



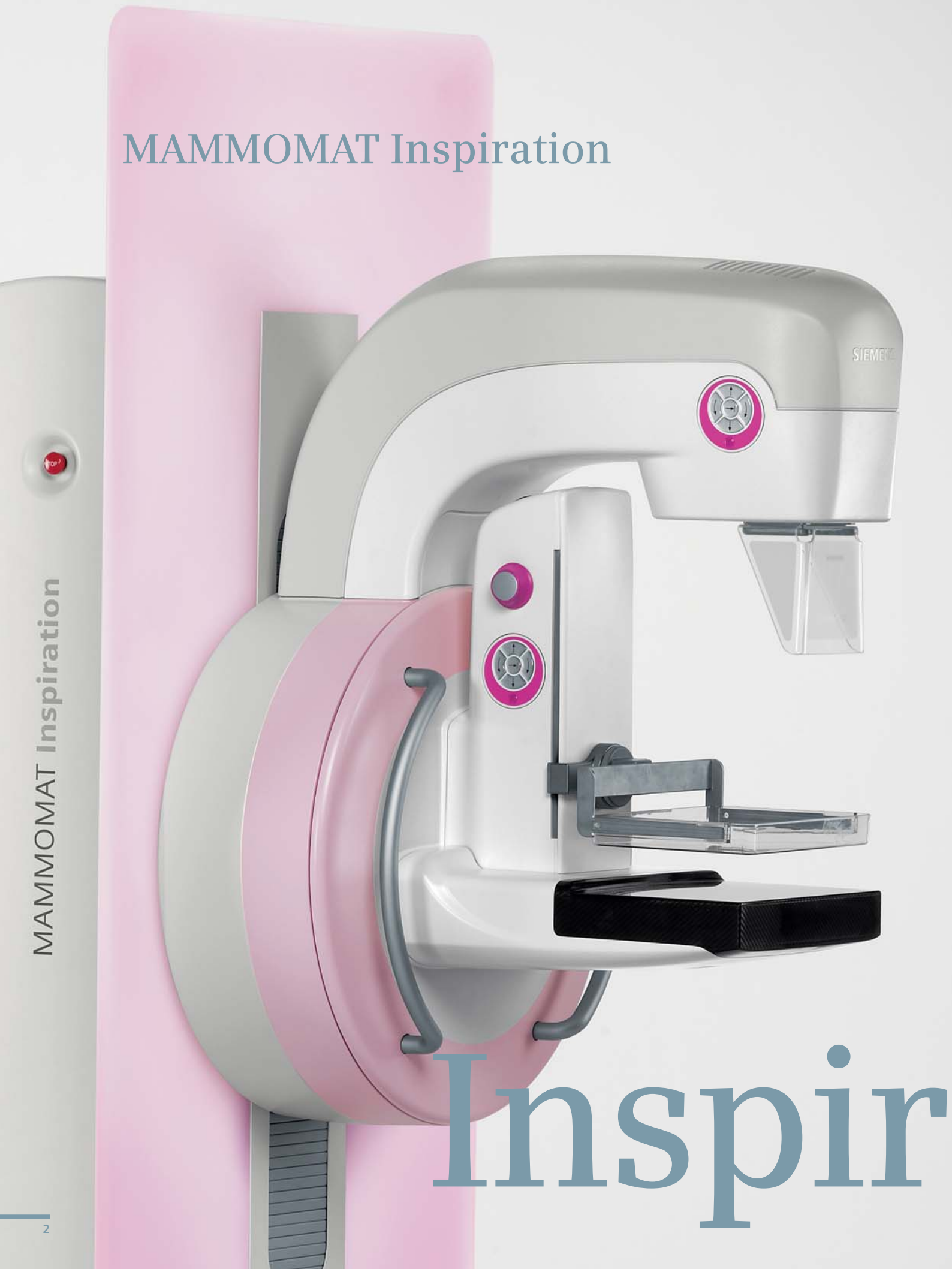
Inspired by you

MAMMOMAT Inspiration

Answers for life.

SIEMENS

MAMMOMAT Inspiration



MAMMOMAT Inspiration

Inspir

Siemens understands the demands you face as you balance providing the best patient care with meeting competitive business demands. For this reason, our innovative healthcare solutions are designed to support you in achieving your goals without compromising patient comfort.

Therefore, during the research and development of Siemens' new system for digital mammography, MAMMOMAT Inspiration, we emphasized continuous customer involvement. Your personal requirements as well as the wishes of your staff and your patients were considered during the whole process. The result is a mammography unit that improves your workflow and is well suited for the needs of each patient.

In addition to individualized dose and compression, MAMMOMAT Inspiration features the special MoodLight™ to improve your patient's comfort.



You and your staff require time-saving ease-of-use functionality that improves workflow. One of the unique features is the one-click-to-image function of MAMMOMAT Inspiration.



For administrators, profitability is essential. MAMMOMAT Inspiration can turn faster workflow into high patient throughput and thus cost efficiency.



ed by you



Comfort

“When I have a mammogram
I want to have a feeling of
comfort and care.”

This is exactly what Siemens
had in mind when developing
MAMMOMAT Inspiration. With
its unique, appealing design,
the system is ideally suited for
any screening environment.

& Care

MAMMOMAT Inspiration

A more inviting exam for the patient



Attractive design

MAMMOMAT Inspiration is designed with smooth round shapes and clear lines, emphasized by the soothing cover colors of pastel pink, lime, and silver. These colors are carried into the design of the operating buttons and underline the individual style of MAMMOMAT Inspiration.

MoodLight

The most significant design element is the unique LED light panel providing a more comfortable screening environment. MAMMOMAT Inspiration's MoodLight* can easily be set according to your personal preference: You may choose a setting that changes the color of the light dynamically throughout the day, or you may choose just one color that best matches your environment.

*Option

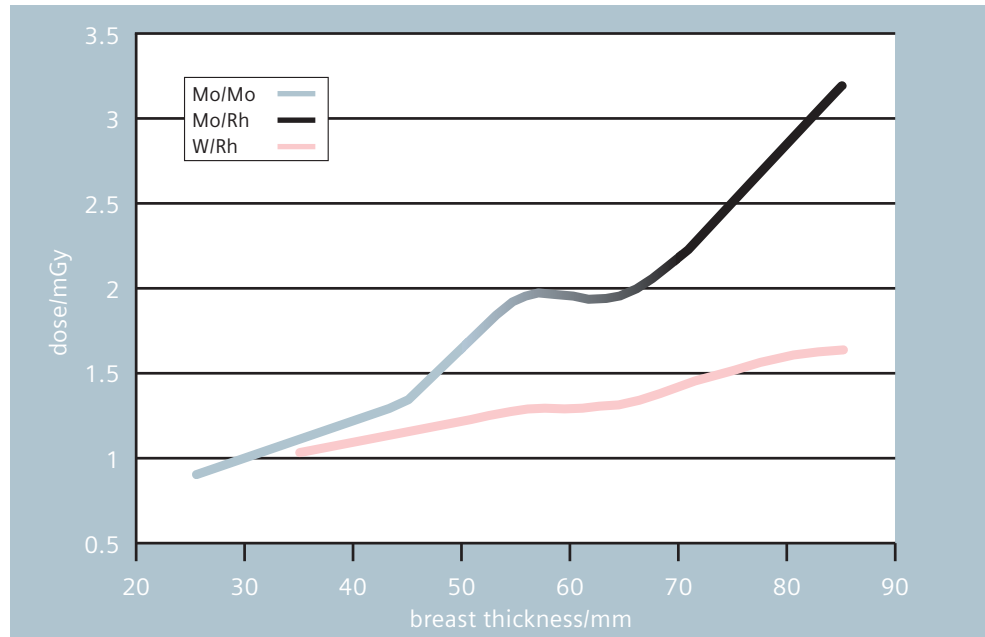


Intelligent dose and compression

Two of the most important advantages to the MAMMOMAT Inspiration lie in its ability to produce excellent image quality and individualized dose. To optimally match the breast density and thickness of your patient, it offers three anode/filter combinations: Mo/Mo, Mo/Rh and W/Rh. Opdose® will automatically select the best anode/filter combination for the individual breast characteristics. Opdose is designed to minimize a patient's radiation dose and exposure time.

The Siemens' intelligent Opcomp® function applies compression until the breast is no longer soft and pliable. The compression paddle will stop at the point of optimal compression.

The material composition of the paddles provides a warm and smooth feeling during the exam.



Siemens' Tungsten/Rhodium (W/Rh) technology reduces dose significantly when compared to conventional Molybdenum exposure. Especially for large breasts, a dose reduction can be achieved. Equivalence of image quality has been demonstrated by CNR (Contrast-to-Noise-Ratio) evaluation of breasts imaged with both X-ray spectra.

A close-up photograph of a Siemens washing machine. The top part of the door is white with the 'SIEMENS' logo embossed in a silver color. Below the door is a grey control panel with two small silver buttons. A red emergency release handle is visible on the side of the door. The background is a plain, light pink wall.

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“I need results quickly and clearly. A simple system would make my life much easier.”

With its automation and integration in screening, MAMMOMAT Inspiration reduces the number of steps required to produce exam results. This increases efficiency and improves workflow for both you and your staff.

Ease & Exo



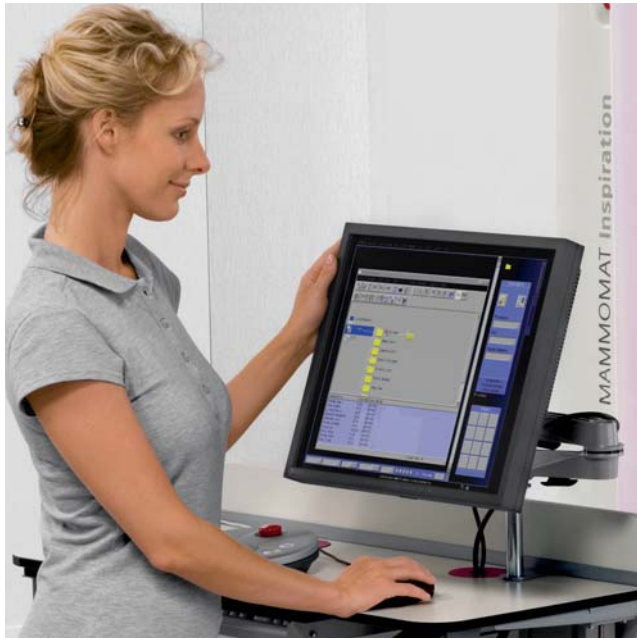


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MAMMOMAT Inspiration

Efficient workflow for the technologist



One-click-to-image

MAMMOMAT Inspiration streamlines your workflow. After one exam is finalized, the system automatically opens the patient scheduler. Selecting the next patient is the only mouse click needed. The user interface is already set for the whole exam. A second click allows you to close the study.

Single-touch positioning

Another convenient feature is provided by our single-touch rotation. With one touch, the tube head goes from cranio-caudal to mediolateral-oblique in an instant. While independent and accurate system movements take less attention, you have more time for the patient.

Small and space-saving workstation

Less is more. This is how the new Acquisition Workstation (AWS) is best described. The operator interface of the *syngo*®-based AWS includes the generator console. This reduction in equipment makes it possible to introduce a height adjustable table – a workplace designed to match the technologist's needs.



Three X-ray release options

Serial examinations are typical for a screening environment. Therefore, a versatile working environment is very important. MAMMOMAT Inspiration offers three different options for X-ray release. Your staff can either use the standard control box, the optionally available hand switch, or a new dedicated foot switch. This operational flexibility enables maximum efficiency in examination rooms.



Immediate image display

The MAMMOMAT Inspiration detector makes it possible – very little time between exposures. A few seconds after X-ray exposure, a preview image enables you to quickly assess the quality of positioning and to proceed with the next exam. Such time reduction encourages continuous workflow throughout the entire day.

Simplified maintenance and service

Cleaning compression paddles must be simple and convenient. That's why MAMMOMAT Inspiration's plastic paddles can be easily detached from the metal holders and can be cleaned separately.

Medical devices require servicing on a regular basis. That takes valuable time. Therefore, Siemens has reduced the calibration rate to once a quarter.



Isocentric rotation

No matter which position the technologist is targeting next, the center of the detector always stays at the same height, thanks to the isocentric rotation. This ensures a transfer to the next exam by true single-touch.

MAMMOMAT Inspiration

Excellent image quality for the physician



In a clinical environment, achieving high-end image quality while maintaining low dose is a priority. Certain and confident diagnoses are essential for your everyday work and for all following treatment measures. You need to acquire images with the finest diagnostic detail within seconds. This is exactly what we keep in mind while developing our products.

Direct-to-digital aSe detector

In a screening environment, the ability to detect small and low contrast objects is mandatory. This is why MAMMOMAT Inspiration provides an amorphous selenium (aSe) detector – directly converting X-ray energy into an electric charge. Compared to aSi/CsI and CCD technologies, the x-ray attenuation of aSe is higher in the low energy range used in mammography, and at the same time the Detective Quantum Efficiency (DQE*) is higher to make better use of the radiation.

Adaptive AEC

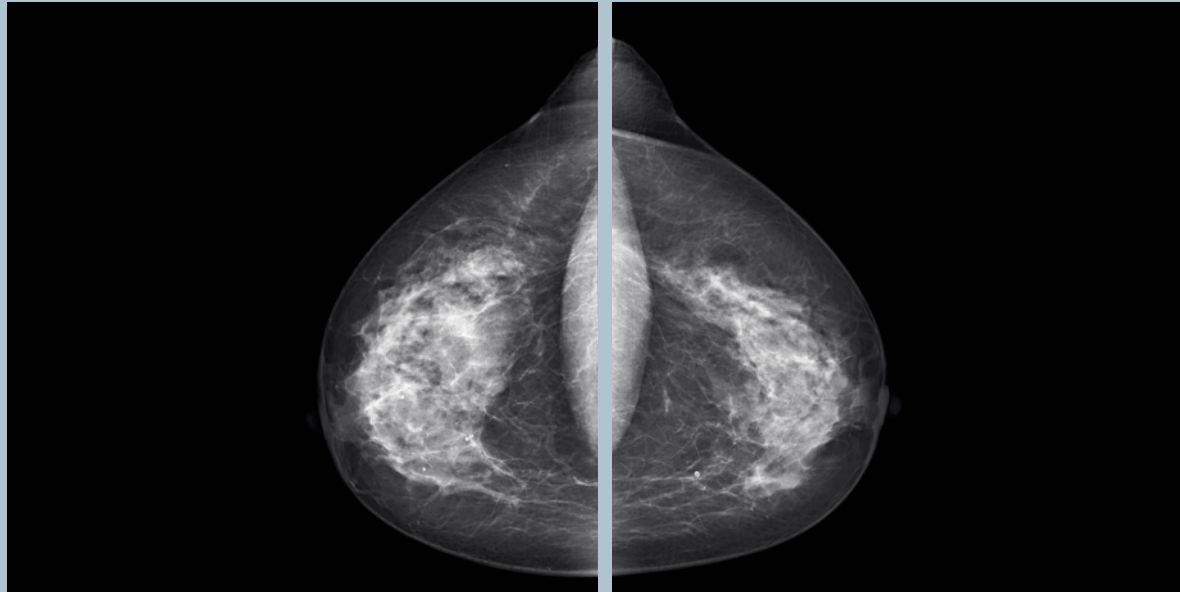
With a new AEC algorithm, dose calculation has been further optimized: The system measures and selects exposure parameters based on the individual breast size and composition. This adaptive AEC provides full flexibility in terms of breast positioning.

OpView 2

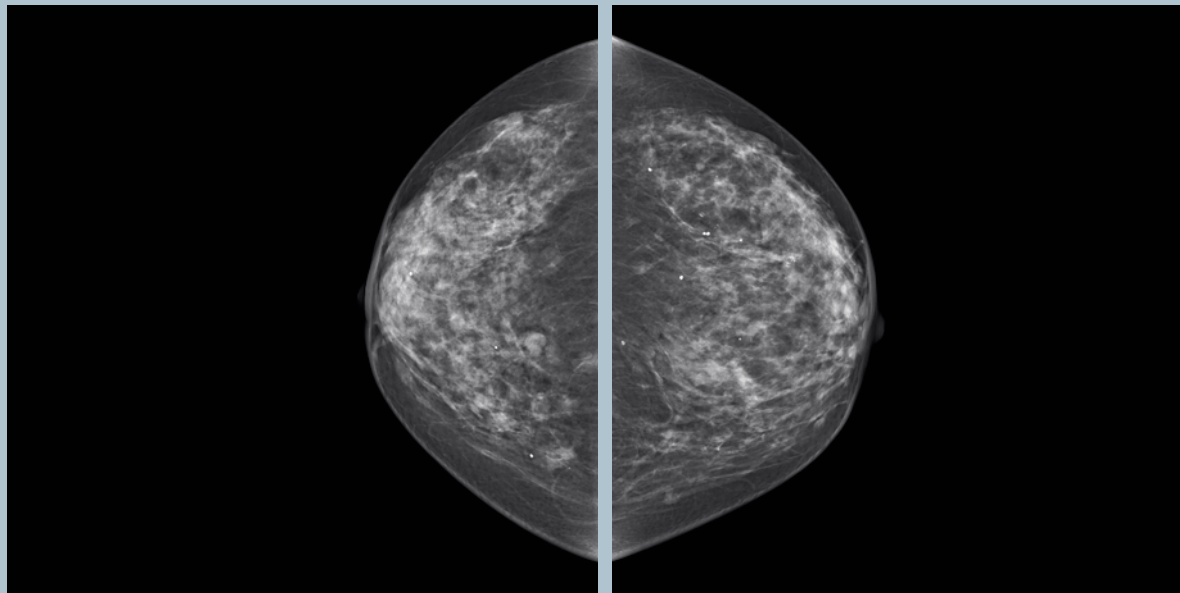
The new image processing software OpView 2 from Siemens is specially designed for digital mammography to produce excellent image quality. New algorithms provide excellent visibility of the breast border as well as structures in dense tissue. The settings can be customized for your viewing preferences, providing versatility.

*DQE = Detective Quantum Efficiency: DQE measures the efficiency of the detection process of an image detector given by squared ratio of the output signal-to-noise ratio to the input signal-to-noise ratio.

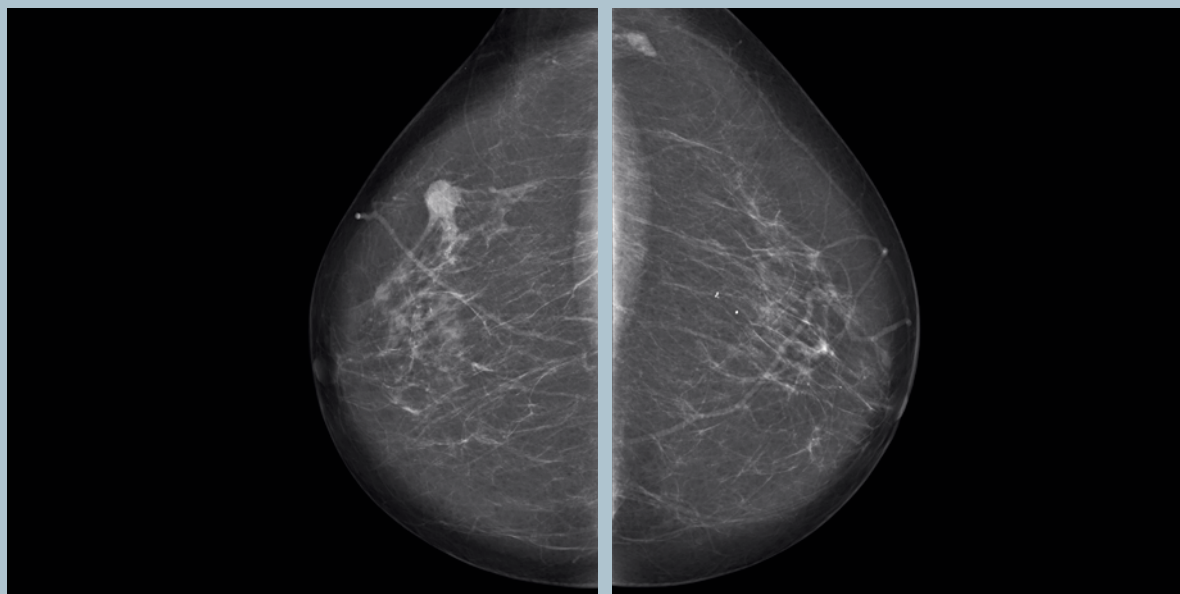
Excellent contrast and clear visualization of all details even in the presence of dense glandular tissue




Small structures like microcalcifications are clearly depicted in skin line delineation



High conspicuity of a tumor-suspicious lesion



Courtesy of Prof. Dr. Uhlenbrock & Partner, Dortmund, Germany



“Competitiveness, efficiency, sustainability – these are requirements that everyone wants. Is there any system that can meet these demands?”

With its ability to be upgraded, the MAMMOMAT Inspiration is a sound investment now and for the future. This translates into cost efficiency and will help you achieve your strategic goals.

Strategy &



Success

MAMMOMAT Inspiration

Cost efficiency for the administrator



MAMMOMAT Inspiration meets the individual needs of each patient and speeds up workflow. Increased patient throughput can help reduce costs, especially in high-volume screening environments.

IT connectivity

With MAMMOMAT Inspiration, you profit from the advantages of *syngo*, the comprehensive Siemens user interface allowing multi-modality viewing.

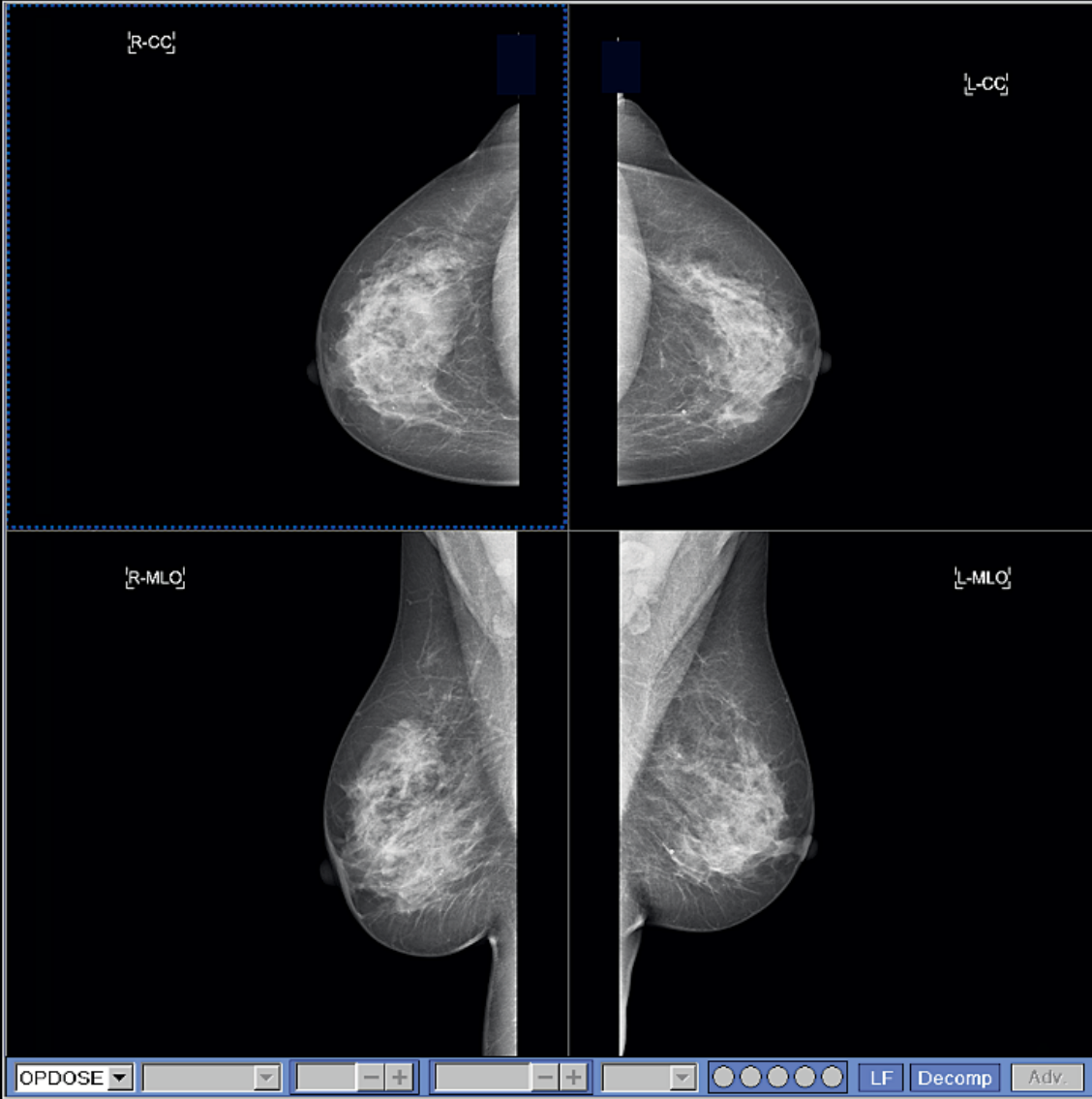
To take full advantage of the benefits of digital mammography, Siemens' dedicated Acquisition Workstation (AWS) and *syngo* MammoReport for reporting provide an ideal solution for clinical processes. Through DICOM and RIS compatibility, patient data is readily stored in existing clinical archives.

Reliable service

Servicing systems as fast as possible is crucial in a clinical environment. Due to Siemens Remote Service, time gaps are shortened or downtime is even completely eliminated. Thanks to constant monitoring, deviating parameters are detected before problems occur.

Future upgradeability

MAMMOMAT Inspiration not only presents a new full-field digital mammography system but it also provides a technology platform that will allow for a smooth upgrade path from the standard configuration to stereotactic biopsy and additional future technologies.



Examination

Viewing

- Open patient
- Acquisition
- Post processing
- Close patient

- Open MPPS Dialog
- Open Scheduler

Procedure:
Bilateral Mammo

Images

Inspir



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Comfort & Care for the patient

- The Opdose feature of Inspiration is designed to minimize a patient's radiation dose and exposure time. The Opcomp feature optimizes breast compression.
- The MoodLight rounds off the open and distinct design.



Ease & Excellence for the physician and the technologist

- With one mouse click, the system is ready for image acquisition.
- The fast aSe detector minimizes time between exposures.
- The Opdose feature is designed to minimize a patient's radiation dose and exposure time.



Strategy & Success for the administrator

- Increased patient throughput.
- Siemens Remote Service allows for improved maintenance.
- The system is easily upgradeable to biopsy and additional future technologies.

The information in this document contains general descriptions of the technical options available and may not always apply in individual cases.

The required features should therefore be specified in each individual case at completion of contract. Siemens reserves the right to modify the design and specifications contained herein without prior notice. Please contact your local Siemens sales representative for the most current information.

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In the interest of complying with legal requirements concerning the environmental compatibility of our products (protection of natural resources, waste conservation), we recycle certain components. Using the same extensive quality assurance measures as for new components, we guarantee the quality of these recycled components.

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