

Technology from

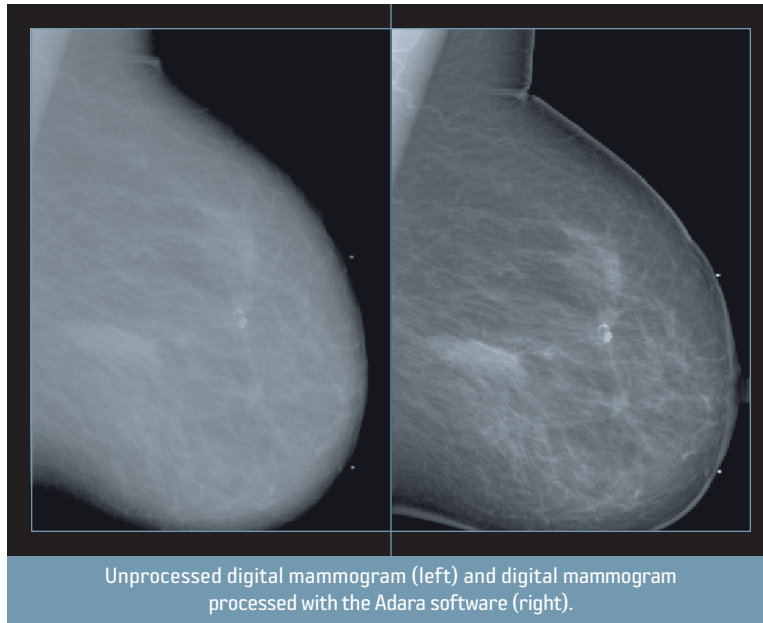
# Real Time Tomography, LLC

Improving Diagnostic Accuracy and Clinical Workflow

## Introducing the Adara Difference

### Advanced Image Processing and Enhancement for Mammography

Adara enhances the quality of digital mammograms for optimal tissue contrast and lesion conspicuity.



Unprocessed digital mammogram (left) and digital mammogram processed with the Adara software (right).

Adara is fast, flexible and easy-to-integrate into new and existing acquisition and reading workstation software.

### Better Image Quality, Better Clinical Assessments.

Adara™, from Real Time Tomography, is advanced image processing and enhancement software for digital mammography. It provides optimal tissue contrast and lesion conspicuity without the introduction of artifacts.

Its speed, flexibility and ease-of-integration helps mammography and PACS workstation manufacturers accelerate the time to market of their next generation acquisition and PACS workstation systems.

Adara is independent of the acquisition system. It can process x-ray image data from Full-Field Digital Mammography (FFDM), Computed Radiography (CR) and film digitizers.

The Real Time Tomography team, innovators in 3D real-time imaging, applied their expertise to create image processing algorithms specifically for the optimization of mammography images. Adara addresses the challenges of breast imaging including variations in thickness and tissue densities and the requirements for high spatial resolution and low dose.

Adara improves image quality of mammography images with *optimized algorithms* for:

- Breast segmentation
- Thickness equalization
- Tissue contrast enhancement
- Feature enhancement
- Noise suppression

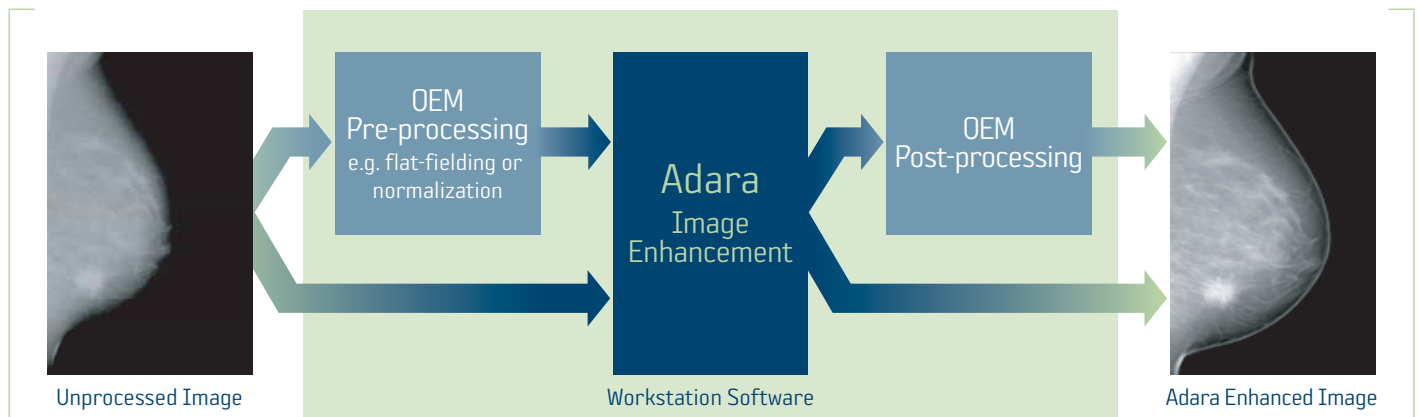
**FAST** Adara only requires a few seconds for a standard size mammogram on a conventional workstation. It enables higher throughput during screening and diagnosis, thereby accelerating clinical workflow.

**FLEXIBLE** Adara's image processing is controlled and adjusted with software parameters for different breast types, views and reading preferences.

**EASY to INTEGRATE** Adara easily integrates into new and existing manufacturer software because it is implemented as a parameter-driven software library with a complete software development kit (SDK).

# The Adara Difference

## The Adara Process



### Software Development Kit (SDK)

Adara is a dynamically linked library with parameterized functions. The Adara SDK supports easy integration into the workstation application software (see figure above). It can be used alone or in concert with OEM pre- and/or post-processing.

### Operation

Adara operates on images from memory to memory. After image processing, Adara facilitates initial image display and lookup table specification with window and level values suitable for the processed image.

### Performance

Adara has multi-threading capability. A standard mammographic image can be processed in 2 to 5 seconds, depending on image size, parameter selections and available processors and memory.

### System Requirements

The minimum system requirement for the Adara library is a workstation using the Microsoft® Windows® XP or Vista® operating system 32-bit or 64-bit.

## Real Time Tomography, LLC

### Data Format

Adara supports up to 32-bit monochrome pixel data.

### Licensing

The Adara software library operates with a valid software registration key obtained from Real Time Tomography.

### Quality Standards

Real Time Tomography's development process is disciplined from many years of proven experience in developing medical systems software. Real Time Tomography's team follows quality engineering practices as defined by the FDA GMP.

### Customer Satisfaction

The Real Time Tomography Adara team will work collaboratively with each customer's technical team for a seamless integration of the Adara software and with their clinical specialists to select the image processing parameters to achieve the desired image quality.

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