

Voxar 3D Enterprise™



Rapid, enterprise-wide access
to advanced visualization

- in the **radiology reading room**
- in the **radiologist's office**
- in the **emergency room**
- in the **surgical suite**
- in the **physician's office**
- on the **hospital ward**
- with **associate hospitals**



About Toshiba

Toshiba is one of the world's largest manufacturers of diagnostic imaging systems. From MRI and CT to X-ray and ultrasound. With a strong commitment to R&D, innovative technology is combined with a range of business services to produce total healthcare solutions. These advanced applications not only meet your most immediate clinical needs, they provide a solid foundation for a lifetime of diagnostic confidence.

Request more information

US, Canada and Latin America

Phone: 1-866-9482412 (US toll-free)
3d.sales.us@tmvse.com

Europe / Rest of World

Phone: +44 (0)131 513 9001
3d.sales.eu@tmvse.com

Asia-Pacific

Phone: +852 800 903940
3d.sales.apac@tmvse.com



TOSHIBA MEDICAL VISUALIZATION SYSTEMS EUROPE, LTD.

©Toshiba Corporation 2009. All rights reserved.

Design and specifications subject to change without notice.

Images courtesy of Barco.

Image data courtesy of Dr. Jones and Partners Imaging Practice, Australia; ERESA Centros de Diagnostico, Spain; South Jersey Radiology Association Pa, Brigham and Women's Hospital, Diagnostic Imaging at Baywalk, Manhattan Diagnostic Radiology, Boston Medical Center, USA
Voxar 3D, Voxar 3D Enterprise, Voxar 3D Access and Voxar 3D Elite are trademarks of the Toshiba Corporation.

TMVSE000132-00 © Toshiba Corporation 2009





Achieve fast access to large volumetric studies and advanced visualization tools wherever you need them

VOXAR 3D ENTERPRISE dramatically accelerates the speed at which technologists, radiologists and referring physicians can view large volumetric image studies throughout the medical enterprise:

- in the radiology reading room
- in the radiologist's office
- in the emergency room
- in the surgical suite
- in the physician's office
- on the hospital ward
- with associate hospitals

“ I already had the best 3D software product available on my PACS workstation. With VOXAR 3D ENTERPRISE the rest of the medical center will have it as well. ”

*LTC Lance Williams, MC, Chief Diagnostic Radiology,
Womack Army Medical Center Fort Bragg, NC, USA*



Much more than a thin client solution

VOXAR 3D ENTERPRISE Server

Combines powerful, off-the-shelf server technology and graphics cards to deliver high-performance visualization simultaneously on high-end diagnostic PACS workstations and standard networked PCs.

- Scales to the number of users required. These users can access the power of VOXAR 3D's advanced visualization tools on a concurrent "floating" license basis from any networked PC throughout the enterprise.
- Powerful graphics cards provide hardware-based 3D acceleration, delivering real-time video rates of over 20 frames per second on standard PCs.
- VOXAR 3D ENTERPRISE can act as a data cache in environments without a PACS or when the PACS is not designed to manage volumetric data.

VOXAR 3D ELITE

Designed to run on high-end diagnostic workstations, VOXAR 3D ELITE provides full Voxar 3D workstation functionality, including all available clinical applications.

- Allows you to load 1000 images in less than 15 seconds
- If a graphics card is installed, VOXAR 3D takes maximum advantage of its performance in order to provide extreme rendering speed.

VOXAR 3D Access

Provides access to the most commonly used advanced visualization tools on a standard networked PC connected to the VOXAR 3D ENTERPRISE server.

- Allows you to view 1000 images in less than 10 seconds on a 100 Mbps network.
- Advanced processing of image reconstructions are created and streamed to your screen in real time.



Scalable, cost-effective and integrated into PACS

New, enterprise-wide PACS integration options

Building on Toshiba's portfolio of industry-leading PACS integrations, VOXAR 3D ENTERPRISE introduces new options for increased speed and enterprise-wide access to advanced visualization.

VOXAR 3D ENTERPRISE can be integrated into numerous enterprise-wide PACS environments, providing a rapid, one-click integration with the advanced visualization tools of VOXAR 3D. Unlike other solutions, there is no need to manage two work lists; one for PACS and one for your advanced visualization application.

VOXAR 3D ENTERPRISE can also act as a data cache for large volumetric studies when your PACS is not equipped to manage and archive these studies.

Alternatively, VOXAR 3D ENTERPRISE can be economically integrated into your radiology workflow as an interim solution when PACS is not present. A direct DICOM connection enables access to your CT, MR and PET modalities

Off-the-shelf technology

VOXAR 3D ENTERPRISE is the only solution to use powerful, off-the-shelf server technology and high-performance commodity graphics cards, which means you are not locked to proprietary hardware development cycles. This allows you to take advantage of existing supplier arrangements and use your existing IT infrastructure. You also benefit from the latest IT technologies at the most competitive prices available.

Web-based deployment

The installation and maintenance of VOXAR 3D client installations is easily achieved using web-based administration tools. This makes administration effortless and effective. Upgrades are quick and easy and in the case of VOXAR 3D ACCESS automatic.

Cost-effective enterprise-wide licensing

VOXAR 3D ENTERPRISE'S cost-effective licensing approach enables you to make advanced visualization and analysis tools available on a concurrent license basis everywhere you need them to be: within the radiology reading room and throughout the hospital-enterprise.

Communication of complex image reconstructions across the enterprise

Use VOXAR 3D to bookmark and restore complex post-processing steps and image reconstructions, and distribute them to clinical colleagues throughout the enterprise. Using VOXAR 3D ENTERPRISE, your clinical colleagues can further manipulate image reconstructions using VOXAR 3D'S Live Image capabilities.



Maximize performance in multiple imaging environments

Advanced visualization tools need to be instantly available anywhere you need to access your CT, MR and PET image studies. By providing the right technology solution, VOXAR 3D ENTERPRISE delivers speed and performance in multiple imaging environments.

Much more than a thin client solution

• Inside the radiology reading room

VOXAR 3D ENTERPRISE rapidly delivers large volumetric image studies to your high-performance diagnostic workstation - running VOXAR 3D ELITE - for local processing and analysis.

• Outside the radiology reading room

Throughout the rest of the hospital, the viewing station is likely to be a standard networked PC, operating over a standard 100Mbit intranet link. In such a setup, image reconstructions are created at the VOXAR 3D ENTERPRISE Server and the results are streamed to your PC - running VOXAR 3D ACCESS - in real time.

“Large volumetric studies are the nemesis of most PACS solutions. VOXAR 3D ENTERPRISE integrated into your PACS is the answer to this problem. It allows us to reliably and consistently load 2500+ images in less than 20 seconds from anywhere within the hospital.”

*Nikunj K. Patel M.D., Director of Technology, Dept. of Radiology,
Co-Director Scripps Clinic Carmel Valley Scripps Clinic, La Jolla, CA*