions are displayed on the on-screen display for easy reference.

- **Application Command Buttons (1-4):** Assign common commands specific to your active 3D application.
- **QuickView Keys:** Instantly switch to standard views (e.g., top, front, side, isometric).
- **Rotation Toggle Key:** Lock or unlock rotation for precise panning and zooming without accidental rotation.
- **Keyboard Modifiers (Ctrl, Alt, Shift, Esc):** Access common keyboard shortcuts directly.
- **Menu Key:** Opens the 3Dconnexion radial menu for additional commands.
- **Fit Key:** Automatically adjusts the view to fit the entire model within the display.

Figure 2: Side view of the SpaceMouse Pro, highlighting the ergonomic hand rest and programmable buttons.

Figure 3: A hand demonstrating the use of the controller cap for 3D navigation.

MAINTENANCE

- **Cleaning:** Use a soft, dry, lint-free cloth to clean the surface of the SpaceMouse Pro. For stubborn dirt, slightly dampen the cloth with water or a mild cleaning solution. Avoid harsh chemicals or abrasive materials.
- **Controller Cap Care:** The controller cap is sensitive. Avoid applying excessive force or twisting it beyond its natural range of motion. Do not attempt to remove the cap unless specifically instructed by 3Dconnexion support.
- **Cable Management:** Ensure the USB cable is not kinked, pinched, or subjected to undue stress, which can damage the internal wiring.
- **Storage:** When not in use, store the device in a clean, dry environment away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

- **Device Not Responding:**

  - Ensure the USB cable is securely connected to both the device and the computer.
  - Try plugging the device into a different USB port.
  - Restart your computer.
  - Verify that the 3Dconnexion drivers are installed and up to date.

- **Controller Cap Not Working Correctly (e.g., erratic movement, no movement):**

  - Check the sensitivity settings in the 3Dconnexion software.
  - Ensure no debris is obstructing the movement of the cap.

- Recalibrate the device through the 3Dconnexion control panel if available.

- **Programmable Keys Not Functioning:**

    - Confirm that the 3Dconnexion software is running in the background.
    - Check the key assignments in the 3Dconnexion control panel for the specific application you are using.
    - Ensure the on-screen display is active and showing the correct profile.

- **Software Compatibility Issues:**

    - Ensure your 3D application is officially supported by 3Dconnexion.
    - Update your 3D application to the latest version.

SPECIFICATIONS

Feature	Detail
Model Number	3DX-700040
Brand	3Dconnexion
Connectivity Technology	USB (Corded)
Sensor Type	6-Degrees-of-Freedom (6Dof)
Programmable Keys	15 (including 4 Application Command, 4 QuickView, Rotation Toggle, Menu, Fit, Ctrl, Alt, Shift, Esc)
Operating Systems Supported	Microsoft Windows, macOS, Linux
Dimensions (LxWxH)	8.03 x 5.59 x 2.28 inches (204 x 142 x 58 mm)
Item Weight	1.47 pounds
Color	Black

Figure 4: The SpaceMouse Pro positioned on a desk alongside a standard keyboard, illustrating its size and placement in a typical workstation.

WARRANTY AND SUPPORT

For detailed warranty information, technical support, and additional resources, please visit the official 3Dconnexion website. The website provides access to product registration, FAQs, driver downloads, and contact information for customer service.

Online Resources: www.3dconnexion.com