



The power and promise of breast tomosynthesis is here

Selenia® Dimensions® system with Acquisition Workstation 5000



# 3D mammography: A new dimension in early breast cancer detection

What if we could find breast cancers earlier?<sup>1-3</sup> What if doctors could see lesions more clearly?<sup>4</sup> What if we could help reduce the number of unnecessary biopsies?<sup>4</sup> Questions like these inspired Hologic researchers and scientists to develop breast tomosynthesis, now known as 3D mammography.

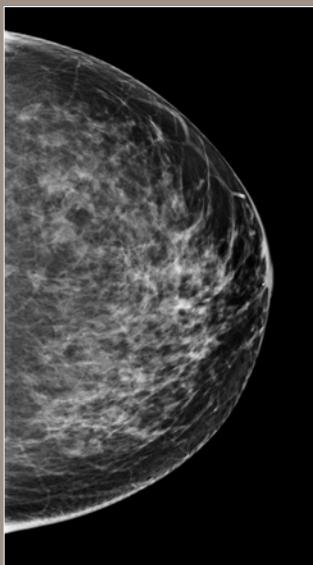
**Selenia® Dimensions® with Acquisition Workstation (AWS) 5000 allows you to tailor the system to fit your unique workflow and budgetary needs with:**

- Ergonomic, motorized height adjustment feature.
- Your choice of paddles, accessories and license options.
- A flexible platform that allows you to start with both 2D and 3D mammography for screening, diagnostic and interventional procedures. Or purchase a 2D digital mammography-only system, and add tomosynthesis imaging with a simple software upgrade.\*

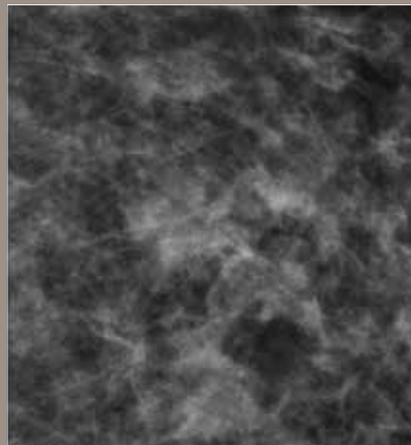


\*Additional purchase applies.

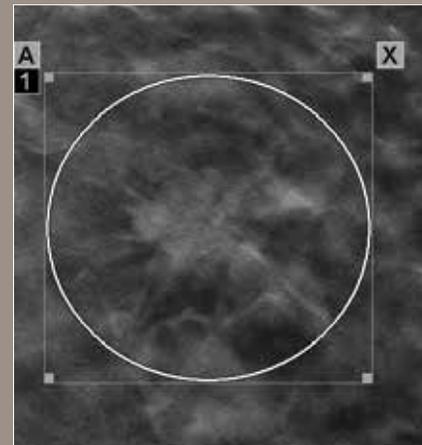
**Hologic 3D mammography. The only system with proven superior clinical performance.<sup>1-3</sup>**



2D mammogram



2D mammogram enlarged region of interest



3D slice enlarged region of interest showing spiculated mass suspicious for cancer which was invasive ductal carcinoma on biopsy

# Not all 3D mammography systems are the same

Image quality is key to early detection, which is why we continue to push our breast imaging technology forward, and the Selenia® Dimensions® 3D system is no exception.

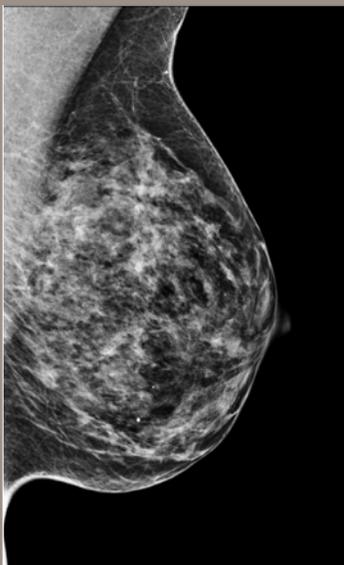
- System design has been optimized for tomosynthesis imaging with proven results:
  - Rapid scans take less than 4 seconds.
  - 15-degree scan provides high in-plane resolution.
  - Acquisition of 15 projection images (1 image/degree of arc) and filtered back reconstruction enable rapid reconstruction of high quality images.

## Selenia Dimensions: lower dose 3D mammography

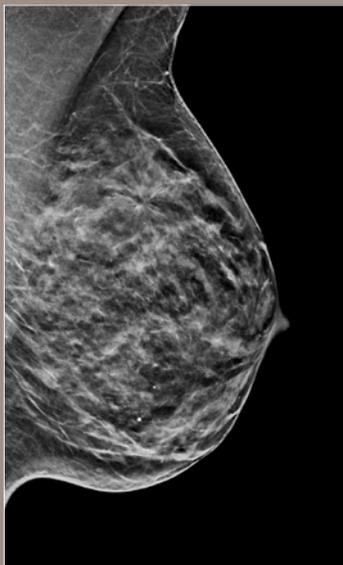
The C-View™ software produces 2D images from tomosynthesis slices without 2D exposures. The use of C-View software enables a combined 2D/3D exam with a scan time of less than 4 seconds total, lessening the patient's time under compression to improve patient comfort, while lowering the risk of motion.

3D mammography exams with C-View software offer a clinically superior exam with virtually the same radiation dose compared to standard 2D imaging.<sup>6</sup>

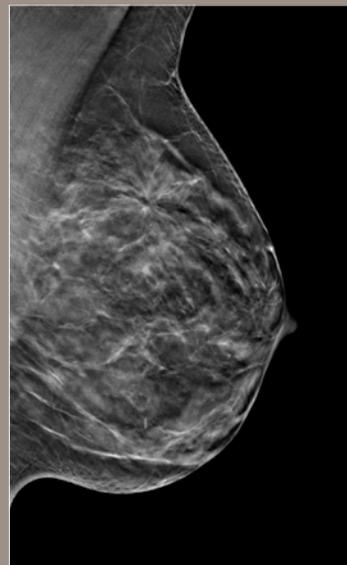
C-View software brilliantly reconstructs highly detailed 2D breast images from a 3D tomosynthesis data set.



2D image



C-View image



3D slice

## Streamlining workflow — perform the imaging of tomorrow, today

The Selenia® Dimensions® system with AWS 5000 incorporates the latest technologies to simplify workflow and facilitate high patient throughput.

### User-friendly controls

Intuitive icons and function screens allow the operator to move through exams quickly and efficiently.

### Height-adjustable console

The AWS 5000 features a push-button, height-adjustable tabletop to give technologists the flexibility to adjust the workstation to their comfort needs. Range of height adjusts from 33.1 in (84 cm) to 44.6 in (114 cm).

### High-resolution display

Projection and reconstructed images are instantly viewed on a 2MP LCD-calibrated display, providing fine image detail. Prior breast imaging studies can be recalled, making it possible to view new and prior images side by side.

### Multiple procedure modes

- 2D Only
- 2D + Tomosynthesis (3D)
- C-View™ 2D + Tomosynthesis (3D)
- Tomosynthesis (3D) only (for diagnostic use)

In any mammography mode, compression automatically releases after imaging.

- Interventional

Every system is capable of interventional procedures using the Affirm™ breast biopsy guidance system. This system offers both stereotactic and 3D biopsy procedure options.\*

\*Additional purchase applies.



Height adjusts from 33.1 in (84 cm) to 44.6 in (114 cm)



High resolution display

## Ergonomic design for comfort and ease of operation

The Selenia Dimensions system is designed to streamline workflow for the technologist, while providing a more comfortable experience for your patients.

### Optimized face shield

- **Retractable for positioning:** The technologist has the option of retracting the face shield while positioning patients.
- **Stationary during imaging:** The face shield does not move during the 3D exam, allowing patients to be positioned as they are for 2D imaging, with their face resting on the shield to help them remain still.

### Advanced paddle technology

Our acclaimed FAST Paddle™ system, utilizing Smart Paddle™ technology, conforms to the natural contour of the breast, providing greater comfort to the patient and more even compression across the entire breast. All of our paddles can be used for both 2D and 3D imaging for greater flexibility, and the light and easy-to-handle paddles can be converted from flexible to a standard screening paddle with the push of a button.

### Natural positioning

Indented spaces on the side of the gantry give patients a natural spot to place their hands during exams, making positioning easier for the technologist and more comfortable for the patient.

### Streamlined tube head

The streamlined tube head and SID of 70 cm make positioning easier and provide more working space for interventional procedures. This large working space ensures that patients of all breast sizes and a wide variety of needles can be accommodated without additional add-ons.



Optimized face shield



FAST Paddle system



Natural positioning for patient

# Innovation in upright 2D and 3D breast biopsy\*

Our Affirm™ breast biopsy guidance system represents the next generation in upright breast biopsy. This system gives practices the ability to utilize tomosynthesis imaging for biopsy guidance, allowing for the localization and accurate targeting of lesions that can be difficult to detect with traditional imaging and biopsy techniques. The new Affirm 3D biopsy method has additional advantages over standard X-ray biopsy procedures, including faster targeting and fewer X-ray exposures, resulting in shorter patient procedure time and reduced patient dose.

With a quick and easy transition from mammography to upright biopsy, the Affirm system offers a cost-effective, space-saving and upgradeable system that enables practices to expand their range of service offerings.



Selenia® Dimensions® with Affirm 3D and Eviva® systems: Integrating robust, advanced imaging, lower dose and innovative, faster interventional capabilities for extraordinary patient care.



\*Additional purchase applies.



# A comprehensive solution

## Efficient and interactive diagnostic tools

Our SecurView® DX diagnostic workstation has been optimized to support the Selenia® Dimensions® system, with novel workflow tools to ensure accurate and efficient review of both 2D and breast tomosynthesis exams:

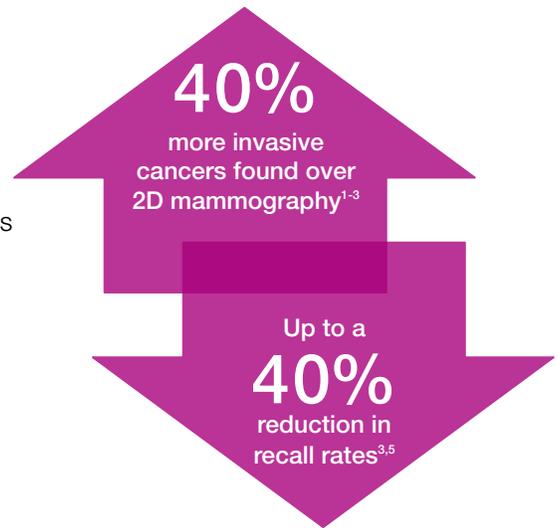
- Speed-adjustable cine loop.
- User-selectable slabbing mode.
- Co-registered 2D & 3D images.
- A full range of workflow solutions, customizable to your needs.



# Make a real difference in patient care

Join breast centers around the world that have chosen to offer their patients breakthrough breast tomosynthesis technology, and become a leader in breast cancer detection.

For more information on our family of breast health solutions, please visit [breasttomo.com](http://breasttomo.com).



**References:** 1. Skaane P, Bandos A, Gullien R, et al. "Comparison of Digital Mammography Alone and Digital Mammography Plus Tomosynthesis in a Population-based Screening Program." *Radiology*. 2013 Apr; 267(1):47-56. Epub 2013 Jan 7. 2. Ciatto S, Houssami N, Bernardi D, et al. "Integration of 3D Digital Mammography With Tomosynthesis for Population Breast-Cancer Screening (STORM): A Prospective Comparison Study" *The Lancet Oncology*. 2013 Jun;14(7):583-589. Epub 2013 Apr 25. 3. Rose S, Tidwell A, Bujnock L, et al. "Implementation of Breast Tomosynthesis in a Routine Screening Practice: An Observational Study." *American Journal of Roentgenology*. 2013 Jun; 200(6): 1401-1408. Epub 2013 May 22. 4. Zuley M, Bandos A, Ganott M, et al. "Digital Breast Tomosynthesis Versus Supplemental Diagnostic Mammographic Views for Evaluation of Noncalcified Breast Lesions." *Radiology*. 2013 Jan; 266(1):89-95. Epub 2012 Nov 9. 5. Haas B, Kalra V, Geisel J et al. "Comparison of Tomosynthesis Plus Digital Mammography and Digital Mammography Alone for Breast Cancer Screening." *Radiology*. 2013 July 30. [Epub ahead of print]. 6. FDA PMA submission P080003/S001. Based on the U.S. average dose of FFDM, S/F and CR as collected from medical physicists' dose measurements available at the time of MQSA inspections Jan – Sept 2012.

**Preserving Lives.** At Hologic, we deliver trailblazing technologies to keep you on the forefront of breast care. Our passion drives us in the relentless pursuit of innovative tools that set new paradigms for the early detection, accurate diagnosis, intervention and treatment of breast cancer — technologies to help you protect and preserve the lives of your patients. With you, we are on a mission to help women live longer, healthier lives.

Clinical Diagnostics Solutions

Skeletal Health Solutions

Women's Health Solutions

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