

SIEMENS



Mammomat Inspiration

Mammomat Inspiration Prime

True Breast Tomosynthesis option

www.siemens.com/inspiration



Answers for life.



“With its wide, 50° angle perspective, only Siemens tomosynthesis can generate images with superior depth resolution. To me, there’s no better choice.”¹

Nachiko Uchiyama, MD,
National Cancer Centre, Tokyo, Japan

Wide angle tomo, breakthrough innovations

Experience new perspectives in mammography: True Breast Tomosynthesis

Discover new diagnostic possibilities. True Breast Tomosynthesis has the widest angle of 50° providing superior depth resolution.

How tomosynthesis works

Tomosynthesis acquires multiple images of the breast while the X-ray tube moves through an arc above the detector. The projection images are then reconstructed into a 3D volume and displayed as slices. This enables the separation of tissue layers and improves the visibility of lesions as they are displayed without overlaying tissue.

Why True Breast Tomosynthesis?

The width of the angle and the number of projections determine the quality of the resulting 3D image. Mammomat Inspiration moves through 50° while taking 25 projections - the highest number of any system. This results in superior depth resolution and tissue layer separation.

HD Volume reconstruction

To achieve high-definition image quality with enhanced spatial and depth resolution, True Breast Tomosynthesis combines a full resolution detector readout, leveraging the 85 μm spatial resolution, with a mass enhancement algorithm designed to enhance the visibility of both fine calcifications and subtle mass lesions.

Image 1: More lesions are visible in 3D.

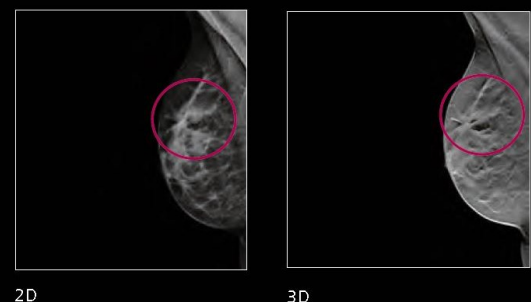


Image 2: Separation of the two spheres for superior depth resolution with a wider angle.

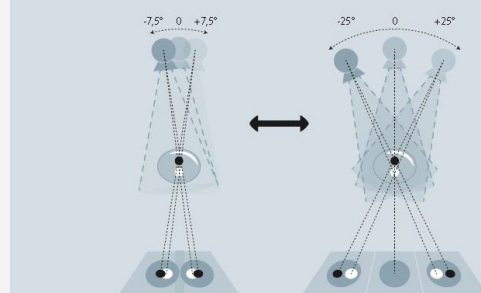
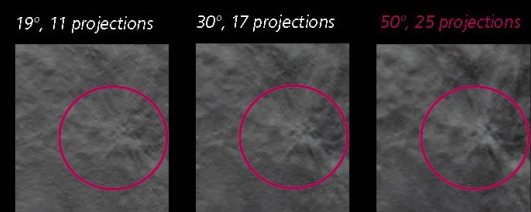


Image 3: Better depth and contrast resolution.



RMLO 3D Tomosynthesis; Invasive ductal carcinoma (IDC); Subtle architectural distortion not detected prospectively in 2D MLO and CC

¹ The statements by Siemens' customers described herein are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption) there can be no guarantee that other customers will achieve the same results.

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