

# SpaceXform

## 3D Space Mouse Plug-in Module for AVS/Express

### True 3D Control



SpaceXform™ is an AVS/Express add-on module that integrates SpacePilot, SpaceMouse, SpaceBall, CadMan and SpaceTraveler classes of 3D motion controller from 3DConnexion. These devices allow full 3D control over transformations in the AVS/Express graphics viewers from Advanced Visual Systems Inc. The module is an event handling and transformation mapping facility that greatly simplifies connection to an existing viewer, while using the 3DxWare driver to interface with the latest 3D motion controllers.

Are you frustrated by using two-dimensional mouse operations to control a 3D viewer window? Using a conventional mouse, each time you change from rotation to zoom mode requires extra mouse clicks and awkward mouse movements. These extra movements interfere with your concentration on important data.

SpaceXform is a true 3D controller module that allows faster, smoother interaction with an AVS data set in a natural and realistic way using the latest 3D mouse devices. You can turn your visualisation with one hand while making changes to parameters with the other. The ergonomic design reduces wrist stress and provides button short-cuts to functions that are used repeatedly. SpaceXform allows you to "fly" inside the data, enabling new discoveries and insights.

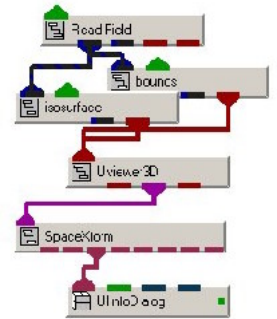


 **3Dconnexion** | A Logitech Company

### 6-Degrees of Freedom

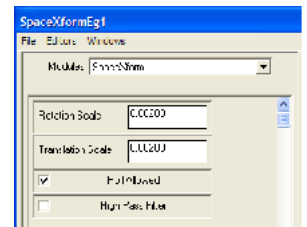
SpaceXform enables a number of application benefits:

- Full 6 degree of freedom interaction using push, pull and twisting actions
- 3D zoom / rotate / pan / forward / backward without switching modes
- Two-hand simultaneous operations (3D mouse + normal mouse) or both with one hand, full user choice
- Optical measuring system – highly reliable
- 8 illuminated programmable buttons
- Durable stainless steel construction
- USB connection (plug and play installation)
- Windows driver as AVS/Express module complete with examples
- AVS/Express event-driven design (non-polling, does not block user interface!)
- Simple add-on module, hooks up to any UViewer3D macro in the network editor



### Compatibility


The module and 3DConnexion motion controllers are supported through USB interfaces on Windows platforms for SpacePilot™, SpaceBall®, SpaceMouse®, CadMan®, and the SpaceTraveler™.



Support is currently for Visual Studio 6 (VC++) with AVS/Express 6.3, 7.0, (Visualisation & Developer Editions) and Windows Multi-Pipe Edition (VR). Please contact us for updated information for Unix, Linux and .NET.

### License

Both full source code license suitable for OEM integration or as a linkable library is available. SpaceXform is also available bundled with a 3D mouse device. SpaceXform is the intellectual property and trademark of Visual Technology Services Ltd. Full software license terms & conditions available on request. All other trademarks are the property of their respective owners. GeoExpress application image is courtesy of IGM Ltd.

 **AVS** Advanced Visual Systems



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