

Why Siemens Healthineers?

At Siemens Healthineers, our purpose is to enable healthcare providers to increase value by empowering them on their journey toward expanding precision medicine, transforming care delivery, and improving patient experience, all made possible by digitalizing healthcare.

An estimated 5 million patients globally benefit every day from our innovative technologies and services in the areas of diagnostic and therapeutic imaging, laboratory diagnostics, and molecular medicine, as well as digital health and enterprise services.

We are a leading medical technology company with over 120 years of experience and 18,000 patents globally. Through the dedication of more than 50,000 colleagues in 75 countries, we will continue to innovate and shape the future of healthcare.



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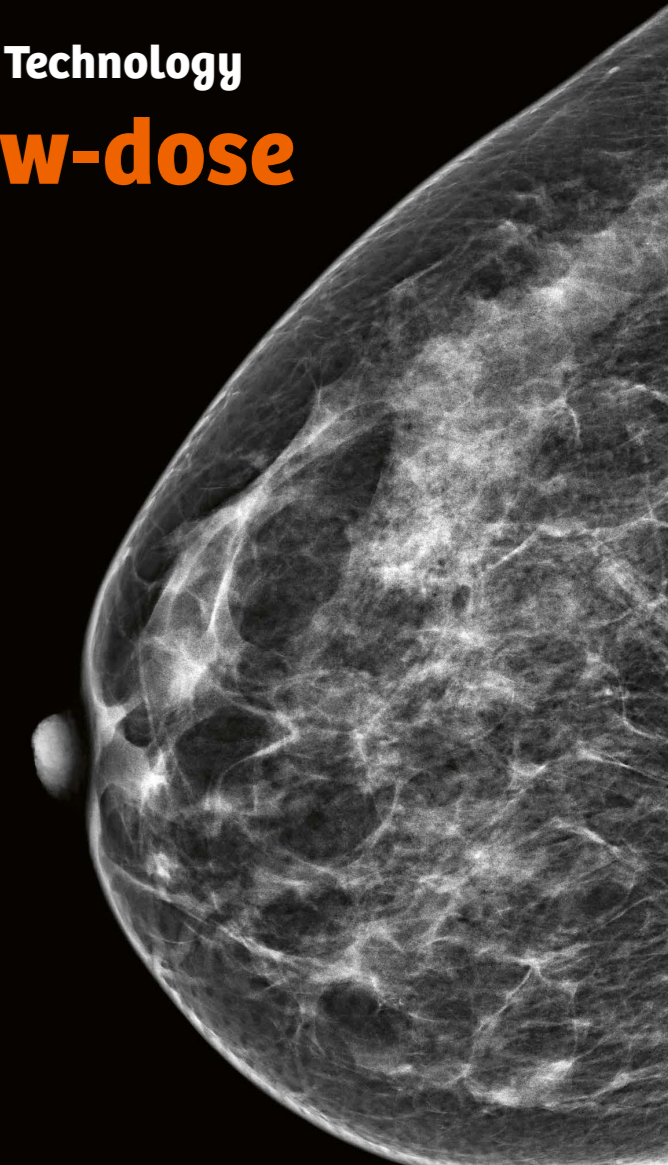
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The statements by Siemens Healthineers' customers described herein are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption)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

MAMMOMAT Inspiration with PRIME Technology The reference in low-dose mammography

[siemens-healthineers.com/inspiration](https://www.siemens-healthineers.com/inspiration)





Imagine a system that looks familiar, but is different

PRIME Technology on MAMMOMAT Inspiration.

As mammography screening entails the examination of thousands of healthy women, keeping dose as low as possible is extremely important. At the same time, high image quality is the key to detecting the smallest detail.

The continuous low-dose discussion challenged us to rethink and do what seemed impossible: develop a system that would be the new reference in low-dose mammography, without compromising on image quality – and it was through this that MAMMOMAT Inspiration with PRIME Technology was born.

You can become the institution of choice by providing reference-quality mammography for your patients with MAMMOMAT Inspiration and PRIME Technology.

Up to 30% less dose¹, uncompromised image quality
PRIME Technology allows dose to be reduced by up to 30%¹ without impairing image quality. Combining multiple dose-saving features, MAMMOMAT Inspiration is the reference for low dose.

Greater comfort, relaxed patients
The appealing system design, intelligent OpComp compression feature and calming MoodLight work together to provide a clear benchmark in patient comfort.

Easy-to-use, outstandingly quick
Single-Touch Positioning and one-click-to-image make MAMMOMAT Inspiration outstandingly quick and set the standard in ease of use.

50° Wide-Angle Tomosynthesis
Increase your diagnostic certainty with 50° Wide-Angle Tomosynthesis with the widest angle of 50°. Obtain highly defined tissue and lesion morphology in unprecedented detail and gain deeper insights in both 2D and 3D – leading to more accurate and earlier detection².

Discover the benefits of MAMMOMAT Inspiration and PRIME Technology.

¹ Compared to grid-based acquisition with MAMMOMAT Inspiration, depending on breast thickness.

² Compared to Tomosynthesis



Up to 30% less dose¹, uncompromised image quality

Discover how less becomes more: revolutionary PRIME Technology

Attract more women for screening by offering mammography with up to 30% lower dose¹ without compromising on image quality.

PRIME Technology defined

Progressive Reconstruction Intelligently Minimizing Exposure, or PRIME Technology for short, is the world's first software-based anti-scatter solution for mammography.

Behind the technology

Up to 30% less dose: Sliding back the mechanical grid means there is no longer a fixed object absorbing radiation between the breast and detector, so you can utilize 100% of the primary radiation – and achieve lower overall dose levels.

Uncompromised image quality: Progressive Reconstruction identifies scatter-causing structures and optimizes the image improving contrast and reducing scatter effects.

Time-tested Tungsten Tube

The Tungsten/Rhodium combination can reduce dose by up to 50% compared to a molybdenum/molybdenum combination, especially for dense breast tissue.

Personalized OpDose®

OpDose determines the exposure parameters and uses Automatic Exposure Control to acquire the best-possible image depending on breast density and thickness. OpDose works in every position and automatically excludes the pectoral muscle from its calculations.

Flexible OpView®

Enjoy sharper, easily adjustable images using refined image processing software. You can select the best fit for your clinical needs from a range of predefined image impressions and flavors.

Fast direct-to-digital aSe Detector

The direct-to-digital amorphous selenium (aSe) detector directly converts X-ray energy into an electric charge. Your advantage: higher Detective Quantum Efficiency (DQE²). Its fast read-out reduces the time required between exposures, making for optimized workflows and higher patient throughput.



"To give women exceptional care, I need exceptional technology. Women react extremely positively when I tell them that I can now save around 30% dose¹. It reassures them we take their screening seriously."

Detlev Uhlenbrock, MD, PhD MVZ
Prof. Dr. Uhlenbrock & Partners,
Dortmund, Germany



Greater comfort, relaxed patients

Put women at ease: features for a relaxing exam

Enhance your institution's reputation by providing a better mammography experience for patients.

Appealing design

Smooth shapes, non-intrusive lines and a color palette of pastel pink, lime or silver: the design offers visual comfort during the exam.

Calming MoodLight

Getting women to relax during mammograms can be as simple as changing the lighting. The unique MoodLight¹ panel allows you to select specific colors or a series of changing colors.

Individualized OpComp[®]

Instead of using a standard compression level, OpComp[®] only compresses as long as a woman's breast is soft and pliable. As soon as it has reached optimal compression level for the best image quality, it stops automatically. For increased comfort, more efficiency and, often, lower dose.



"The soft light emitted by the MoodLight makes a world of difference. It really helps me relax."

Josiane Wegmüller
Patient,
Switzerland



Easy-to-use, outstandingly quick

Work with ease and efficiency

Enable high patient throughput and reduce staff training requirements with time-saving features and the unique *syngo* user interface.

Seamless Isocentric Rotation

No matter which position is next, the center of the detector always stays at the same height, letting you switch to the next view at the touch of a button.

Multiple release options

Three X-Ray release options provide more flexibility. Choose between the control console button, the hand switch¹ or the foot switch¹, depending on what best fits your needs.

Ergonomic Acquisition Workstation

"Less is more" is the best way to describe the Acquisition Workstation (AWS). Benefit from the convenience of the *syngo* user interface and swiftly adjust the table's height to your needs.

Convenient Single-Touch Positioning

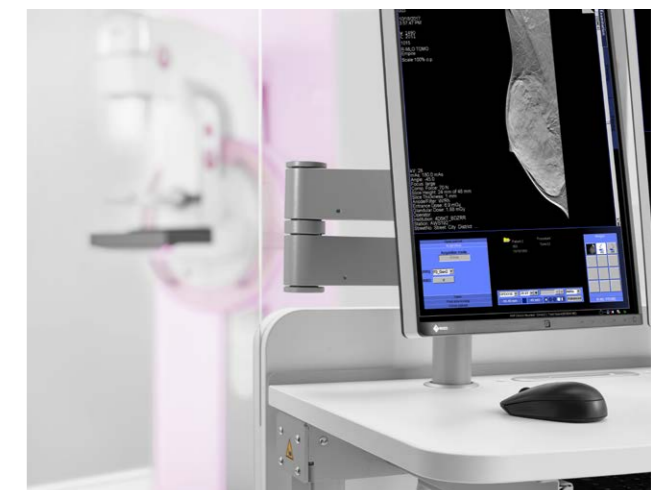
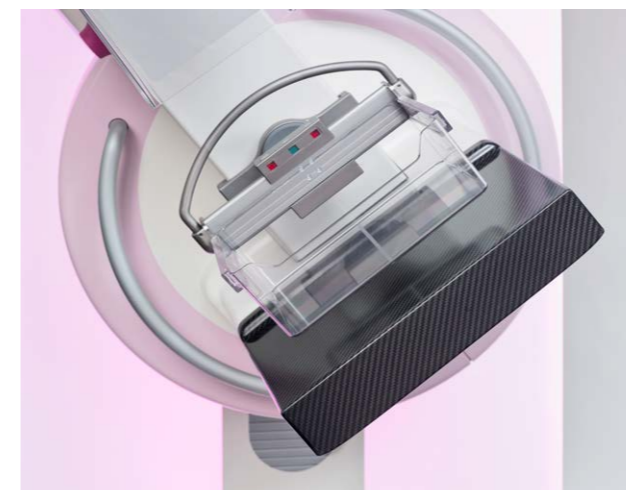
This feature moves the system from one position to the next in an instant. With only a single touch.

Efficient one-click-to-image

The scheduler opens automatically as soon as an exam is completed, allowing you to move seamlessly from one patient to the next – even in special cases such as magnification views and patients with implants. Clicking once opens the next exam and the system is ready for the first exposure.

Automated Quality Control

Our Automated Quality Control¹ is a smart quality assurance application based on the international Quality Control Manual. It automatically evaluates the results, generates a test report and stores it as a PDF file.





Easy-to-use, outstandingly quick

Operate seamlessly and confidently

Become more efficient and obtain greater diagnostic confidence with an automated workflow and multimodality reading on a single workplace.

Stereotactic biopsy

Clear-cut procedures and intuitive operations are the key to fast and accurate examinations. With this in mind, we designed a stereotactic biopsy solution that reduces the necessary workflow steps and guides the operator through the procedure.

Lightweight and flexible

Simply slide the lightweight unit onto the detector and the system automatically switches to biopsy mode. Get more flexibility with both vertical and lateral access and a wide range of compatible biopsy devices.

syngo.Breast Care

*syngo.Breast Care*¹ is the advanced multimodality solution for state-of-the-art mammography and Siemens Healthineers unique tomosynthesis reading. Marked by outstanding flexibility, it offers comprehensive tools, customizable layouts and individually configurable workflows for confident diagnosis and decision-making in both 2D and 3D.

As a stand-alone workstation or a multiple client server solution – *syngo.Breast Care* completely fulfills your need for high quality and efficient daily work. View and share the images easily wherever² you are – even on your mobile PC.



¹ *syngo.Breast Care* is not commercially available in all countries. Due to regulatory reasons its future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.

² Prerequisites include: Internet connection to clinical network, DICOM compliance, meeting of minimum hardware requirements, and adherence to local data security regulations



50° Wide-Angle Tomosynthesis

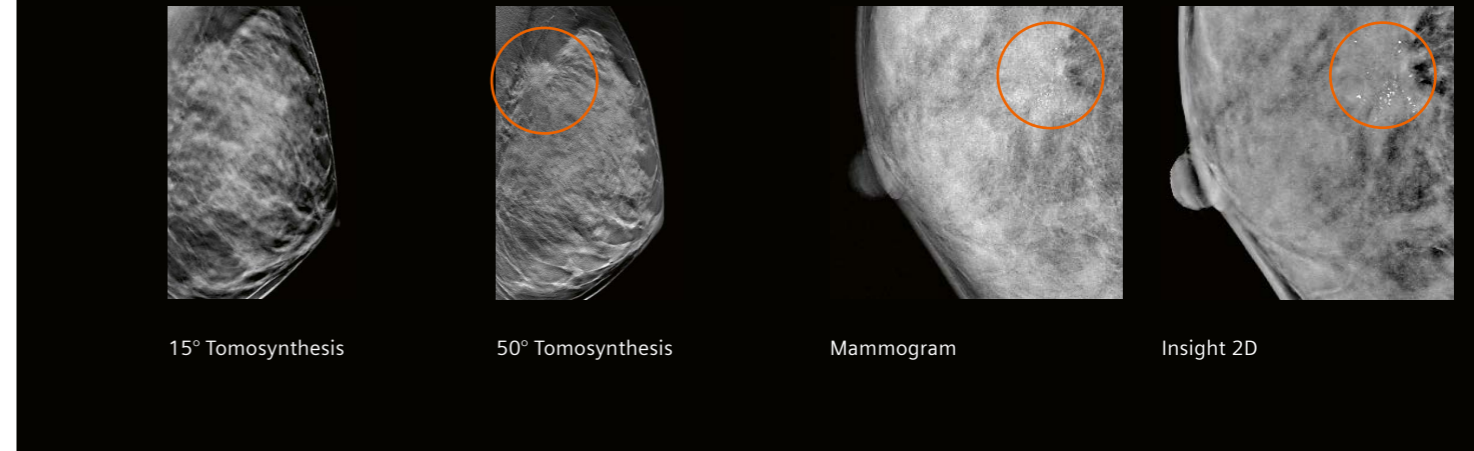
Define tissue and lesions in unprecedented detail: 50° Wide-Angle Tomosynthesis

Increase diagnostic certainty with highly defined tissue and lesion morphology in unprecedented detail and gain deeper insights in 2D and even 3D. Achieve more accurate and earlier detection with up to 43% increase in cancer detection rates¹.



“With its wide, 50° angle perspective, only Siemens Healthineers tomosynthesis can generate real 3D images. To me, there’s no better choice.”

Nachiko Uchiyama, MD
National Cancer Centre,
Tokyo, Japan



15° Tomosynthesis

50° Tomosynthesis

Mammogram

Insight 2D

Wide angle image acquisition

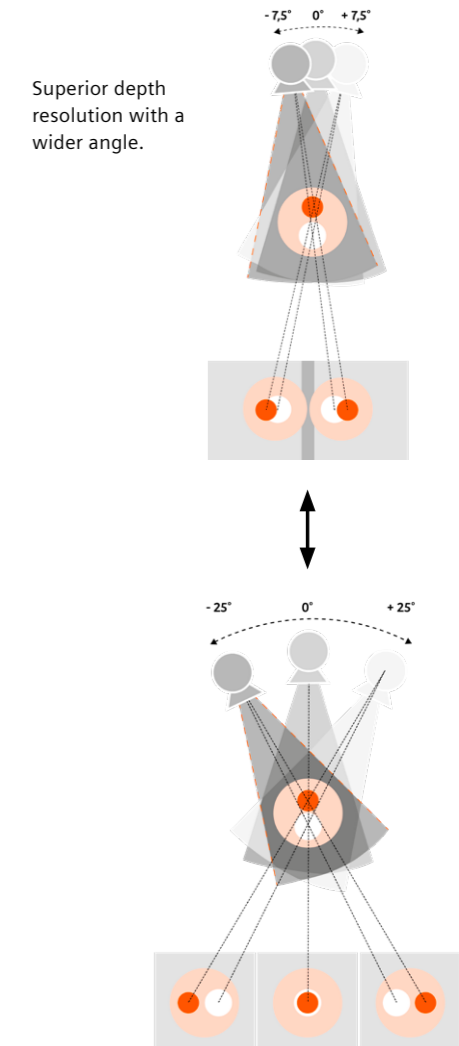
The widest tomo angle of 50° and 25 projections provide the superior depth resolution¹ and tissue layer separation required for 50° Wide-Angle Tomosynthesis and cannot be achieved with smaller angles. The state of the art detector is read out at full resolution, without the need for binning. Capturing every detail so you can trust in what you see.

50° wide-angle tomo

It provides the highest depth resolution on the market – which is key for tissue separation in 3D mammography. Compared to narrow-angle systems the depth resolution with our 50° Wide-Angle Tomosynthesis* is up to 3.5 times higher².

Insight – get more than just another view

Insight is the first synthetic visualization of tomosynthesis volumes in both 2D and 3D. Superior even to conventional mammography, Insight 2D can replace additional mammograms – resulting in dose savings for your patients. Insight 3D, our unique 3D display, gives your tomosynthesis reading new depth. As well as providing you with superior visualization of microcalcifications³, it can also be used to better communicate findings to peers and patients.



¹ Zackrisson S, Lång K, Rosso A, Johnson K, Dustler M, Föhrvik D et al. One-view breast tomosynthesis versus two-view mammography in the Malmö Breast Tomosynthesis Screening Trial (MBTST): a prospective, population-based, diagnostic accuracy study. *Lancet Oncol*, published: October 12, 2018. For invasive cancer.

² Maldera et al. (2016): Digital breast tomosynthesis: Dose and image quality assessment. *Physica Medica*, pp. 1-12.

³ Tani H et al. Assessing Radiologist Performance and Microcalcifications Visualization Using Combined 3D Rotating Mammogram (RM) and Digital Breast Tomosynthesis (DBT) LNCS Vol. 8539 pp 142-149 (2014)

MAMMOMAT Inspiration Prime

The reference in low-dose mammography

Calming MoodLight

An integrated LED panel with a broad range of colors to choose from emits a soothing light. For a more relaxing exam.

Personalized OpDose®

Provides the right dose for each woman individually, selecting the best anode/filter combination.

Convenient Single-Touch Positioning

Easy positioning with a single touch makes your workflow more efficient.

Individualized OpComp®

Compression stops automatically as soon as it reaches the right compression thickness to achieve the best image quality. For added comfort, more efficiency and, often, lower dose.

Revolutionary PRIME Technology

PRIME: Progressive Reconstruction Intelligently Minimizing Exposure allows you to use less dose without compromising image quality.

Flexible OpView

Selection of five so-called flavors for image impressions. Choose the one for your needs.

50° Wide-Angle Tomosynthesis

With the widest angle of 50° for highly defined tissue and lesion morphology in unprecedented detail and deeper insights in 2D and even 3D.

Insight

More than just another view. 50° Wide-Angle Tomosynthesis, visualized in 2D and 3D.

Biopsy

The system intuitively guides you through the entire procedure. Efficient and reliable for optimum diagnostic confidence.



Service and exchange

Increasing value by partnering throughout the entire equipment lifecycle

Equipment Maintenance & Monitoring

Reliably servicing your MAMMOMAT Inspiration allows you to identify deviations from current norms to maximize equipment availability.

Education Management

Personalized education and training improves your staff's expertise as well as your equipment efficiency.

Fleet Management

A transparent overview of your fleet allows you to manage the performance and maintenance of your Siemens Healthineers equipment, 24/7.

Accessory Solutions

Products from our partner companies complement your use of our equipment in your daily workflow.

Performance Management

An intelligible overview of your radiography performance data helps you make prompt and well-informed decisions.

Asset Management & Planning

Access to innovative medical technology and equipment throughout the entire contract life-time allows you to maximize focus on patient care.

Business Modelling & Financing

Customized business and financial models address your budgetary and enterprise needs enabling you to remain more competitive.

Departmental Layout Optimization

3D-Visualization and digital twin analysis create more efficient workflows and a more enjoyable working environment.

Continuously adding value and caring for your equipment, your staff, your fleet, your workflows, your department, and your entire institution.