



Technology Brief

HP Workstations

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Peter Torvi, Technical Consultant (peter.torvi@hp.com)

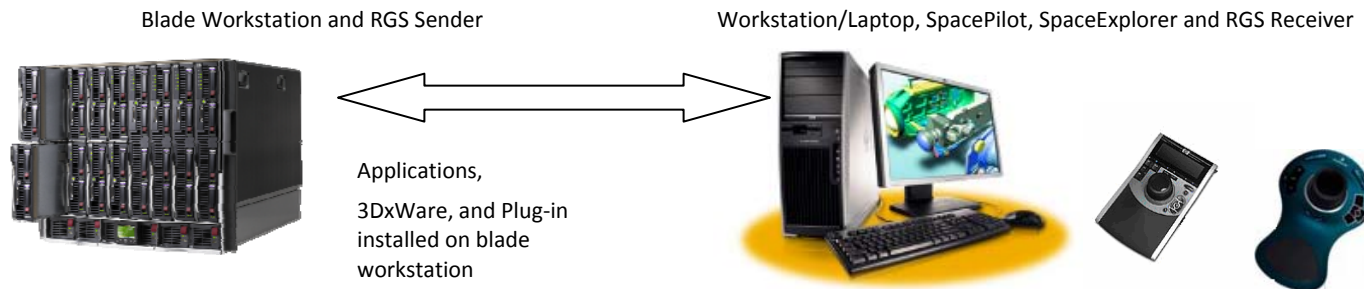


User Configurable Options with SpacePilot, SpaceExplorer and RGS 5

Introduction: This document describes options available to the user when installing the HP 3Dconnexion SpacePilot and the SpaceExplorer Motion Controllers in a Remote Graphics Software environment. This document specifically refers to RGS version 5 and Windows XP.

Background: The SpacePilot and SpaceExplorer enable the CAD user with greater precision, increased functionality, and improved ergonomics. In a traditional environment the SpacePilot/Explorer is directly connected to the USB port of the workstation that is running the CAD applications. There are two key software components provided with the SpacePilot/Explorer. These components are: the SpacePilot 3DxWare driver and the application specific plug-in.

SpacePilot/Explorer in a RGS environment: There are additional considerations when a SpacePilot or SpaceExplorer is configured in a RGS environment. In a RGS environment the User and the 3D Motion Controller are remote from the workstation or blade workstation that is running the CAD application. In the typical RGS environment the CAD application, the 3DxWare driver, and application plug-in are installed on the blade/workstation along with the RGS Sender. The 3D Motion Controller is connected to the USB port of the remote workstation running the RGS Receiver.



Installation options for RGS5 and USB devices: While installing the RGS Sender software the user is presented with the option to enable remote USB. The remote USB functionality allows the RGS Sender to accept USB devices connected-to and exported-by the RGS Receiver. Select the 'enable remote USB' option during the RGS Sender installation. While installing the RGS receiver the user is presented with the option to enable remote USB, local USB, or a combination of remote/local USB. The table below describes the major attributes of each of the three choices presented during RGS Receiver installation.

RGS Receiver USB option:	USB Motion Controller Exported to Sender:	3dXWare and Plug-in:
Remote USB enabled	Yes	RGS Sender
Local USB enabled	No	RGS Receiver
Remote & Local USB enabled	Yes, when not in use locally	RGS Sender & Receiver

Activation: The 3D Motion Controller is recognized by the Windows OS running on the RGS Sender as a Human Interface Device SpacePilot/Explorer the first time it is exported by the RGS Receiver. The SpacePilot driver process "3dxsrv.exe" must be active on the RGS Sender. The driver can be run from the Start -> 3Dconnexion menu if not already running.

Final Checklist:

- CAD applications, SpacePilot/Explorer driver, and plug-in installed on RGS Sender blade/workstation.
- Remote USB enabled on RGS Sender and Receiver.
- SpacePilot/Explorer connected to USB port on RGS Receiver.
- Windows OS on RGS Sender recognizes the new USB device at the initial connection.
- SpacePilot/Explorer driver process '3dxsrv' running on RGS Sender.