

Aquarius

PREMIER 2D/3D/4D IMAGING WORKSTATION



Discover the Power of Real-time Imaging with TeraRecon's Patented Image Processing Technology

Aquarius brings award-winning real-time 3D visualization technology to diagnostic imaging. It offers a comprehensive suite of clinical applications, and unsurpassed image quality at incredible speed.



TERARECON, INC.

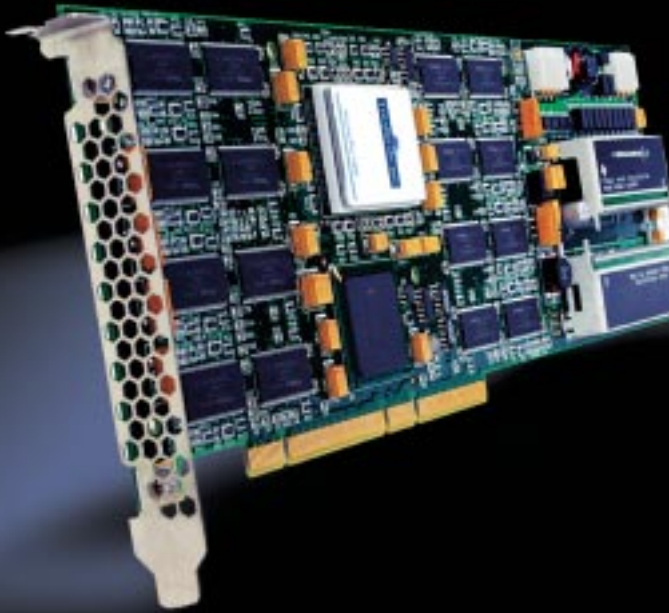
Designed For Modern Multi-Slice CT & MR Scanners

Aquarius enables real-time diagnostic review of 2D, 3D, and 4D images from almost all modalities, and incorporates workflow-enhancing tools with an intuitive user interface. Aquarius is designed to manage the most demanding volumetric datasets acquired from modern multi-slice CT and MR scanners. It offers a comprehensive suite of clinical application modules and has been carefully designed for streamlined workflow and ease-of-use.



Real-time VolumePro™ Volume Rendering Technology for the Most Demanding Data

Aquarius offers uncompromised performance, image quality, and clinical functionality. Thanks to its patented VolumePro rendering technology, Aquarius delivers real-time interactive 3D, even on cardiac or run-off studies with 2000 or 3000 slices. Studies can be rapidly loaded with segmentation, editing, analysis, and region-growing tools to distinguish pathologies, blood vessels, and bone.



Aquarius Grows with your Enterprise

Aquarius is designed to work seamlessly with AquariusNET Servers and the Personal Digital Light Box, extending the reach of your available infrastructure and your imaging investment. Clinical findings can be illustrated on Aquarius, then sent to AquariusNET Server for interactive image distribution across the clinical enterprise to thin client PCs anywhere.



Diagnostic Radiology

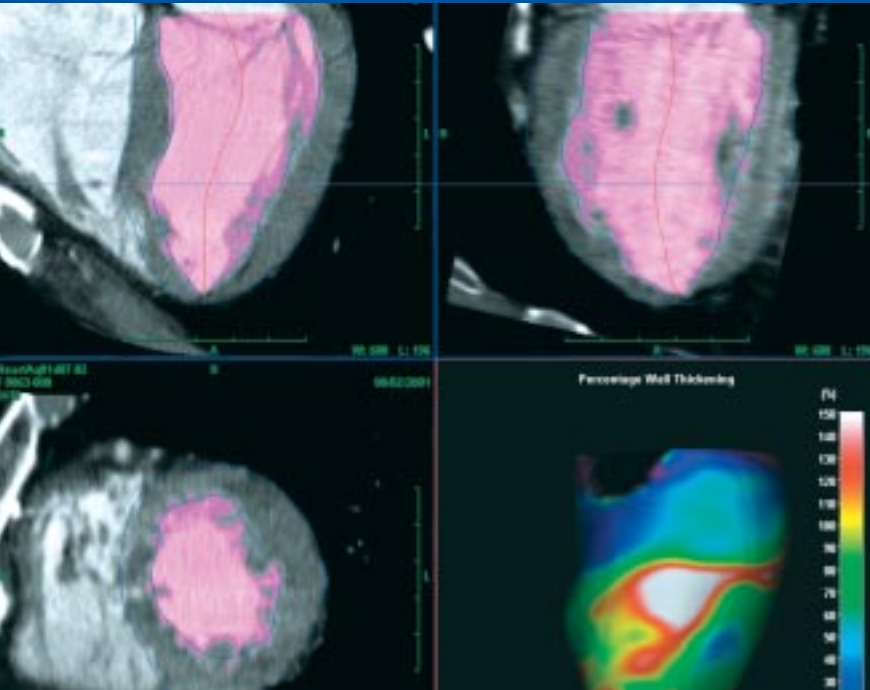
Vessel Analysis—

Endovascular analysis & interventional planning.

Neuroradiology—Interventional planning for aneurysms & tumors including time-density analysis.

Orthopedic—Trauma evaluation & surgical planning.

Vascular—Evaluation of occlusive and aneurysm disease, intra-abdominal abnormalities, embolization, dissection, thrombosis, and malignancy.



Cardiac

Coronary stent planning, plaque evaluation, and stenosis of coronary branches.

Volume Analysis—CT / MR evaluations of ventricular function and myocardial dynamics.

4D Time Resolved MRA—view multiple 3D datasets for better diagnosis & faster workflow.

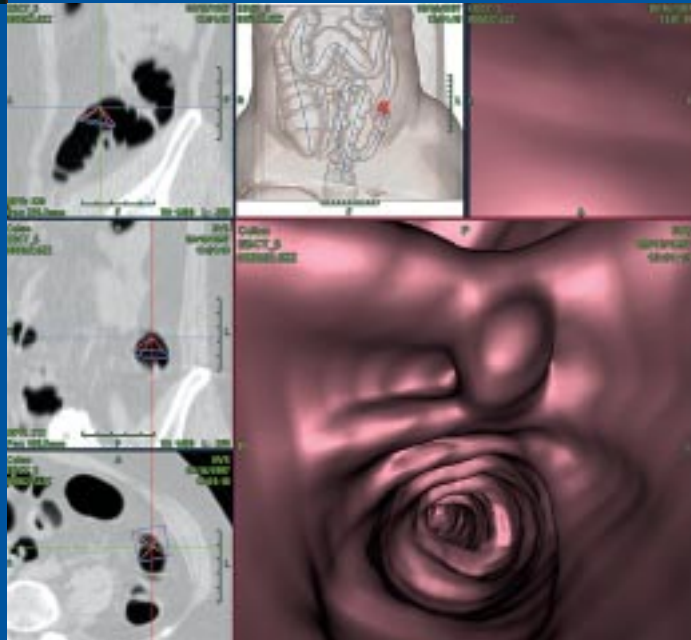
Calcium Scoring—
Automated workflow and reporting.

Oncology

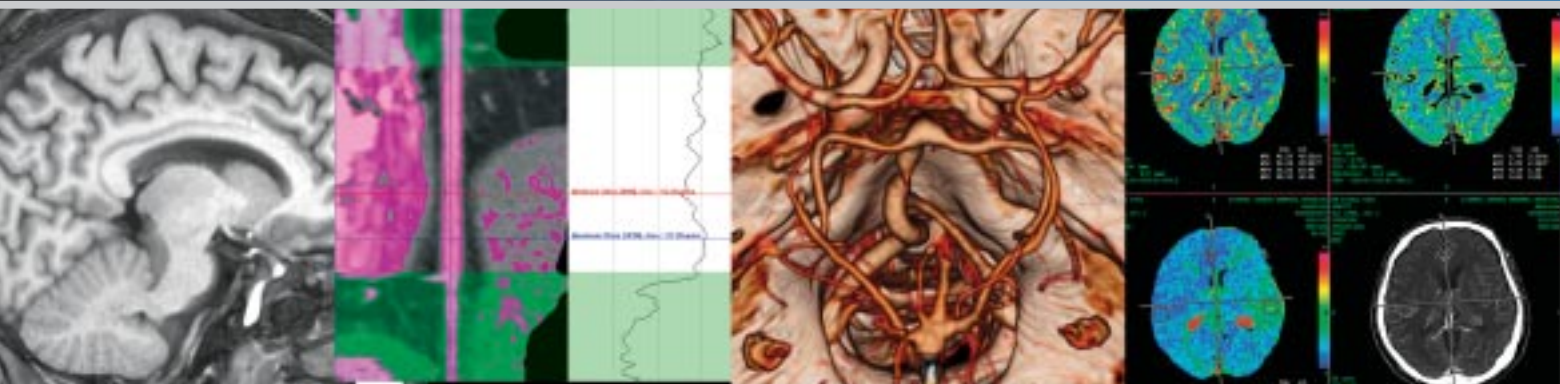
Oncology—Tumor characterization with volume measurements and detailed evaluation of vascular supply.

Lung—Solitary pulmonary nodule assessment with auto segmentation and volume measurements.

Colonography—Integrated 2D/3D and side-by-side review. Rapid auto-navigation with endoluminal analysis.



An Integrated Suite of Clinical Tools for Segmentation, Visualization, and Analysis



Clinical Analysis Tools

SAT: Segmentation-Analysis Tracking for analyzing and tracking volumes.
[e.g. soft-tissue masses or solitary pulmonary nodules.]

TDA: Time-Density Analysis for studying time-dependence of contrast enhancement.
[e.g. Enhancement of brain tissue due to perfusion with contrast enhanced blood.]

TVA: Time-Volume Analysis for analyzing changes in volume over time.
[e.g. change in volume of left ventricle during the cardiac cycle.]

VAT: Vascular Analysis Tool for analyzing thrombus, calcifications, and endoleaks.

Calcium Scoring Analysis to detect and quantify atherosclerotic plaque burden in the coronary and other arteries.

Advanced Segmentation, Measuring, and Editing Tools.

Automated Templates load cases directly to the clinically appropriate 3D and/or reformatted views.

Quick Cubic Viewing is a quick examination tool to visualize volume regions of interest from the inside and outside.

Advanced 3D measurement tools allow for angle and distance measurements relative to fiducial markers.

Region growing includes erosion, dilation, and masking.

Colon, Vascular, and Pulmonary Flythroughs

Fly-Through 3D with fast loading allows for interactive navigation of colon, vasculature, and bronchial airways.

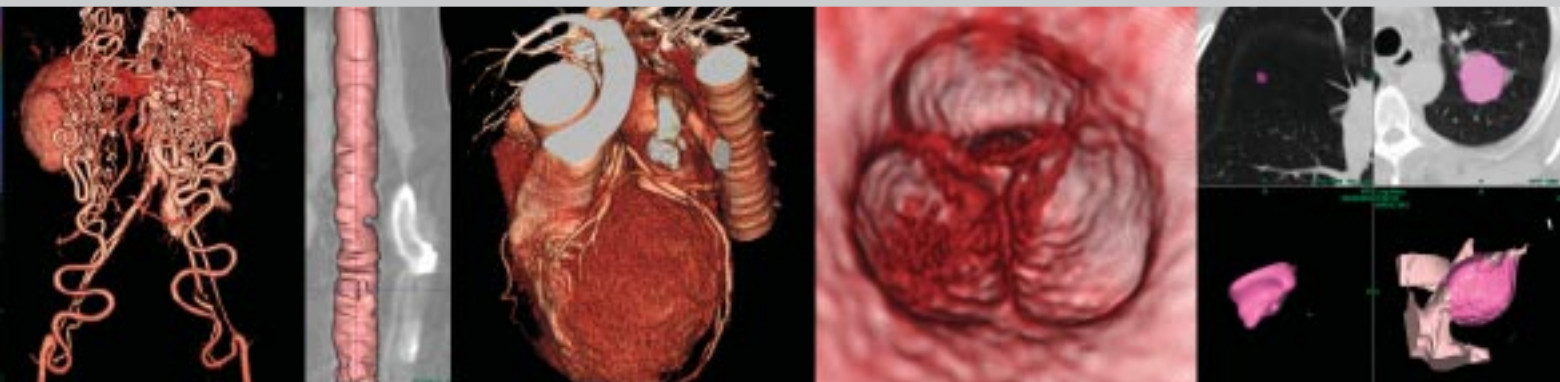
Flythrough movies may be created and distributed to referring physicians.

Suspect lesion markers facilitate later correlation between 3D and 2D source images.

Cameras may be stopped and reoriented on the fly.

Unfold the colon and visualize in wrap-around endoluminal 3D to reveal and assess the entire structure rapidly.

Aquarius Grows with Your Enterprise

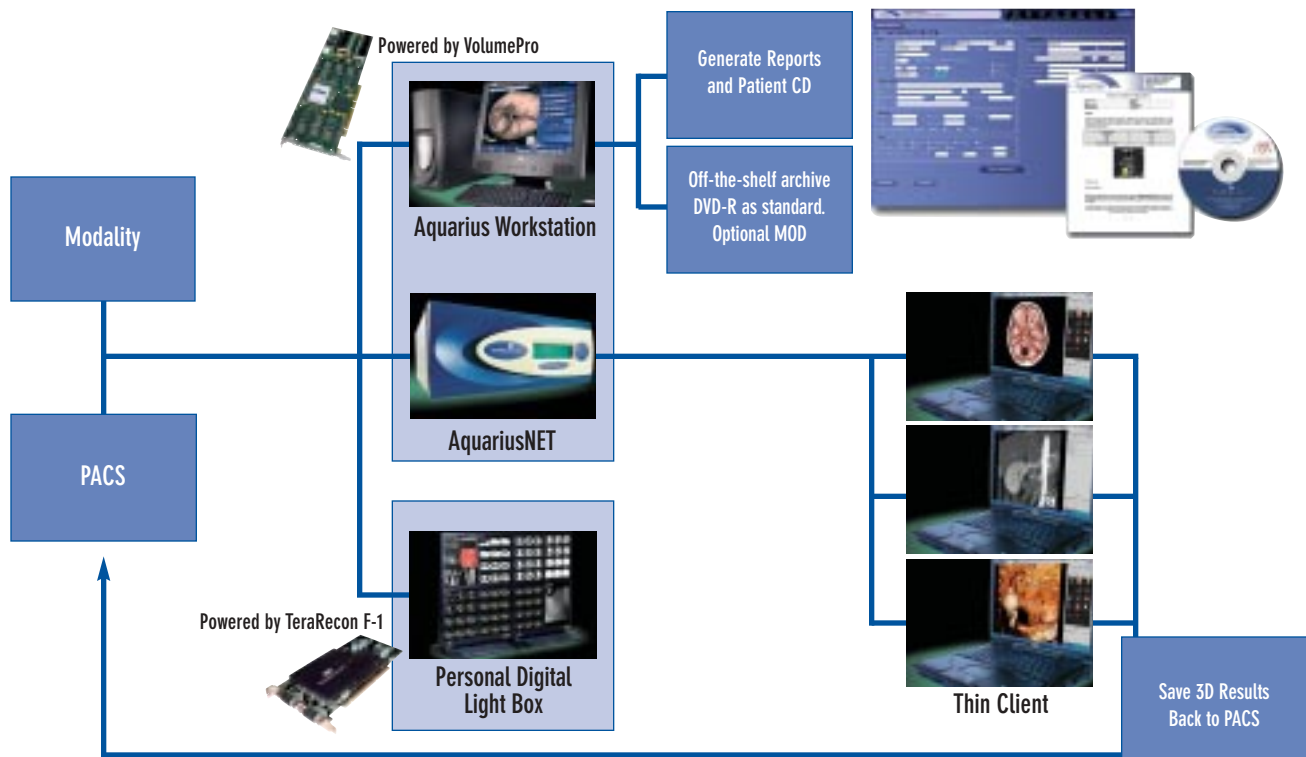


Integrated 3D Your Diagnostic Environment

Aquarius Workstations, AquariusNET Servers, and Personal Digital Light Boxes are real-time interactive imaging solutions designed to be easily incorporated into everyday clinical workflow.

When combined with AquariusNET imaging server, the Aquarius family of products deliver distributed, real-time interactive 2D, 3D, and 4D clinical solutions anywhere in the networked enterprise.

When combined with the Personal Digital Light Box, softcopy review can be extended on high resolution, large format displays, delivering real-time interaction for 2D, 3D, and 4D imaging to radiology reading rooms, physicians offices and surgical settings.



"I've reviewed many vendor's iterations of Radiology Workstations. The TeraRecon WS is already an excellent product, but what truly differentiates TeraRecon's software is the addition of their real-time volume rendering graphics card which dramatically improves its speed, which of course improves our efficiency."

Ted S. Wen, M.D.
Medical Director, Radiology
Presbyterian Hospital of Plano, TX



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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