

## Onyx4™ Support for Auto-Stereo



### Highlights

- Advanced 3D Visualization without Glasses
- Visualize the true depth of your data
- Only Available with the SGI Onyx4
- Amazing tool for scientific visualization, modeling, satellite imaging, manufacturing, and many more application areas

### Silicon Graphics® Onyx4™ UltimateVision™ and 3D Displays

Silicon Graphics Onyx4 UltimateVision support for Auto-Stereo provides users with numerous options and the unprecedented ability to visualize their data and applications in an amazing, glasses-free 3D environment.

Features within the Onyx4 visualization system, such as scalable graphics, are key enablers when doing Auto-Stereo. Compared to traditional 2D imagery, the creation of Auto-Stereo imagery requires faster, better, and scalable GPU processing power. For example, Auto-Stereo on multi-view displays may require as much as 8 times the GPU power as regular 2D imagery. The scalable architecture of Onyx4 seamlessly delivers the GPU power needs of Auto-Stereo.

### Silicon Graphics and DDD team together to provide industry-leading 3D solutions with Auto-Stereo

According to various reports, Auto-Stereo is the next wave of visualization technologies that will revolutionize the market. Auto-Stereo solutions provide the extraordinary ability to see in 3D without the use of headgear.

### 3D Displays are amazing tools

Unlike flat 2D, high-impact 3D imagery attracts attention in a way that viewers find natural and compelling. There are numerous advantages of Auto-Stereo over traditional Stereo, the most significant of which is the ability to see a stereo image without the cumbersome headgear or eyeglasses, thus causing no strain or discomfort to the viewer and removing one of the principal barriers to wider adoption with end users.

These solutions break down one of the last remaining visual barriers in the presentation of complex information. Auto-Stereo allows the end user to view images in the most natural way that we are accustomed to, with depth to the image within and off the surface of the display.

DDD's TriDef software is the enabling software for the Onyx4. The TriDef software powers more 3D displays than any other software on the market. DDD software can also convert any existing 2D still image, animation, live action movie, OpenGL® application into true stereoscopic 3D. The TriDef System enables viewing on all other 3D Displays without any reformatting necessary.

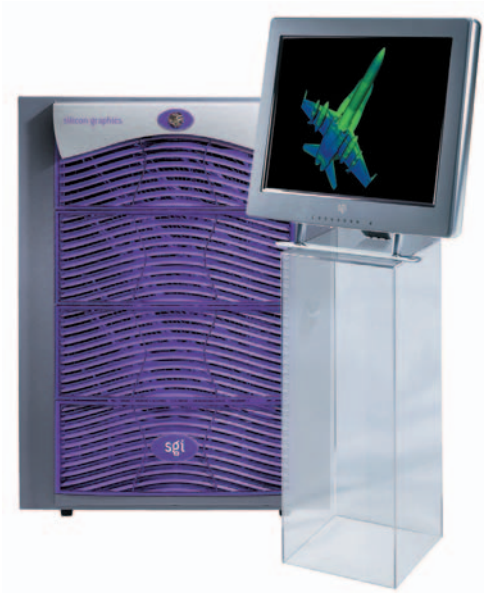
### DDD TriDef 3D Displays & Software

The TriDef umbrella supports a variety of 3D displays from an ever-growing number of 3D display companies. DDD currently resells and/or supports the very best 3D displays available for sale today. Each display vendor offers an array of sizes as well as different optical technologies. The DDD team provides guidance for choosing the ideal display to suit needs on the Onyx4 platform.

TriDef Visualizer on Onyx4 enables any OpenGL application to deliver output suitable for presentation on a 3D display without the software developer having to change the application code. End users seeking to take advantage of the growing number of 3D displays can now do so quickly and easily, with a minimum of development effort. DDD will work to optimize TriDef Visualizer for use with any needed OpenGL application.



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## Highlights

- Ultra-high resolution enables complex rendered data to be displayed and visualized
- Visualizing the finest details of a model or analysis provides greater insight into complex data
- Expert hardware integration and software configuration bundled with every monitor

## Silicon Graphics Onyx4 UltimateVision System

The Silicon Graphics Onyx4 UltimateVision family redefines the boundaries of visualization, transforming workflow and productivity at affordable price points. With price/performance improvements of up to 40 times that of previous systems, visualization power previously only accessible to major facilities can now be routinely deployed to companies and small labs, accelerating time to market. The Onyx4 UltimateVision family delivers powerful new visualization features that radically improve interactivity and insight. Auto-Stereo capabilities and new rendering features (including floating-point precision, programmable shaders, multiple textures per pass, and anisotropic filtering) create a fundamental shift in how visualization problems can be solved.

### Minimum Recommended Configuration:

- 4 pipe, 2 processor Onyx4 UltimateVision System
- IRIX® 6.5.21
- TriDef Visualizer (from DDD)
- SG222 (High Resolution 3D Monitor)



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