

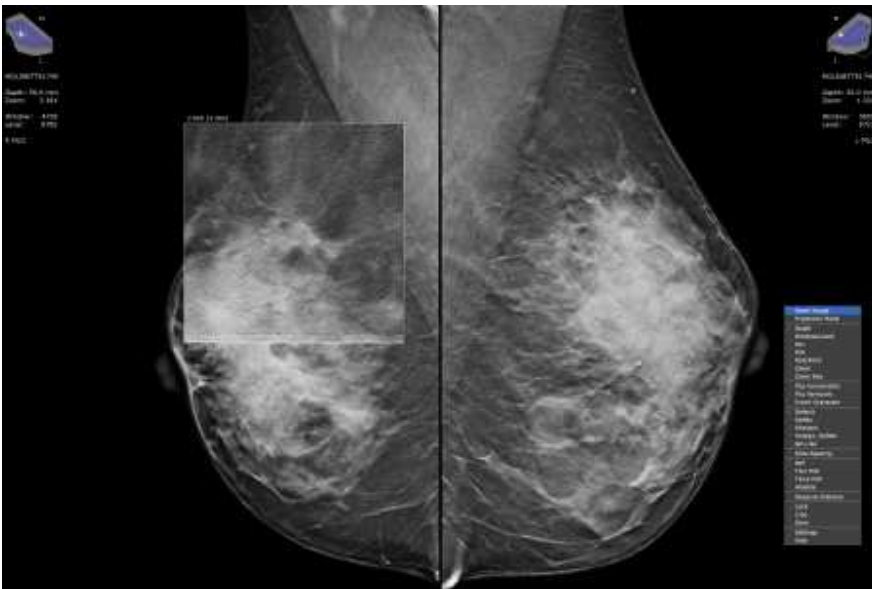
# Real Time Tomography, LLC

Improving Diagnostic Accuracy and Clinical Workflow

## Piccolo™

### Digital Breast Tomosynthesis Clinical Research Workstation

**Piccolo™** is Real Time Tomography's state-of-the-art Digital Breast Tomosynthesis (DBT) workstation for image research and analysis.



The Piccolo workstation is a fully-featured clinical research workstation with advanced 3D imaging capability, innovative clinical and diagnostic features, and image analysis tools.

Powered by Real Time Tomography's **Briona™** 3D image reconstruction library, Piccolo redefines how 3D digital breast tomosynthesis images are reconstructed, with on-demand image reconstruction at real-time, user-interactive frame rates. Its innovative 3D imaging features expand the diagnostic capability of tomosynthesis imaging.

The Piccolo workstation comes with a powerful set of available image processing algorithms and filters that make image reconstruction and image quality optimization a breeze.

Piccolo is an ideal tool for system design and development. Piccolo supports the tomosynthesis geometries of most major manufacturers.

Used by leading academic institutions and corporate research labs, the Piccolo workstation is designed for scientific and engineering use.

### PICCOLO FEATURES

#### Advanced 3D Imaging

##### Dynamic Reconstruction

Reconstruct a 3D image from projection data at any depth and angle in real-time and on-demand.

##### Super-Resolution

Better visualize small structures with higher resolution images.

##### Multi-planar Reconstruction

Multi-planar reconstruction (MPR) enables viewing of difficult areas that do not lay parallel to the detector plane.

##### Dynamic Filtering

Adjust filters to improve visibility, lesion conspicuity, and to minimize differences in image presentation between vendors.

##### 3D Volume Reconstructions

Maximum Intensity Projections (MIPs), MIP MPR and Region of Interest (ROI) volume reconstructions.

#### Image Analysis

##### Filters

Dynamically select and adjust Piccolo's filters and image processing functions for optimal image quality.

##### Geometry Parameterization

Optional geometry parameterization facilitates system design and optimization.

##### Histogram & Pixel Value Display

Interrogate and analyze image data using Piccolo's image analysis toolset.

**Piccolo is for Investigational use only.**

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## Piccolo Workstation Features

- DICOM Storage Class Provider (SCP)
- Patient Worklist menu with Drag and Drop
- Mammography and Tomosynthesis DICOM support
- Customizable Hanging Protocols
- Image Display: true size, full resolution and fit-to-screen
- Dual and 4-up real-time image reconstruction
- Side-by-side 3D image display at same depth and orientation
- Co-registered 2D and 3D images
- Dynamic, adjustable imaging processing filters
- Multi-planar reconstructions (MPRs) with user-defined rotation point and 6 degree control
- Multiple maximum intensity projection (MIP) modes
- Vendor-based filter control
- Linear and sigmoidal look up table (LUT) support
- Full-screen super-resolution magnification
- Magnification glass with super-resolution
- Measurements (including in MPRs)
- Histogram equalization tools
- Quad zoom
- Cine mode
- 3D Navigation Icon with scaled anatomy and reconstruction plane
- Standard viewing tools: pan, magnify, pixel invert, horizontal and vertical flip, window and level

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## Piccolo System Specifications

- Dell® Precision® workstation with an Intel® multi-core central processor unit (CPU)
- Single or dual NVIDIA® graphics processing units (GPUs)
- Minimum 4 GB of system memory.
- Fast boot disk and large secondary hard disk for image storage.
- Navigational color monitor
- Optional single or dual high-resolution 2, 3 or 5 megapixel (MP) grayscale monitors.
- Available for Microsoft® Windows XP®, Vista® and 7®, 32-bit and 64-bit operating systems.
- Requires a valid software registration key provided by Real Time Tomography
- Customized configurations are available



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For more information contact:

**+1 484-234-2228**

[info@RealTimeTomography.com](mailto:info@RealTimeTomography.com)

[www.realtimetomography.com](http://www.realtimetomography.com)