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

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Mammomat Inspiration with PRIME Technology:
The reference in low-dose mammography
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 dose, uncompromised image quality
PRIME Technology allows dose to be reduced by up to 30% 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.

HD Breast Tomo, trust in what you see
Increase your diagnostic certainty with High Definition Breast Tomosynthesis, with the widest angle of 50° and unique EMPIRE Technology. 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 detection.

Discover the benefits of Mammomat Inspiration and PRIME Technology.

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1 Compared to grid-based acquisition with Mammomat Inspiration, depending on breast thickness.
2 High Definition Breast Tomosynthesis, EMPIRE Technology, Insight 2D, and Insight 3D are currently under development and not commercially available in all countries. Due to regulatory reasons its future availability cannot be guaranteed. Please contact your local Siemens organization for further details.
3 Compared to True Breast Tomosynthesis
67 mAs without PRIME
45 mAs with PRIME

up to 30% less dose
Up to 30% less dose\(^1\), uncompromised image quality

Discover how less becomes more: revolutionary PRIME Technology.

Attract more women for screening by offering mammography with up to 30% lower dose\(^1\) 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\(^\text{®}\)
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\(^\text{®}\)
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 (DQE\(^2\)). 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% dose\(^1\). It reassures them we take their screening seriously.\(^3\)

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

\(^1\) Compared to grid-based acquisition with Mammomat Inspiration, depending on breast thickness.
\(^2\) DQE measures the efficiency of a detector.
\(^3\) 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.
The soft light emitted by the MoodLight makes a world of difference. It really helps me relax.

Josiane Wegmüller
Patient, Switzerland
Put women at ease: features for a relaxing exam.

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 MoodLight 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.

Greater comfort, relaxed patients

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

The statements by Siemens’ patients described herein are based on results that were achieved in the patient’s unique situation. Since there is no “typical” patient there can be no guarantee that other patients have the same perception.

1 Option
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 switch\(^1\) or the foot switch\(^1\), 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.

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.

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 Control\(^1\) 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.

\(^1\) Option
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.

Operate seamlessly and confidently

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

syngo®.Breast Care

syngo.Breast Care is the advanced multimodality solution for state-of-the-art mammography and Siemens 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 wherever you are – even on your mobile PC.

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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 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
With its wide, 50° angle perspective, only Siemens tomosynthesis can generate real 3D images. To me, there’s no better choice.¹

Nachiko Uchiyama, MD
National Cancer Centre, Tokyo, Japan

¹The 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.
Define tissue and lesions in unprecedented detail: High Definition Breast 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 rates.

Wide angle image acquisition
The widest tomo angle of 50° and 25 projections provide the superior depth resolution and tissue layer separation required for High Definition Breast 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.

EMPIRE Technology – see with unprecedented clarity
Enhanced Multiple Parameter Iterative Reconstruction – in short, EMPIRE Technology is a unique combination of iterative and machine learning algorithms that reconstruct images with unparalleled clarity in both contrast and detail. See microcalcifications clearly. Evaluate their morphology precisely. Make confident diagnostic decisions quickly and efficiently.

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 microcalcifications, it can also be used to better communicate findings to peers and patients.

Convenient Single-Touch Positioning
Easy positioning with a single touch makes your workflow more efficient.

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.

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

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.

Stereotactic Biopsy
The system intuitively guides you through the entire procedure. Efficient and reliable for optimum diagnostic confidence.
Mammomat Inspiration Prime

The reference in low-dose mammography

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

High Definition Breast 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.

EMPIRE Technology
Unique algorithms enable superior image quality in both contrast and detail.

Insight
More than just another view. High Definition Breast Tomosynthesis, visualized in 2D and 3D.
Facts

3,000,000,000 women live on the planet.

650,000,000 are eligible for breast cancer screening programs.

10–20 times is the number of times a woman is screened in her lifetime.

Up to 30% is the reduction in dose achievable using PRIME Technology.

Because every single woman counts.
Mammomat Inspiration with PRIME Technology ignited a revolution in mammography and optimized screenings for everyone involved.

Revolutionary PRIME Technology, personalized OpDose®, flexible OpView, and additional CARE technologies enable up to a 30% lower dose and uncompromised image quality¹. Calming MoodLight and individualized OpComp provide greater comfort and relaxation for your patients. Features that are easy to use and outstandingly fast – such as Single-Touch Positioning and one-click-to-image – help you save time and increase your efficiency. With its unique 50° angle, EMPIRE Technology, and Insight, High Definition Breast Tomosynthesis helps increase your diagnostic confidence – while seamless Stereotactic Biopsy and the client server-based reading workstation syngo.Breast Care let you boost efficiency with an automated workflow.

Service tailored for you
The comprehensive range of services Siemens offers can be tailored to your needs. From preventive maintenance to technical phone support and system updates, our Performance Plans are proven service packages that include proactive measures as well as a rapid on-site technical response – designed to help improve reliability while providing predictable costs, lower risk and greater efficiency.

Closer by design
Closer to technology and closer to you – Siemens Healthcare Customer Services delivers extensive experience combined with innovative solutions to help protect your investment, optimize system utilization and improve your workflow for sustainable healthcare. Siemens Remote Services monitors your system, allowing action before problems arise. Comprehensive applications enable your staff to receive excellent training – and thus deliver excellent results.

A safe investment
Mammomat Inspiration suits both your clinical and budgetary needs today and tomorrow. Dose-saving PRIME Technology reassures women that you are providing low-dose mammography, and options such as stereotactic biopsy or True Breast Tomosynthesis can be upgraded as and when you need them. Giving you confidence in your diagnosis and in your investment.

¹ Compared to grid-based acquisition with Mammomat Inspiration, depending on breast thickness.
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Siemens reserves the right to modify the design, packaging, specifications and options described herein without prior notice.

Please contact your local Siemens sales representative for the most current information.

In the interest of complying with legal requirements concerning the environmental compatibility of our products (protection of natural resources and waste conservation), we recycle certain components.

Using the same extensive quality assurance measures as for factory-new components, we guarantee the quality of these recycled components.

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