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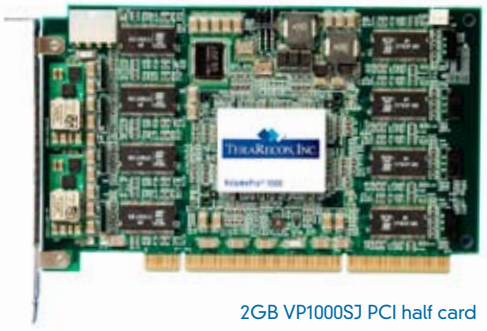
VolumePro®1000

REAL-TIME 3D VOLUME RENDERING SINGLE BOARD SPECIAL PURPOSE COMPUTER



Technology Designed for Rendering Large Volume Datasets with Superior Image Quality

VolumePro 1000 is a single board special purpose computer offering real-time 3D volume rendering with the ability to manage extremely large volumetric datasets with superior image quality. VolumePro is a superior volume visualization solution compared to software-only visualization alternatives. VolumePro 1000 supports multiple boards in a single chassis and can be deployed in cluster computing environments. Up to 4GB of memory are available on a single PCI board! Up to 16GB of volume data can be managed using 4 PCI boards in a single chassis.



2GB VP1000SJ PCI half card

Features:

- **PERFORMANCE:** Renders 512x512x512 in real-time; Concurrent volume updating while rendering; Performance enhancements include space leaping and early ray termination.
- **SINGLE BOARD MEMORY:** Stores up to 3.2GB of volume data on a single PCI board.
- **LARGE VOLUME DATASETS:** Multiple board support of 16GB in a single chassis; Scalable rendering configurations for cluster computing environments.
- **SUPERIOR IMAGE QUALITY:**Auto super-sampling; XY image-order algorithm; Volume data filtering based on gradients.
- **VISUALIZATION:** Real-time lighting on-the-fly; Feature rich classification; Image fusion and display of segmented data through multi-channel rendering; Perspective projection.* (*not available for all applications)
- **INTEGRATION OF VOXELS AND POLYGONS:** Embedded geometry for opaque and translucent volume visualization.

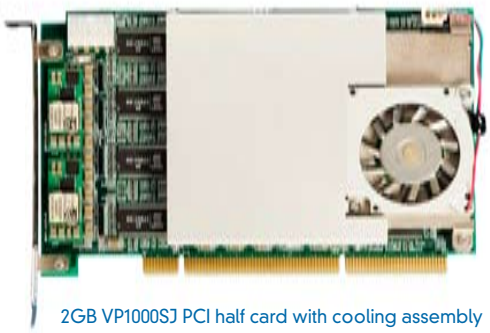
TERARECON, INC.

VolumePro®1000

REAL-TIME 3D VOLUME RENDERING SINGLE BOARD SPECIAL PURPOSE COMPUTER

VolumePro® 1000 OEM Software Development Toolkit (SDK)

TeraRecon's VolumePro SDK enables developers to quickly evaluate, prototype, and integrate VolumePro 1000 with user applications and systems. The development kit contains demonstration software, sample code, diagnostic programs, and complete user documentation. The demonstration software's graphical user interface enables all of VolumePro1000 key features to be easily accessed and manipulated without writing code, using either sample volumes or converted datasets.



2GB VP1000SJ PCI half card with cooling assembly

Specifications:

Performance:

- 1 billion samples per second.
- 512 x 512 x 512 volume displayed in real-time.
- On-the-fly gradient calculation.

Supported Operating Systems and Minimum Requirements:

- VolumePro 1000 can be integrated into any Windows, Linux, or Sun Solaris platform.
- 3.3V PCI signaling. 64-bit, 66MHz PCI is highly recommended.
- PCI-X bus support.
- Any modern OpenGL graphics card.
- 256MB of system memory required.

Memory Configurations:

- 512MB (half sized PCI board)
- 1GB (half sized PCI board)
- 2GB (half sized PCI board)
- 4GB (full sized PCI board)

Volume Library Interface (VLI):

- VLI is a set of C++ classes that provide access to the features of VolumePro 1000.
- VLI works side-by-side with OpenGL, and manages the rendering parameters of 3D volumes and their displaying a 3D scene.

Contact:

For further information on VolumePro 1000 or the OEM software development toolkit, please contact:

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