MAMMOMAT Inspiration
MAMMOMAT Inspiration PRIME Edition
The reference in low-dose mammography.

www.usa.siemens.com/healthcare
One in eight women in the U.S. will be diagnosed with breast cancer in her lifetime. Thankfully screening saves countless lives every year. But especially for healthy women, low dose is of utmost importance. At the same time, image quality is key for detecting the smallest detail. We at Siemens rose to the challenge of combining both, seeking to improve—but ending up revolutionizing.

Siemens proudly introduces the new MAMMOMAT Inspiration and the new MAMMOMAT Inspiration PRIME Edition. On the MAMMOMAT Inspiration PRIME Edition the unique PRIME Technology¹ allows for up to 30% less dose and uncompromised image quality³. The new, faster direct-to-digital aSe detector and multiple dose-saving algorithms individually calculate the exposure in both systems. Meanwhile, appealing design, calming MoodLight² and intelligent compression work together for greater comfort and relaxed patients.

Helpful features like Single-Touch Positioning make both MAMMOMAT Inspirations easy-to-use and outstandingly quick. Innovations like Stereotactic Biopsy² ensure a more seamless, straight-forward procedure while syngo Breast Care² gives you the full picture in mammography reading.

Now is your chance to join the revolution. Read on to discover the benefits of MAMMOMAT Inspiration and MAMMOMAT Inspiration PRIME Edition:

• Up to 30% less dose, uncompromised image quality
• Greater comfort, relaxed patients
• Easy-to-use, outstandingly quick

Imagine a machine that looks familiar, but is different. Introducing the new MAMMOMAT Inspiration with PRIME Technology.
"We wanted to improve, but ended up revolutionizing.

From the beginning, our target was to develop a dose-lowering technology. But reducing it by up to 30% with the exact same image quality? PRIME Technology marks a new era in breast care imaging! Which proves the difference between improvement and revolution lies in the details.*

Wilhelm Hanke, Research & Development, Siemens X-ray Products, Erlangen, Germany

*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.
Up to 30% less dose, uncompromised image quality
Greater comfort, relaxed patients
Easy-to-use, outstandingly fast imaging, breakthrough innovations

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

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

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

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

**Personalized OpDose®**
Ensures the right dose for each woman individually, selecting the best anode/filter combination.

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

**Individualized OpComp®**
Compression stops automatically as soon as it reaches best image quality. For added comfort, more efficiency and, often, lower dose.

* Available for MAMMOMAT Inspiration PRIME Edition only.
New PRIME Technology* starts a revolution in mammography: it minimizes dose by up to 30% and still delivers the outstanding image quality you rely on for your diagnosis.

PRIME Technology defined
Progressive Reconstruction Intelligently Minimizing Exposure, or PRIME Technology, 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 benefit from 100% of the primary radiation and use less dose.

Uncompromised image quality: To compensate for reduced contrast caused by the scatter-effect, Progressive Reconstruction identifies scatter-causing structures and optimizes the image.

Up to 30% less dose, uncompromised image quality
Discover how less becomes more: revolutionary PRIME Technology.

**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.

“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. It reassures them we take their screening seriously.”**

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

*PRIME Technology is available on MAMMOMAT Inspiration PRIME Edition only.

---

Without PRIME (68 mAs) With PRIME (45 mAs) ~30%

Grid slides back
Progressive Reconstruction occurs
Uncompromised image quality results

Uncompromised image quality results

Grid in
Grid out

Dose reduces by up to 30%

---

"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. It reassures them we take their screening seriously."**

Detlev Uhlenbrock, MD, PhD MVZ
Prof. Dr. Uhlenbrock & Partners, Dortmund, Germany
Personalized OpDose®
Optimally sets exposure parameters for each breast and ensures the right dose for each dedicated object. It selects the best anode/filter combination depending on breast thickness, density and institution specific definition, such as Mo/Mo, Mo/Rh, or W/Rh. Five different dose levels further enhance optimal exposure.

Adaptive AEC algorithm
To optimize exposure parameters for each individual breast size and composition, the Automatic Exposure Control (AEC) determines the dose based on the contrast needed for the image. Enhancements allow it to work in every scanning position and view, such as CC and MLO, and to automatically eliminate the pectoral muscle as a reference.

Up to 30% less dose, uncompromised image quality
Optimize the dose further with renowned technologies.

The As Low as Reasonably Achievable (ALARA) principle is impetus for our role as an innovation leader. That’s why we at Siemens reduce women’s exposure during screenings with CARE technologies. Many of which are refined and enhanced.

Time-tested Tungsten Tube
Over a decade ago, we at Siemens invented the Tungsten tube. Compared to film based systems, it can save up to 50% dose by using the Tungsten/Rhodium combination. And it’s especially good at capturing dense breast tissue.
With improved and reliable ways to view breast tissue, MAMMOMAT Inspiration and MAMMOMAT Inspiration PRIME Edition enable you to see lesions at a very early stage.

Flexible OpView
Enjoy sharper, easily adjustable images with a newly-refined image processing software. With a range of predefined image impressions, you can select the best for your clinical needs. Also choose from five different so-called flavors, including Contrast Enhancement, Edge Enhancement and more.

Fast direct-to-digital aSe Detector
Making it easier to detect small and low contrast objects, the direct-to-digital amorphous selenium (aSe) detector directly converts X-ray energy into an electric charge. Your advantage: higher Detective Quantum Efficiency (DQE). Its fast speed also reduces time between exposures for optimized workflow and patient throughput.

"The image quality is outstanding! Especially for patients with dense breasts and implants."*
Connie Rogers, (M), (CT), (K)
Gunnison Valley, Health Gunnison, CO, USA

1 DQE measures the efficiency of the detection process of an image detector given by squared ration of the output signal-to-noise ratio to the input signal-to-noise ratio.

* 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.
Greater comfort, relaxed patients

Put women at ease: features for a relaxing exam.

One-of-a-kind features on both MAMMOMAT Inspiration systems soothe and calm women during the entire mammography procedure. A win-win situation resulting in shorter screenings and better image quality.

Appealing design
Smooth shapes, non-intrusive lines, a color palette of pastel pink, lime and silver throughout, even on the operating buttons: the design offers visual comfort during the exam.

Calming MoodLight
Getting women to relax—your goal during mammograms—might be as simple as changing the lighting. The unique MoodLight LED panel lets you select between changing colors and a specific one of your choice.

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

“You might not expect soft, multi-colored lighting to impact a patient’s level of comfort while her breast is being compressed. But the calming MoodLight has prompted a lot of positive feedback from our patients.”
Barbara Marshall, RT, Director of Battlefield Imaging, Ringgold, GA, USA

*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.
Work with ease and efficiency: designed for a seamless workflow.

Time-consuming tasks become quick and simple. For more time to focus on women and for easy transitions from one screening to the next.

Seamless Isocentric Rotation
No matter which position is next, the center of the detector always stays at the same height, letting you transfer to the next exam just by pushing a button.

Convenient Single-Touch Positioning
Moves the tube head from cranio-caudal to mediolateral-oblique in an instant. With only a single touch.

Multiple release options
Three varying options for X-ray release give you efficiency and flexibility during screenings. Choose between the standard control box, the hand switch*, or the foot switch*, depending on what best fits your needs.

Ergonomic Acquisition Workstation
“Less is more” best describes the new Acquisition Workstation (AWS). Enjoy the comfort of working on one central console and swiftly adjust the table’s height to your needs.

Efficient one-click-to-image
Automatically opens the scheduler when the exam is completed, allowing you to work seamlessly. Clicking once moves you to your next exam where the user interface is already ready for the first exposure.

Instant image preview
A preview image appears just a few seconds after the X-ray is taken, allowing you to quickly evaluate the quality of the positioning and then proceed with the next exam. A true timesaver compounded over the course of a day.

Easy-to-use, outstandingly quick

Variable compression plates
A variety of compression plates help achieve excellent image quality for each exam. Simply detach them for easy cleaning.

Instant image preview

Time-consuming tasks become quick and simple. For more time to focus on women and for easy transitions from one screening to the next.

Seamless Isocentric Rotation
No matter which position is next, the center of the detector always stays at the same height, letting you transfer to the next exam just by pushing a button.

Convenient Single-Touch Positioning
Moves the tube head from cranio-caudal to mediolateral-oblique in an instant. With only a single touch.

Multiple release options
Three varying options for X-ray release give you efficiency and flexibility during screenings. Choose between the standard control box, the hand switch*, or the foot switch*, depending on what best fits your needs.

Ergonomic Acquisition Workstation
“Less is more” best describes the new Acquisition Workstation (AWS). Enjoy the comfort of working on one central console and swiftly adjust the table’s height to your needs.

Efficient one-click-to-image
Automatically opens the scheduler when the exam is completed, allowing you to work seamlessly. Clicking once moves you to your next exam where the user interface is already ready for the first exposure.

Instant image preview
A preview image appears just a few seconds after the X-ray is taken, allowing you to quickly evaluate the quality of the positioning and then proceed with the next exam. A true timesaver compounded over the course of a day.

Easy-to-use, outstandingly quick

Variable compression plates
A variety of compression plates help achieve excellent image quality for each exam. Simply detach them for easy cleaning.
Operate seamlessly and confidently with integrated Stereotactic Biopsy.

Clear-cut procedures and intuitive operation are key to fast but highly accurate examinations. With this in mind, we designed a Stereotactic Biopsy solution that consistently reduces the necessary work steps and guides the operator intuitively through the entire procedure. The results are rather impressive: both MAMMOMAT Inspiration help speed up the biopsy procedure considerably without compromising on diagnostic confidence.

Biopsy-enhancing features:
- Bring better usability and improved workflow thanks to easy-to-use control box holder and direct reprocessing of images during the procedure. Get more flexibility with Easy Load: the gantry can be moved to either side for easier access to the woman being screened. Additionally, up to 25 targets—including the coordinates—are sent directly to the biopsy device and PACS system. The already prepared system offers a preset biopsy procedure, so it’s just click and go.
- Fully automated with just one click.
- For vertical and lateral access to lesions.
- All information available on a single monitor.
- With a large variety of needle types, including vacuum core, core, fine, and localization needles from various vendors.
- Great performance from beginning to end of the procedure, including specimen and a control mammogram.
Get the full picture in mammography reading with syngo.Breast Care.

syngo.Breast Care is the client-server application for state-of-the-art mammography reading—marked by outstanding flexibility. Shape your workflow according to your personal preferences. Compare prior and follow-up exams. Set your layouts, sizes, and tools. And include images from other modalities you need, such as ultrasound and MRI—wherever you are, even with simultaneous users.

In short, syngo Breast Care completely fulfills your need for high quality and efficient daily work—anywhere.¹

¹ prerequisites include: Internet connection to clinical network, DICOM compliance, meeting of minimum hardware requirements, and adherence to local data security regulations.

Invest in tomorrow’s technology today.

Two outstanding all-in-one mammography systems, MAMMOMAT Inspiration and MAMMOMAT Inspiration PRIME Edition, represent an excellent investment—for today and for tomorrow. Dose-saving revolutionary PRIME Technology reassures healthy women about exposure and gives radiologists the images necessary for diagnosis. Easy upgrades such as Stereotactic Biopsy help ensure that your institution can detect with utmost confidence.

Closer by design

Service tailored for you

Helping you prevent unscheduled downtime and improve workflow, Siemens comprehensive service options can be tailored to your precise requirements. From preventive maintenance to technical phone support and system updates, our Performance Plans are proven service packages that cover proactive services and fast technical on-site response designed to help improve reliability, while ensuring predictable costs, lower risk and greater efficiency.

The problem’s solved. Before you know it!

An efficient and comprehensive infrastructure offering device-related remote services, with Siemens Remote Services your system is monitored for parameter deviations so that remedial action can be taken proactively before problems arise. Plus, remote diagnosis allows defective parts to be identified and ordered, avoiding downtime and keeping repair times to a minimum.

“With its ability to be upgraded, MAMMOMAT Inspiration protects my investments and ensures state-of-the-art functionality. This translates into cost efficiency and helps me to achieve my strategic goals.”

Ilse Vejborg, MD
Head of Department of Radiology, University Hospital of Copenhagen
Copenhagen, Denmark

² 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.
Join the revolution: because detail matters.

MAMMOMAT Inspiration and MAMMOMAT Inspiration PRIME Edition ignited the revolution in mammography by optimizing every aspect—making screening better for everyone involved. Revolutionary PRIME Technology, personalized OpDose®, flexible OpView and additional CARE technologies enable up to 30% less dose and uncompromised image quality. Calming MoodLight and individualized OpComp create greater comfort and relaxed patients. With features that are easy-to-use and outstandingly quick, such as Single-Touch Positioning and one-click-to-image, you save time and increase efficiency. Seamless Stereotactic Biopsy, and the client-server based reading workstation syngo.Breast Care give you true breakthrough innovations for greater diagnostic confidence.

Bringing these components together solidifies our position as leaders in our field: at Siemens we are the reference in low-dose mammography. With every feature playing an essential role, we create a sum that is much more valuable than its parts. Which proves that in mammography, detail matters.
On account of certain regional limitations of sales rights and service availability, we cannot guarantee that all products included in this brochure are available through the Siemens sales organization worldwide. Availability and packaging may vary by country and is subject to change without prior notice. Some/All of the features and products described herein may not be available in the United States.

The information in this document contains general technical descriptions of specifications and options as well as standard and optional features which do not always have to be present in individual cases.

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.

Note: Any technical data contained in this document may vary within defined tolerances. Original images always lose a certain amount of detail when reproduced.

Order No. A918CP-XP-131700-P1-4A00
Printed in USA 07-2013 | All rights reserved © 2013 Siemens Medical Solutions USA, Inc.