

Aquarius **NET**

ENTERPRISE-WIDE INTERACTIVE 3D IMAGE DISTRIBUTION



The Comprehensive Solution for 3D Image Management

TeraRecon's AquariusNET Server economically delivers workflow friendly interactive 3D to radiologists and clinicians wherever they are, facilitating enhanced workflow, aiding patient diagnosis, and maximizing the hospital's overall investment




TERARECON, INC.



Enterprise-Wide 3D Distribution and Image Management

AquariusNET streams real-time, interactive diagnostic review of 2D, 3D, and 4D images across the clinical enterprise to networked 'thin client' PCs. Comprehensive clinical applications are incorporated with efficient workflow-enhancing tools and an intuitive user interface with reporting capabilities.

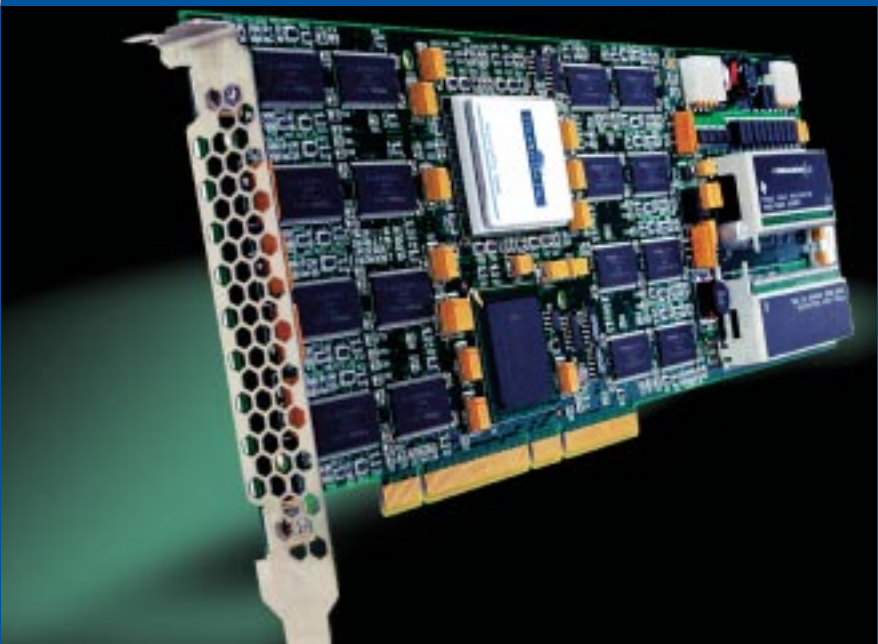


Workstation-like performance for thin-client PCs integrated into the Clinical PACS workflow

AquariusNET Server is a uniquely powerful 3D enterprise server /thin client solution for integrating advanced processing tools economically and efficiently into the clinical PACS workflow. AquariusNET Server enables real-time 3D on a flat panel PC right next to the diagnostic PACS review monitors, or any other regular PC across the enterprise.

VolumePro Rendering Technology for the Most Demanding Data

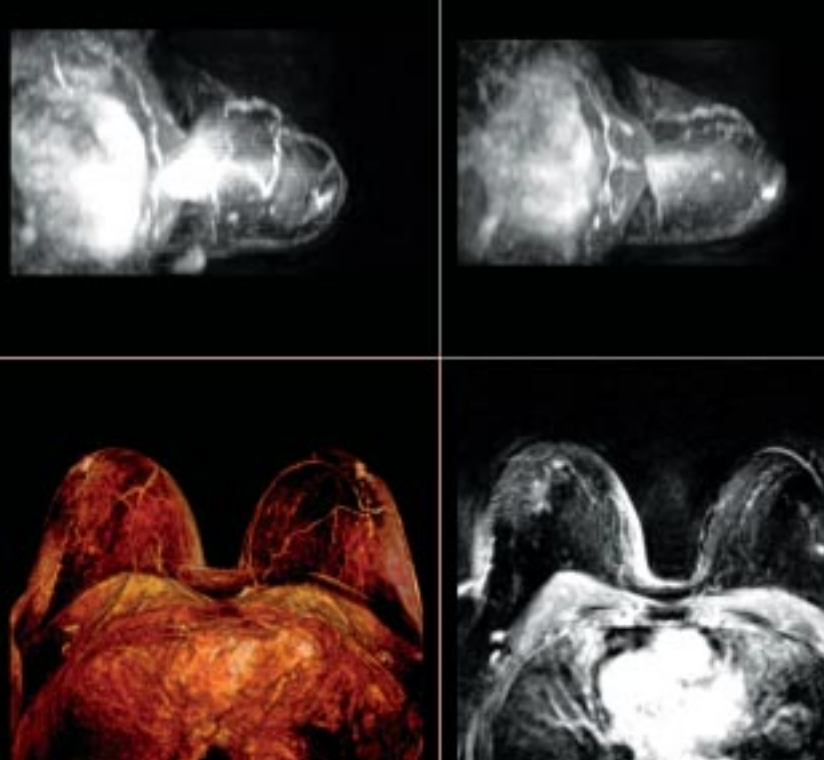
AquariusNET offers uncompromised performance, image quality, and clinical functionality. Thanks to its patented VolumePro rendering technology, AquariusNET delivers real-time interactive 3D wherever post-processing is needed, even on cardiac or run-off studies with 2000 or 3000 slices. Large slice CTA and MRA studies can be quickly loaded with segmentation and editing tools to distinguish pathologies, blood vessels, and bone.



AquariusNET PACS Integration

AquariusNET provides a very simple interface which allows PACS vendors to provide their customers with a common-worklist integration with minimal effort.

The AquariusNET client has already been integrated in this way with several of the PACS systems currently available, enabling real-time 3D, MIP and MPR tools to be launched directly from the PACS software with a single button click or menu selection.



Integration with your diagnostic workflow

The AquariusNET client software can be launched from standard PC's across the enterprise, including PC-based PACS reading stations. The server can receive from or query multiple modalities, providing a true advanced processing environment for your diagnostic workflow.

Cost-Effective 3D Tools for the Clinical enterprise

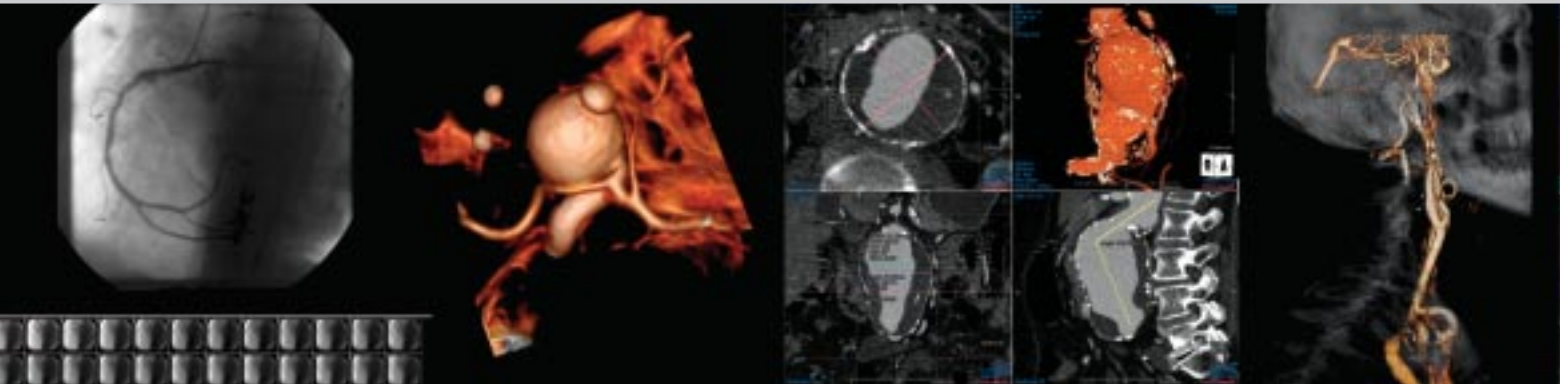
Low cost PCs, sourced by the hospital, are empowered by the AquariusNET Server to deliver interactive 3D anywhere. A license for unlimited client use is included, so any PC can operate as a client without cost or restriction.

Personal Digital Light Box(PDLB)

The PDLB is a high-resolution large format display solution. PDLB is designed to replace conventional film light boxes in reading rooms, clinical settings, and near surgical suites. As a client to AquariusNET, PDLB integrates review of static 2D CT, CR, MR and other images with interactive real-time 3D in one large-format display medium.



AquariusNET Server— Interactive Image Distribution for the Clinical Enterprise



Comprehensive Image Management Solutions Integrated Within the Clinical Workflow

Concurrent User Sessions—

A single AquariusNET Server can manage over 10 thin-client interactive PC sessions simultaneously.

Network Management of Large Slice Studies—CT/MR datasets need only be routed to one location, unburdening the network from the task of transporting multi-gigabyte studies to various PACS or 3D workstations throughout the PACS enterprise.

Minimal Bandwidth Required—Large slice CT/MR studies reside on the server, and only image updates are streamed “on-demand” to client PCs based on incoming mouse commands.

Scalable Processing—AquariusNET Server can be upgraded with up to 16GB of volume memory, enough to manage over 27,000 CT slices simultaneously from one centrally shared resource.

DICOM Query/Retrieve—Different modalities can push image studies to the server, or the server can query/retrieve studies from multiple modalities.

Long-Term Storage—TeraRecon offers a redundant archival RAID solution for long-term storage and management of images.

Distributed Clustering Solutions for the Enterprise—AquariusNET Server can be clustered as a virtual networked resource, linking multiple servers within the network for integrated diagnosis and reading from any user on the network. One thin client PC can access any or as many servers as required for remote interactive review.

Interactive Reporting—Saving studies on the server within a Microsoft Word document automatically generates an interactive report.

Security & Privacy—Virtual Private Network (VPN) access with user name and password authenticates the user access to the server. Data encryption is employed to guarantee private communication between client and server.

Enterprise-Wide Image Management, Distribution, Storage, and Network Scalability



Advanced Clinical Applications, Editing, and Visualization Tools

Time Resolved Studies—Multi-phase 4D support for time dependent 3D MRAs and CTAs.

Image Fusion—Multi-modality overlay with manual registration.

Automated Templates—Cases are loaded directly to the clinically appropriate 3D view.

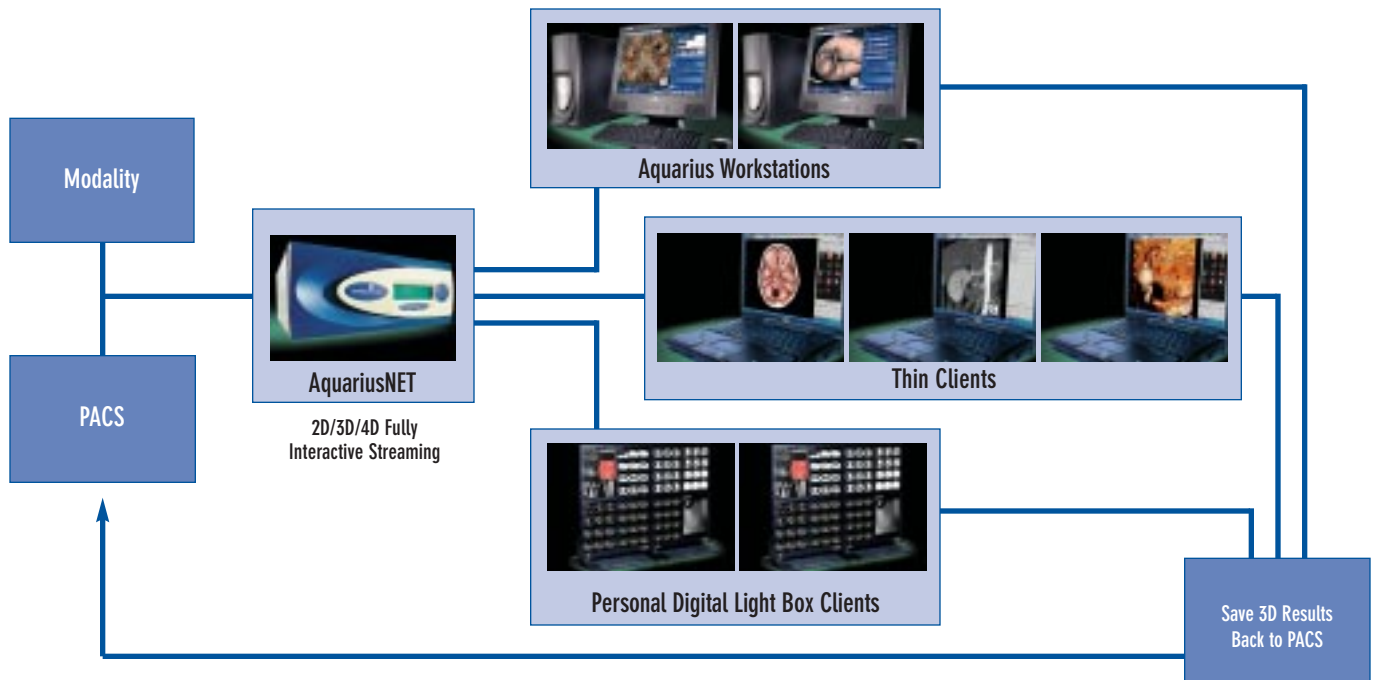
Quick Cubic Viewing—quick examination tool to visualize volumetric regions of interest from the inside and outside.

3D Measurement—Advanced 3D measurement tools allows for volumetric 3D measurements, useful for biopsy planning.

Movie Creation—Movie export tool provides fast AVI creation from 2D or 3D.

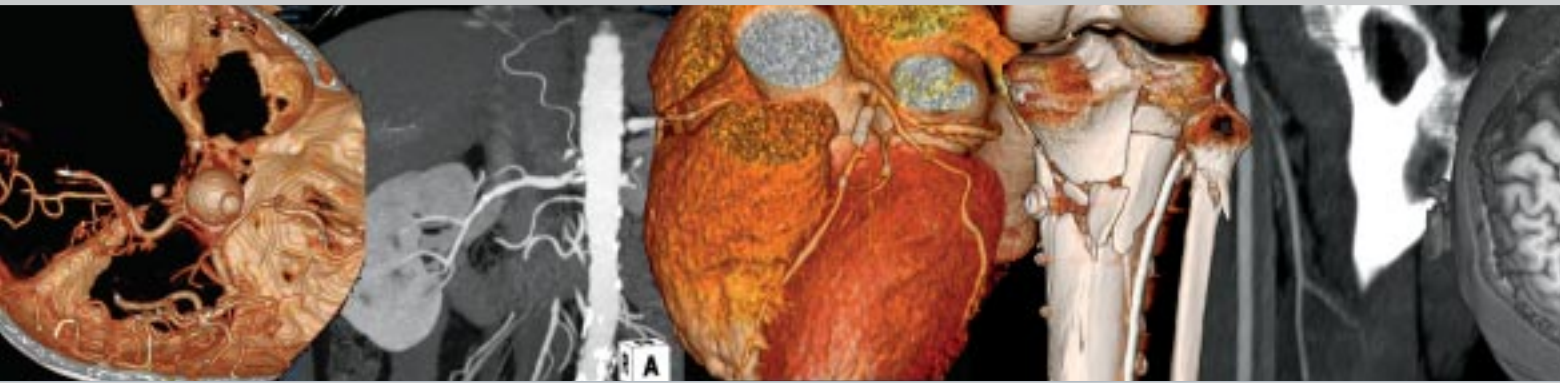
MPR Tools—Double oblique MPRs can be viewed with 3D measurements on the oblique planes.

CPR Tools—Curved Planar Reformats allows for vessel distance measurements.



"Given the wide diversity of needs, the server-client system is the most logical way to deliver 3-D services in a medical institution. It is especially remarkable that image quality can be so good when viewing studies using an inexpensive PC."

Geoffrey Rubin, M.D.
Chief of Cardiovascular Imaging,
Co-Director of the Stanford University 3D Laboratory



Solutions Along the Entire Medical Imaging Pathway

TeraRecon offers advanced imaging solutions, including enterprise image distribution servers, advanced 3D workstations coupled with workflow-enhancing clinical applications, real-time volume rendering engines, the Personal Digital Light Box, and other innovative image processing solutions.

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