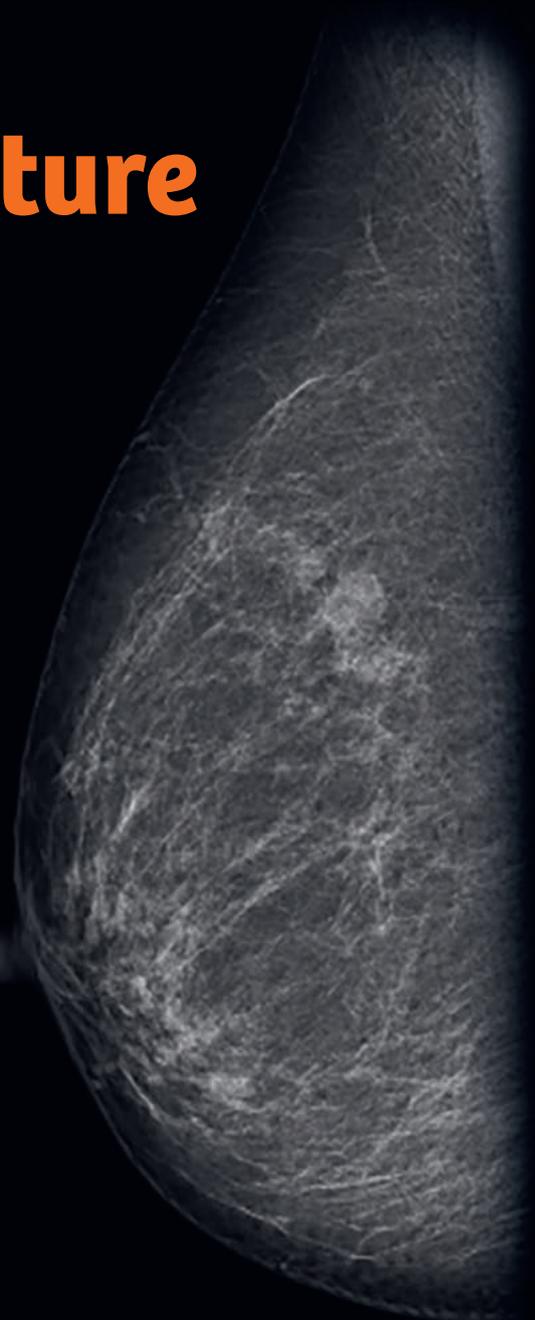


MAMMOMAT Revelation

See the whole picture

siemens-healthineers.com/revelation



1aaa078



SIEMENS
Healthineers

MAMMOMAT Revelation

See the whole picture



Go for quality

It's not only about precision in cancer detection, it's also about continuously supporting customers.

A mammography system designed for you and your team with additional solutions for every step of the Breast Health Journey and beyond.

More expertise. More service. More efficiency.



Aim for the right dose

It's not only about lowest dose, it's also about highest image quality.

A mammography system designed to provide you with superior cancer detection¹ at a low dose.

See more. Detect more. Rule out more.



Focus on all patient needs

It's not only about comfort and speed, it's also about certainty.

A mammography system designed to help you easily adapt to every woman and her unique circumstances.

Less discomfort. More confidence. More reliability.



How do you master today's complex and demanding healthcare market? How do you meet the needs of well-informed consumer-patients while operating under relentless cost pressure? How do we fight the world's most threatening diseases? Breast cancer is the most common cancer in women worldwide² and the second leading cause of death.³ One in eight women will develop invasive breast cancer in her lifetime.⁴

Our answer: MAMMOMAT Revelation.

A mammography system that not only enables 3D visualization of the whole breast with its market-unique 50° Wide-Angle Technology, but also comes with an outstanding solution package, opening the door to our Breast Health 360° approach. Siemens Healthineers supports you throughout the entire Breast Health Journey – from early detection, screening, and diagnostic methods to treatment, therapy, and follow-up.

- Deliver precise, early cancer detection and benefit from comprehensive customer support
- Find the right balance between radiation dose and image quality
- Offer a comfortable, speedy patient experience without compromising on diagnostic certainty

MAMMOMAT Revelation lets you see more, detect breast cancer earlier, and help women stay healthy.

Go for quality

**It's not only about precision in cancer detection,
it's also about continuously supporting customers.**

MAMMOMAT Revelation is a state-of-the-art mammography system you can rely on for early detection and precise diagnosis of breast cancer. But there's so much more to it: Our 120-year history at the cutting edge of healthcare technology – which includes half a century of mammography research – taught us that truly superior healthcare technology goes far beyond manufacturing excellent systems.



By choosing our MAMMOMAT Revelation, you not only get world-class equipment, but also benefit from our Breast Health 360° approach. We take care of you in every step of the way: from examination workflow to services over the entire product lifecycle.

More expertise. More service. More efficiency.



Breast Health 360° Highest degree of care. Because we care.

Seeing the whole picture also means seeing your entire journey as you deliver the best possible care to your patients. Siemens Healthineers is at your side with a holistic, personalized portfolio of solutions that we call our 360° approach: We've got you covered in every step of the Breast Health Journey from discovery to recovery. From obtaining a patient's medical history to screening and diagnosis, treatment, and follow-up – we provide accurate, human-centric, and economical solutions to empower your decisions. Thanks to our new business segment Varian, we are expanding the potential of cancer treatment even further.

**Profit from expert knowledge across all imaging modalities with a global player:
Siemens Healthineers**





Patient history

From the very beginning, it's important to make sure that all information about a patient's history is accessible to every doctor and nurse involved in the treatment.

Insight BD

Objective, volumetric classification supporting instant risk stratification and personalized breast care pathways.

ARIA® oncology information system⁵

A comprehensive, electronic patient record optimized for the oncology setting and managing the patient journey.

eHealth Patient Portal

Enables patients to access and organize their personal health data.



Screening

Every case is unique, and every patient needs to be treated as an individual. Technological innovations make screenings reliable, precise, and more comfortable than ever before, helping doctors make key decisions faster.

MAMMOMAT Revelation

Our flagship mammography system for both FFDM and tomosynthesis, designed for superior cancer detection.

Abbreviated Breast MRI

Fast, 15-minute table time breast MRI protocol for screening high-risk patients.

MAMMOVISTA B.smart⁵

Covers the full spectrum of multimodal diagnostics from mammography to MRI and ultrasound.





Diagnosis

Doctors rely on a wide range of cutting-edge procedures and scans to get to the bottom of what's going on as quickly as possible. The more information we have, the better equipped we are to find a solution.

50° Wide-Angle Biopsy

Biopsy under the guidance of 50° Wide-Angle Tomosynthesis to achieve high target accuracy.

Breast MRI

Using MRI in diagnosis helps to individualize treatment decisions, e.g. in surgical strategies.

ACUSON Sequoia

The ACUSON Sequoia Ultrasound powered by BioAcoustic™ imaging technology reduces patient, technology, and user variability.



Treatment

Clinicians can choose from a variety of highly effective treatments and personalize each patient's treatment plan to meet their individual needs.

PET/CT scanner

Our scanners provide imaging for improved detectability of small nodal and skeletal metastases for improved staging accuracy.

SOMATOM go.Sim & go.Open Pro

Radiotherapy (RT) scanners are optimized for workflow and designed to accommodate every patient anatomy.

TrueBeam® radiotherapy platform⁵

Highly versatile C-arm medical linear accelerator that simplifies delivery of high-precision, image-guided radiotherapy.

Halcyon® radiotherapy system⁵

A powerfully intuitive system designed to optimize productivity and enable greater access to care.

Breast cancer tumor markers

Can be used to monitor breast cancer treatment and follow-up, including earliest signs of metastatic disease.





Follow-up

A diverse assortment of state-of-the-art technologies and procedures provides doctors with excellent tools for comprehensive and comfortable support during aftercare.

eHealth Virtual Visit⁶

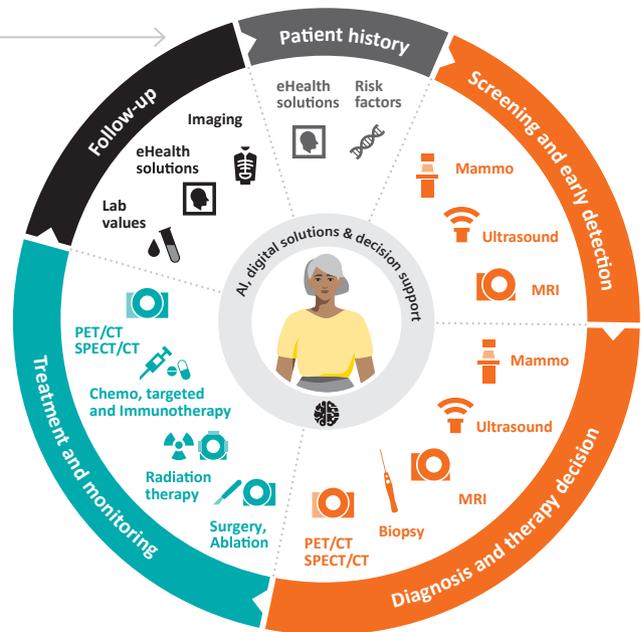
Live video consultation between physicians and patients enabling both to interact virtually with each other anytime and anywhere⁷ in just minutes.

Noona[®] ePRO application⁵ for electronic patient reported outcomes

A user-friendly patient engagement application that connects the patient with the care team and provides real-time symptom information for making important clinical decisions.

Laboratory diagnostics

Broad range of laboratory testing solutions to understand risk factors, make timely treatment decisions, implement appropriate therapies, and monitor treatment.



Rely on support along the entire product lifecycle

When you decide to buy a new system, you have a thousand questions. Our 360° approach means that we help you answer all of them because we consider every aspect of your operation as if it were our own.



Deploy your new system with confidence

This can be daunting. How can it be deployed smoothly and without hiccups? How fast can you get it up and running? How will your busy staff learn how to best use all of its great new features?

Service whenever you need it

Today, the service experience goes above and beyond pure maintenance. Service can make the difference to your daily operations and help you evolve. With our services, we are by your side whenever you need us. Siemens Healthineers specialists are available for instant remote assistance 24/7 in every time zone. With our presence in more than 150 countries around the globe, we're always close to our customers.

Turn your staff into MAMMOMAT experts

With our personalized education and training, your staff will be expert users who run your equipment at optimal efficiency in no time. Stay current with PEPconnect⁵ and transform care delivery for enhanced patient outcomes. PEPconnect is our personalized online education experience designed for healthcare professionals that's customized to their role and learning behavior— designed to increase their competency, efficiency, and productivity.

A smooth experience over the entire lifecycle

Buying new equipment is exciting – deploying it can be challenging. Rest assured that our specialists are at your side every step of the way, from choosing the right customized solution to installing the system and integrating it into your existing IT infrastructure. We are your trusted partner over the entire lifecycle of your system and beyond. Our service plans are designed to keep uptime high at predictable cost and great efficiency.

Get your new system fast

We help you respond to evolving market demands fast and flexibly. We can now reduce lead-time by more than 60%⁸ and deliver your system at the speed you need to keep up with highly dynamic throughput requirements in women's health screening programs. Our systems are manufactured in Germany at the highest quality standards, so you can confidently face operational pressures while maintaining your high quality of care.

*“When we got the new machine, the MAMMOMAT Revelation, the training went really well. Our trainer was amazing. She was very patient, very thorough, **made you feel very comfortable asking any questions**. We all felt pretty comfortable when she left.”⁹*

Julie Schaub, Mammography chief

Southern New Hampshire Radiology Consultants, New Hampshire, USA

Keep your new system running smoothly

Once your system is in service and running well, you need to make sure it stays that way. How do you maximize system uptime and availability? What if there's an issue? How do you keep it up to date?

Maintain and monitor your system with our Performance Plans

To protect your investment, we offer comprehensive and flexible service coverage to meet your specific needs: Meet our Performance Plans.

Our service plan for your MAMMOMAT Revelation helps optimizing equipment performance at defined costs.

Rely on our dedicated service plan that includes:

- **Equipment Uptime** – enhance equipment performance and benefit from uninterrupted operations as well as compliance with regulatory guidelines through certified OEM know-how and fast support
- **Quality Results** – advance your competitiveness and deliver optimal diagnostic and clinical outcomes through expert maintenance and quality assurance
- **Managed Budget** – keep your expenditures under control through service coverage tailored to your needs and budget at fixed costs.

Turbo Calibration and Remote Update Handling

- **Turbo Calibration**
Every mammography system needs to be calibrated regularly. Turbo Calibration takes less than five minutes once every three months⁵ – with no interruption of your facility's processes, resulting in >90%¹⁰ less downtime caused by detector calibration.
- **Remote Update Handling**
For optimal system performance, your equipment must always be up to date. Our Remote Update Handling with added security features helps to improve your workflow and time management. teamplay Fleet Anytime Software Updates allows you to schedule updates to minimize disruption to your operations.

Make a sound financial investment

Getting a new system is a major financial decision, so you want to be sure it is a sound one. What if you can only make a modest investment first, but might need scalability later? What if new legal guidelines force you to make changes? How can you best model your budget? What about consumables and other accessories you need?

Flexible investment to match your needs

Legal guidelines for breast imaging can change rapidly, for example, regarding the use of tomosynthesis for screening. Thanks to its modular system design, MAMMOMAT Revelation evolves with your requirements. You can opt for a lower initial investment, then easily upgrade when your needs change or your institution grows. And having the latest technologies integrated in one device enhances investment security.

- **Asset Management & Planning**
Enjoy access to innovative medical technology and equipment throughout the entire contract lifetime, allowing you to focus on patient care.
- **Business Modelling & Financing**
Stay on top of your budgetary and enterprise needs and maintain your competitive edge with our customized business and financial models.

Accessory Solutions

Our partner companies provide all the accessories and consumables you need to use our equipment in your daily workflow, such as biopsy needles and contrast agents.

Stay on top of your performance

Your system is in place – now you need to know how well it is performing. We help you monitor performance and optimize your workflow and department layout.

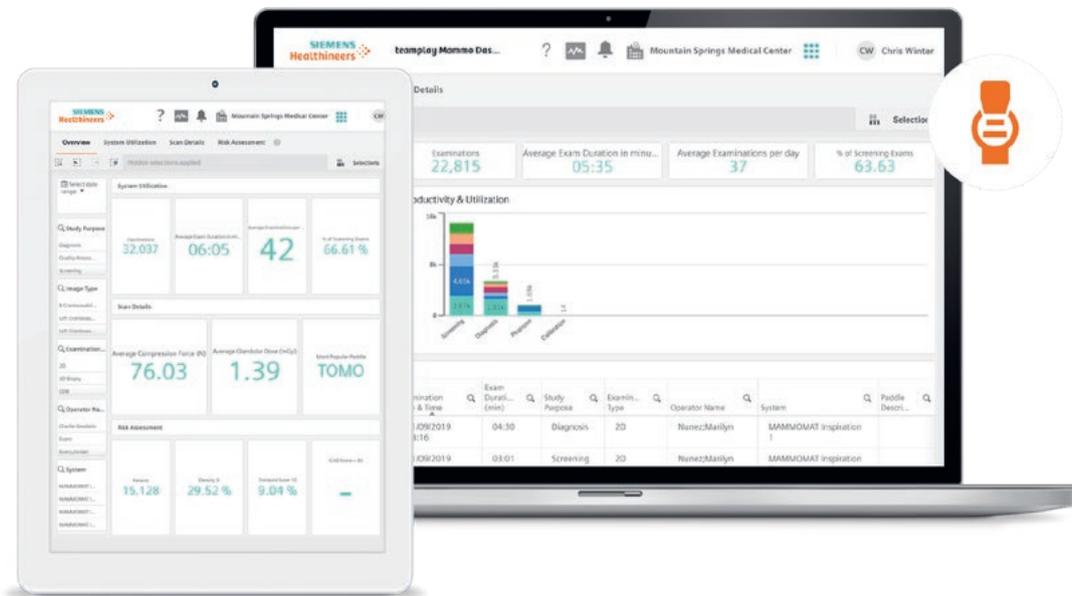
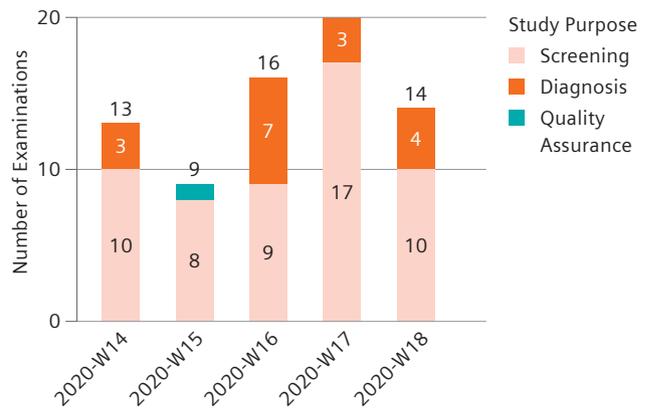
Performance Management

A clear overview of your mammography systems performance data helps you make prompt and well-informed decisions. teamplay Mammo Dashboard⁵ helps to boost your operational efficiency and enables high quality of care in breast imaging.

Departmental Layout Optimization

3D-visualization and digital twin analysis can help to create more efficient workflows and a more pleasant working environment.

Productivity & Utilization



*“Siemens Healthineers is really interested in being a true partner rather than a one-way street, someone who shares our goals and expectations **to achieve what’s best for the patient and what’s best for the relationship.** Siemens Healthineers also offers outstanding service in close cooperation with our clinical engineering team to keep our equipment up and running!”⁹*

Don Owns, Director Tri Health Imaging Systems
Cincinnati, USA

Aim for the right dose

It's not only about lowest dose, it's also about highest image quality.

Since most breast health screenings are performed on healthy women, dose is a major factor. Women are well aware of the issue and want to avoid unnecessary radiation exposure. You, on the other hand, need the best possible image quality, to reliably identify what you see in mere seconds – without missing a lesion, over-diagnosing, or bringing patients back for avoidable recalls.



A system that delivers low dose, while giving you excellent image quality.

MAMMOMAT Revelation offers you just that: Its 50° Wide-Angle Tomosynthesis enables 3D imaging of the whole breast, delivering the highest depth resolution for screening, diagnostic imaging, and 50° Wide-Angle Biopsy.¹¹

See more. Detect more. Rule out more.



Aim for the lowest dose

The right dose in every examination: PRIME Technology

Low dose has always been a hallmark of our mammography products, but with our PRIME Technology's intelligent software algorithm, we've achieved the world's first software-based anti-scatter solution for mammography, reducing the dose by up to 30 percent¹² without compromising image quality. Sliding back the mechanical grid means there is no longer a fixed object absorbing radiation between breast and detector, so you can utilize 100% of the primary radiation – for lower overall dose levels.

The right dose for every patient: Automatic exposure control (AEC) and personalized OpDose

Because every breast is unique in density and size, AEC calculates the optimal dose for every breast – in every exam, no matter which position or view. In addition, the pectoral muscle is automatically excluded from the calculation for MLO views. Depending on breast thickness, density, and site-specific definition, OpDose® determines the exposure parameters and selects the best anode/filter combination for each breast individually. Five different predefined dose levels further optimize exposure.



Up to **30%** less dose in 2D
with unique PRIME Technology.¹²



*"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.**"¹² It reassures them we take their screening seriously."⁹*

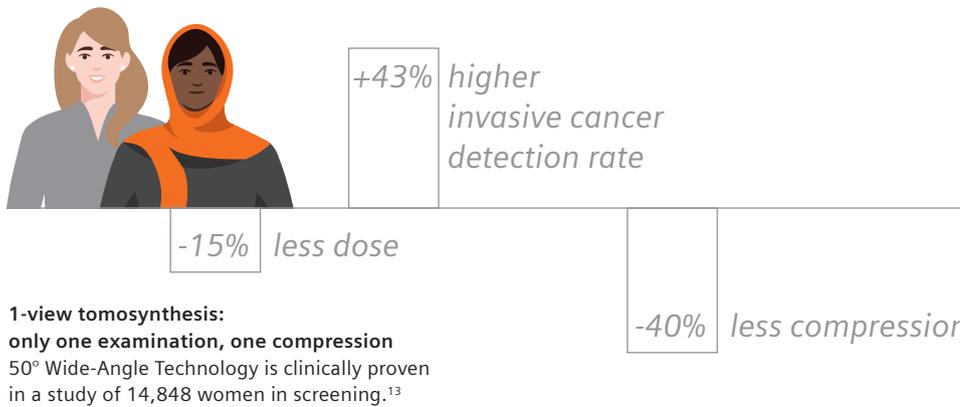
Detlev Uhlenbrock, MD, PhD
MVZ Prof. Dr. Uhlenbrock & Partners,
Dortmund, Germany

Always aim for the lowest dose possible: 1-view tomosynthesis

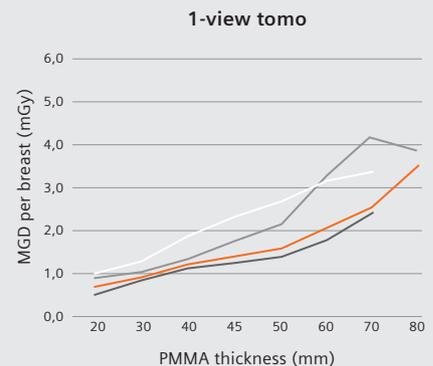
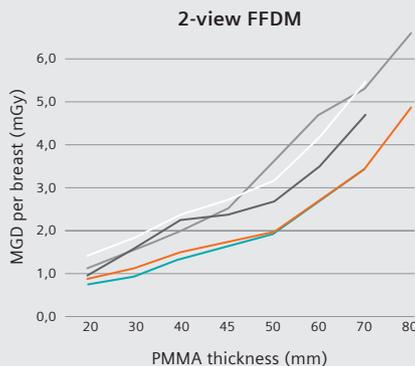
Tomosynthesis is a great approach to better detect breast cancer. And with our 1-view tomosynthesis, you are also able to reduce dose. Although our 1-view tomosynthesis takes 25 projections, it uses less dose than standard 2-view mammography.¹¹

No need for additional FFDM images: Insight 2D

Avoid unnecessary dose exposure for your patients. Certain jurisdictions require a tomosynthesis workflow to include a 2D image for documentation. You can meet this requirement with our Insight 2D, FFDM's synthetic twin. As you eliminate the need for an additional FFDM image, you lower overall dose exposure for your patient.¹⁴



The comparison of dose levels by different vendors shows the basically low dose exposure of our systems and the fact that a higher number of projections in tomosynthesis does not necessarily result in higher dose.¹⁵



— Siemens Healthineers — Vendor C
— Siemens Healthineers PRIME — Vendor B
— Vendor D

— Siemens Healthineers: 50° / 25 projections
— Vendor A: 25° / 9 projections
— Vendor B: 15° / 15 projections
— Vendor C: 40° / 15 projections

Aim for the best image quality

Reveal all that matters at a low dose: 50° Wide-Angle Tomosynthesis

While 2D mammography is still the standard technology, tomosynthesis is becoming more prevalent in screening space and for good reason. MAMMOMAT Revelation with 50° Wide-Angle Tomosynthesis overcomes diagnostic challenges like overlapping tissue with the highest depth resolution¹¹ and highest mass detectability¹⁶ on the market, enabling you to see more and detect more.

MAMMOMAT Revelation renders anatomical details clearly visible – with up to 3.5 times higher depth resolution compared to a narrow-angled system – in both 50° Wide-Angle Tomosynthesis and 50° Wide-Angle Biopsy. This makes the system superior to 2D mammography, which may leave as many as 30 to 50% of malignant tumors undetected.¹⁷ One of the largest studies worldwide with more than 15,000 screened patients has shown that with just a 1-view tomo scan¹³ and at 15% dose reduction, 50° Wide-Angle Tomosynthesis provides an increased detection rate of invasive cancer of 43%.

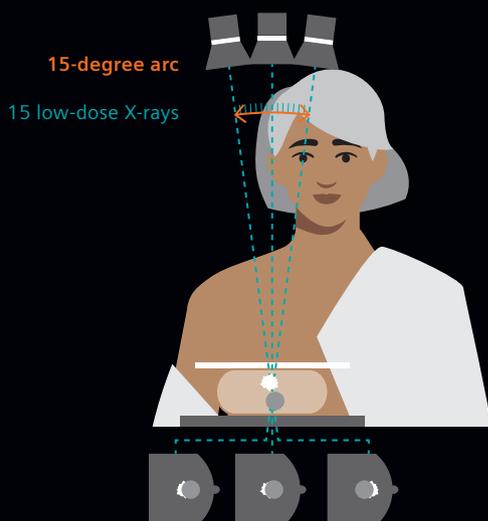


*"If supported by cost-effectiveness studies, one-view DBT warrants consideration as **the preferred breast cancer screening method in the future.**"⁹*

Sophia Zackrisson, MD, PhD, Associate Professor
Lund University, Malmö, Sweden

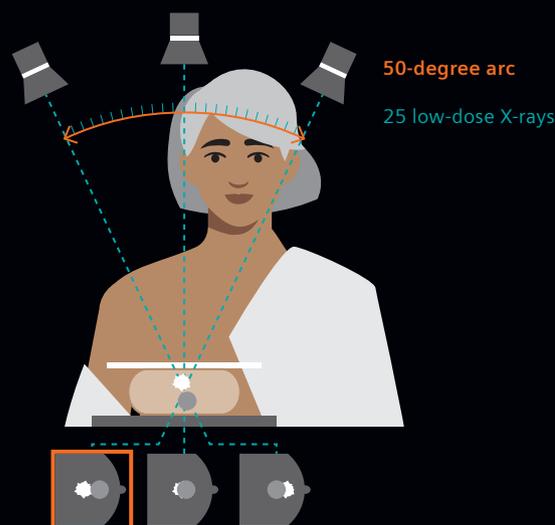


15° Tomosynthesis



Only one finding
clearly visible

50° Tomosynthesis



Both findings
clearly visible

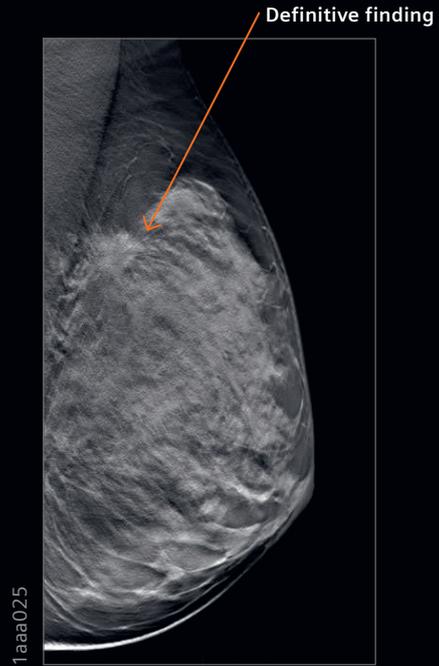
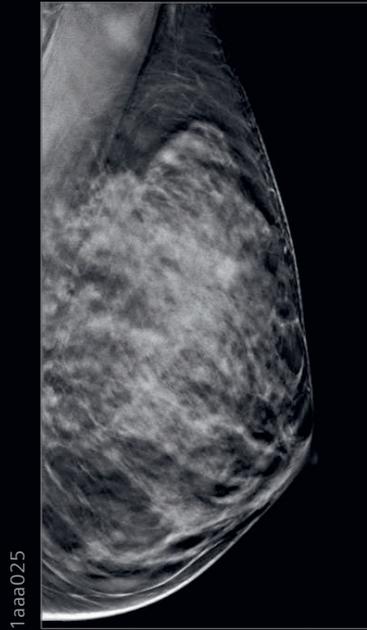
*"The mammogram with the tomosynthesis taken on the narrow-angled system showed no obvious mass to correlate with the clinical findings. This was somewhat surprising. We expected to see some abnormality. So we repeated the tomosynthesis study on the wide-angled system. **Now we could clearly see a spiculated mass** posteriorly in the upper inner quarter of the left breast."*⁹

Dr. Wayne Lemish
MIA Radiology, Melbourne, Australia

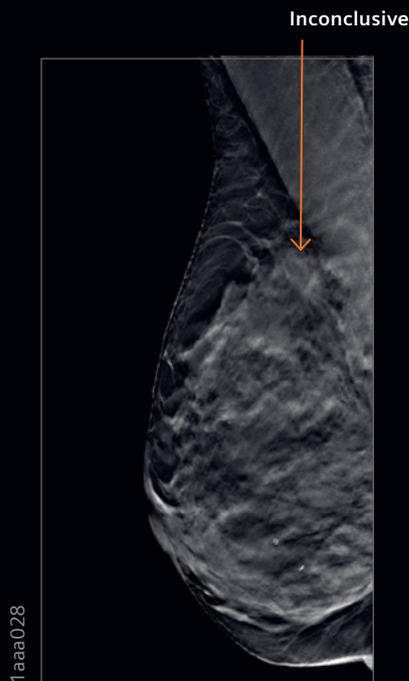
15° Tomosynthesis

50° Tomosynthesis

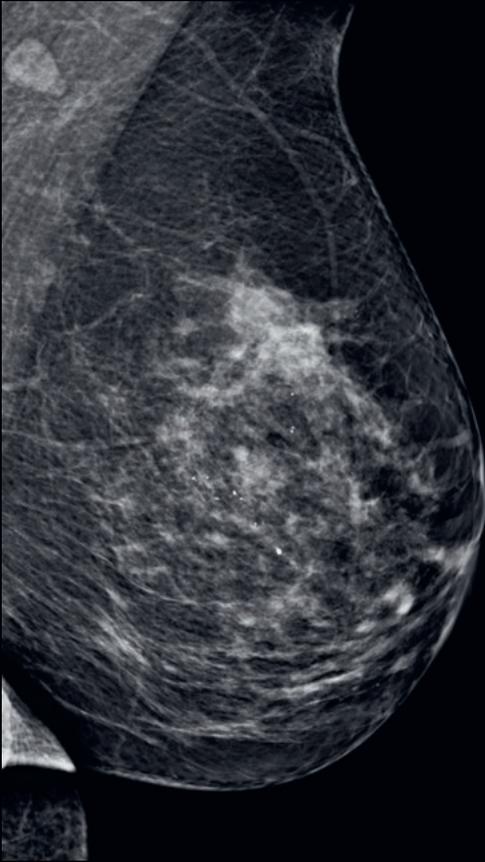
Clinical case:
Large palpable mass
posterior in the upper
quarter of the left breast
in a 55-year-old woman.
A biopsy later confirmed
the mass to be invasive
ductal carcinoma grade 2.



Clinical case:
Large palpable mass in
the upper quarter of the
right breast. A biopsy
later confirmed the mass
to be invasive lobular
carcinoma grade 2.

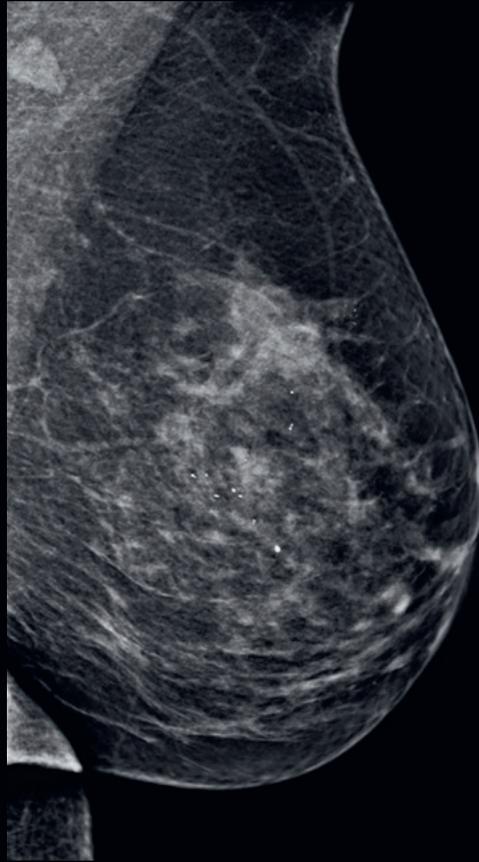


1aaa081



FFDM

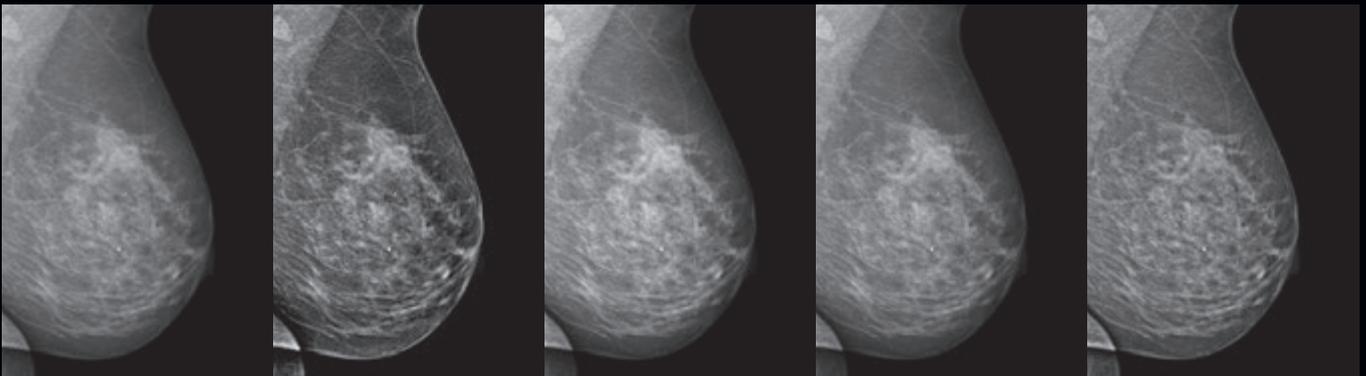
1aaa255



**Insight 2D –
the synthetic twin of FFDM**

You can also adapt synthetic images with various image flavors¹⁸ according to your personal preference, just as you know it from FFDM.

1aaa017



Flavor 0

Flavor 1

Flavor 2

Flavor 3

Flavor 5

Get more than just another view: Insight 2D and Insight 3D

2D mammography is the gold standard in breast screening – but for how much longer? It may soon be unseated by digital breast tomosynthesis, especially for women with dense breasts. There is an increasing number of large population studies to show that screening with breast tomosynthesis results in improved breast cancer detection rates and fewer call-backs.

You may be reluctant to go from 2D to 3D because tomosynthesis images give you a completely different kind and amount of information. To ease your transition, we're offering Insight 2D, a 2D visualization of the tomosynthesis volume. The image impressions from Insight 2D are very similar to FFDM, which helps you easily navigate the 3D data, make a fast side-by-side comparison of the left and right breast, and intuitively assess the density.^{19,8} The unique Insight 3D also displays a synthetic rotating visualization for improved orientation in the tomosynthesis volume and supports easier analysis of microcalcifications at a glance.

Why screening is vital

Current studies suggest that women whose screening routine lapsed because of the Covid-19 pandemic will have an increased rate of breast cancer mortality in the future.²⁰



*"In particular, the Insight3D is very helpful in the workflow and **eases the diagnostic assessment.**"⁹*

Dr. Marisa Windfuhr-Blum, Radiologist
University of Freiburg, Germany

*"Looking at 3D and rotating the images slightly makes the **interpretation five times faster.** And it gives me a much more secure feeling than I have from the tomosynthesis images alone."⁹*

Ritse Mann, MD, PhD, Head of Breast Imaging
UMC St Radboud, Nijmegen, Netherlands

Focus on all patient needs

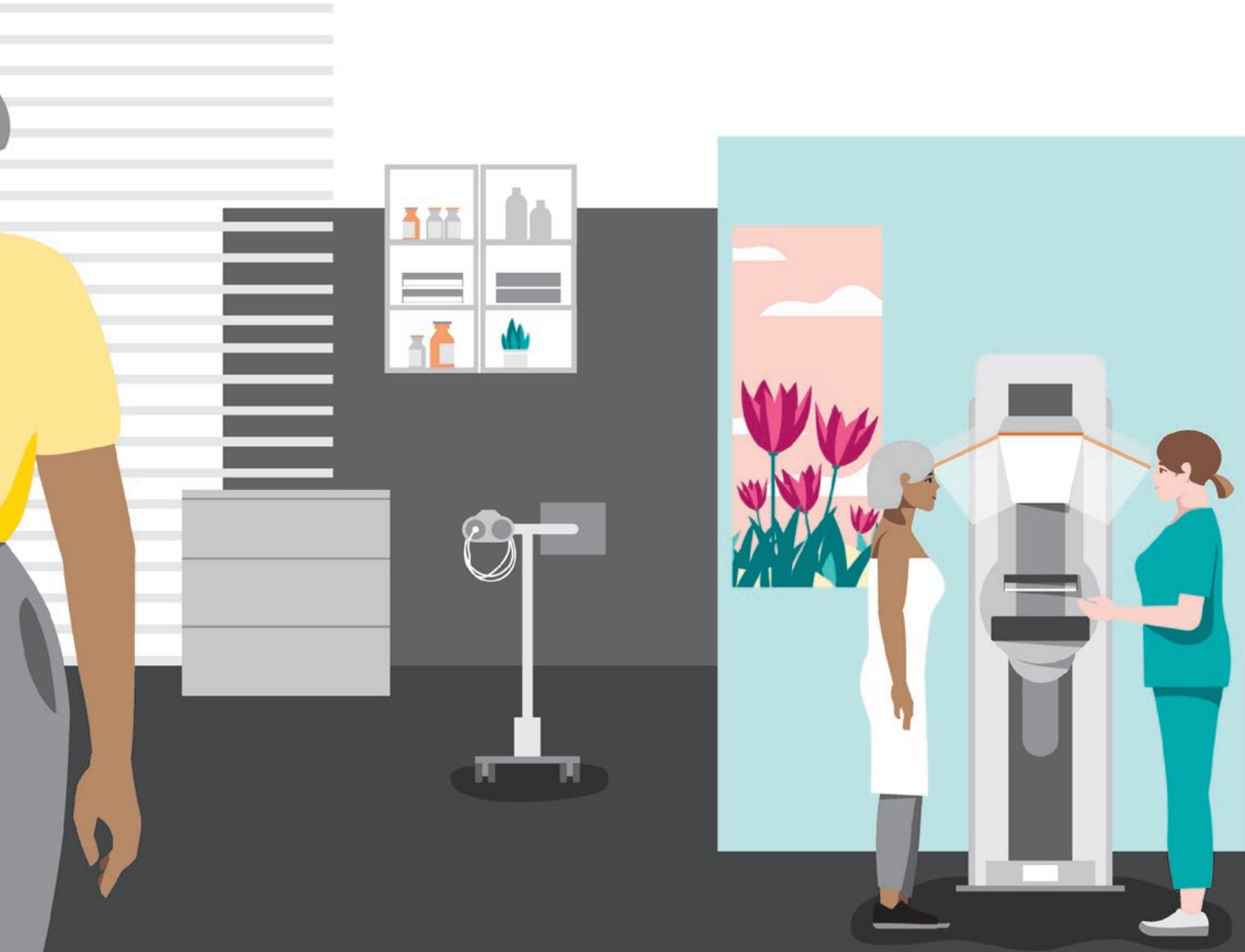
It's not only about comfort and speed, it's also about certainty.

Women are no longer passive patients, but informed consumers who demand a comfortable exam and fast, reliable results. They will choose their provider based on the available equipment and services – and they will make their voices heard in your quality ratings. A great patient experience is more important than ever.



Women know that when it comes to breast cancer, early detection is key for treatability and good outcomes. When findings are ambiguous or cancer is suspected, they need reliable results and certainty. MAMMOMAT Revelation and our extensive portfolio of services and solutions helps you deliver superior breast care to empowered patients.

Less discomfort. More confidence. More reliability.



Focus on a better patient experience

It starts with a soothing atmosphere: MoodLight and Breast Health Moods

For many women, a mammogram is a dreaded chore which they associate with pain, discomfort, and anxiety. This is why we offer unique comfort features that create a pleasant, calming environment. Our MoodLight function and wall decorations with Breast Health Moods bathe the examination room in warm colors and soothing lights that help women remain at ease during their exam. Relaxed patients mean faster exams, which in turn prevents delays.

Before the procedure, women get a chance to review our new patient materials, which can help answer many of their questions ahead of time and smooth your workflow.







Unique comfort for every woman: OpComp and SoftComp Paddles

Many women are anxious about their mammogram because of possible pain from compression. MAMMOMAT Revelation's personalized soft compression technology prevents unnecessary pain by adjusting to the anatomy of each woman's breast: OpComp automatically slows down when the paddle reaches the breast, giving staff time for proper positioning. The paddle stops as soon as it reaches optimal compression for the best image quality and increasing patient comfort while also reducing operator variation.



*"I also have better access to the breast, which is really helpful when it comes to positioning the patient. Especially for breasts with a very small volume, **I can withdraw my hand more easily.**"⁹*

*"The rounded edges of the SoftComp paddle **significantly reduce the pressure** on the area below the clavicle, which makes MLO imaging in particular much more comfortable for the patient."⁹*

Astrid Reichelt, MTA
MVZ Prof. Dr. Uhlenbrock & Partners,
Dortmund, Germany

MAMMOMAT Revelation

S
Health



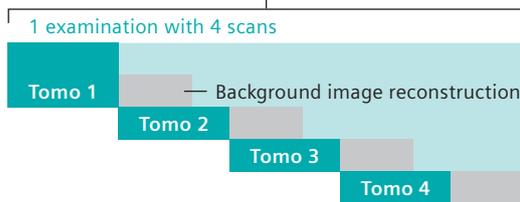
Easy patient positioning: One-click philosophy

MAMMOMAT Revelation allows you to focus on your patients instead of the system – thanks to our one-click philosophy that allows you to select the patient and start the examination with a single click. All parameters are automatically set, and the procedure moves from step to step with no additional clicks. Easily move the system to the next predefined exam position with the Single-Touch button so you can fully focus on what really matters: your patients.

Get patients in and out faster: 50° TomoFlow

With 50° TomoFlow – simultaneous image reconstruction in the background during the breast exam – the average exam takes only six minutes. Uninterrupted acquisition means your patients don't have to wait between views and spend less time in the exam room. Boost your efficiency by scheduling up to 10 exams per hour.⁸

< 6 min examination time per patient → 10 examinations per hour



Focus on certainty for your patients

Stay at the forefront of clinical developments: TiCEM

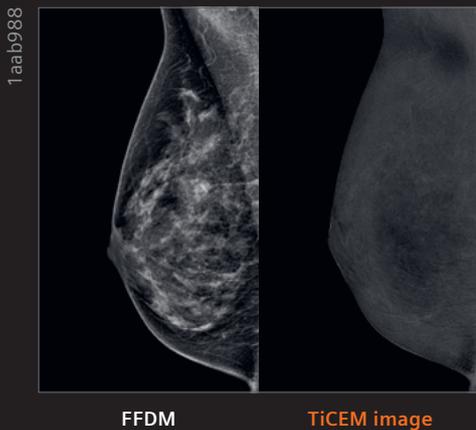
Some challenging cases require additional diagnostic information for confident decision-making. One possible adjunct examination is MRI, which is time-consuming, cost-intensive, and not always available. MAMMOMAT Revelation offers the option to integrate Titanium Contrast Enhanced Mammography (TiCEM) as a cost-effective diagnostic alternative – reducing scheduling conflicts and the workload on other modalities.

*“I did find it quite surprising how sensitively **even small carcinomas were displayed with TiCEM**. This made it possible to see even tiny multifocal structures that weren’t clearly visible in tomosynthesis. Lobular carcinomas and a DCIS also showed an enhancement – **that’s already MR quality.**”⁹*

Prof. Dr. Uhlenbrock
MVZ Prof. Dr. Uhlenbrock & Partners,
Dortmund, Germany

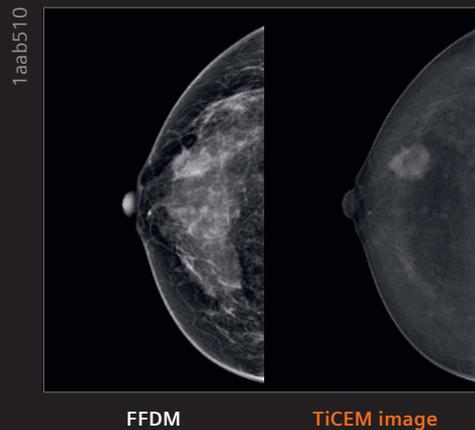
TiCEM – benign

Dense breast with suspicious mass in upper quadrant, BIRADS 2



TiCEM – malignant

Dense breast with irregular palpable mass, BIRADS 5 invasive ductal carcinoma



SIEMENS
Healthineers



Gain confidence with tomosynthesis spot images: SpotPlus compression paddle

Now, you can benefit from 50° Wide-Angle Tomosynthesis with the SpotPlus compression paddle, which enables you to focus on a smaller area of the breast with increased compression while still showing the surrounding tissue. This technique can help avoid unnecessary biopsies and gives radiologists added confidence in tomosynthesis imaging.

Leverage quick and precise risk assessment: Insight BD

Visual classification of breast density according to BI-RADS standards can be challenging. In fact, more than 70% of radiologists⁸ state that they are not always confident about their categorization in each and every exam. Our automated breast density assessment tool Insight Breast Density (Insight BD) offers you objective classification²¹ for instant risk stratification right at the acquisition workstation, directly after the first scan.

Give your patients certainty: 50° Wide-Angle Biopsy and InSpect

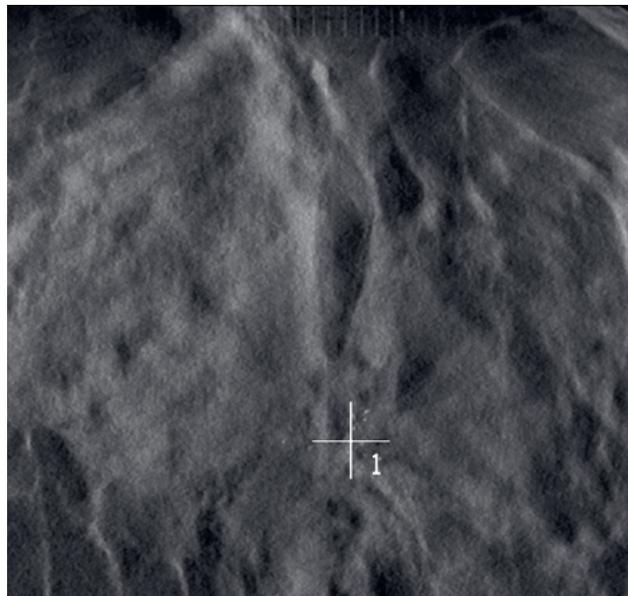
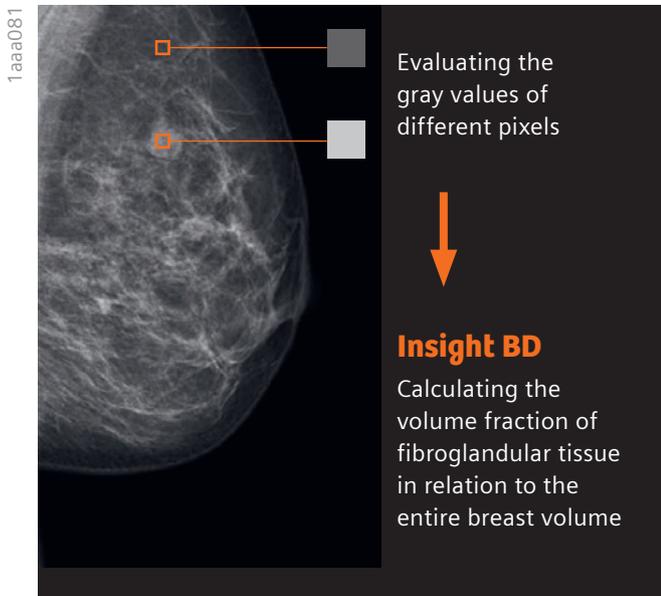
Precision is key when taking a tissue sample. Biopsies guided by 50° Wide-Angle Tomosynthesis have a target accuracy of ± 1 mm, reducing the potential need for retargeting. Less retargeting means less stress on the patient.

Make biopsies of nearly all kinds of lesions and microcalcifications faster and more accurate, thanks to:

- One-click targeting
- Intuitive guided workflows
- Motorized needle movement in the X, Y, and Z axes
- Both vertical and lateral needle access
- Compatibility with a variety of needle sizes
- Wide range of compatible biopsy devices

To make the procedure more comfortable and stress-free, use our spacer plate to ease targeting, especially for smaller breasts. Our dedicated biopsy chair⁵ allows patients to sit up or lie down.

Save the investment of an additional scan device and help create a more positive patient experience. With InSpect, our integrated specimen scanner, you can check the specimen in 20 sec. right in the exam room – without leaving your patient during the entire procedure and with no direct radiation to the patient.





Saving potential over five years
with the integrated specimen scanner InSpect:



Investment savings
for dedicated
specimen scanner:
€ 25,000



Staff cost reduction;
radiologist:
€ 15,000



Staff cost reduction;
technician:
€ 4,500



Cost reduction;
service/maintenance:
€ 10,000

**Total saving
potential:²²
€ 54,500**

**Numbers are based on
the following assumptions:**

- Time frame: five years
- Investment in dedicated specimen scanner: €25,000
- Service costs/year for specimen scanner: 10% (free first-year warranty included)
- Biopsies/month: 20
- Time savings with InSpect/biopsy: 10 minutes
- Labor cost/year radiologist: €150,000
- Labor cost/year radiographer: €45,000
- Work days per year: 250

Optimize your daily routine

MAMMOMAT Revelation is designed for you and your team. Its powerful technical specifications and convenient workforce features make your daily life easier with seamless automation.

Perfect design for highest expectations: Tungsten tube and detector

Time-tested tungsten tube

- Tube with Tungsten anode enables a long lifetime
- Two filters: Rhodium or Titanium
- Up to 50% dose reduction with Tungsten/Rhodium (compared to film-based systems)²³
- High heat storage capacity

Robust detector

- 24 x 30 cm Selenium-based direct-converter detector
- Fixed mounted, no movement during scan
- Minimized number of electronic components, integrated circuitry and optimized system cabling to avoid impact of electronic on image quality

Faster startup

- Boot your system faster thanks to a shorter startup time (4 min)
- Enjoy plenty of RAM and memory:
 - 32 GB RAM
 - 3.4 TB hard disc for image storage

Flexible image transfer

- Decide between two different image transfer protocols
 - End Exam: Images will be transferred after exam is completed
 - In Exam: Images will be transferred directly after the exposure during the exam
- Transfer every image with right mouse click immediately (not for biopsy)

Quick content switch

Switch faster¹⁰ between different imaging modes, e.g. from tomosynthesis to 2D.

Why Siemens Healthineers

At Siemens Healthineers, our purpose is to drive innovation to help humans live healthier and longer. Through our products, services and solutions we help physicians, medical staff, and healthcare providers prevent illnesses from occurring and to correctly diagnose and determine the right treatments for people who do become ill – resulting in fewer complications, shorter hospital stays, and faster patient recovery.

Fleet Level Benefits

Unlock your potential – and increase the efficiency across your imaging fleet

As healthcare provider you are forced to do more with less, you have to run your radiology department more efficiently. A high level of complexity makes it challenging for you to reach the desired efficiency. Siemens Healthineers offers specific solutions across the entire X-ray portfolio

that let you standardize, analyze, and secure your fleet. Experience consistency, transparency, and confidence as valuable Fleet Level Benefits which help to improve outcomes and increase efficiency – and therefore help to achieve greater staff and patient satisfaction.



Standardize for consistency

- Systems with highly intuitive user interfaces and common workflows
- Staff with consistent knowledge level
- Unified image quality and same image impression



Analyze for transparency

- Consolidated data in one place
- Analyzed and evaluated data turned into valuable information



Secure for confidence

- Protect large IT network and imaging fleet with one cybersecurity philosophy
- Same maintenance cycles and update strategies for the whole fleet

Our mission is to enable healthcare providers to increase value by expanding precision medicine, transforming care delivery, improving the patient experience, and digitalizing healthcare. With our comprehensive portfolio – from in-vitro diagnostics and best-in-class imaging to therapy and follow-up care – we address the complete care continuum for many of the world’s most threatening diseases.

Every hour, more than 240,000 patients are touched by technologies provided by Siemens Healthineers. We are at the center of clinical decision making with almost three-quarters of all critical clinical decisions influenced by our solutions. We are a leading medical technology company with over 120 years of experience and more than 65,000 highly dedicated employees around the globe who are innovating every day, truly shaping the future of healthcare.

MAMMOMAT Revelation

See the whole picture

Breast Health 360°

A holistic, personalized portfolio of solutions that cover every step of the Breast Health Journey from discovery to recovery.

- Patient history
- Screening and early detection
- Diagnosis and therapy decision
- Treatment and monitoring
- Follow-up

Customer support and services

Rely on support along the entire product lifecycle.

- Hardware maintenance
- Software updates
- Staff training
- Financing solutions
- Performance optimization

50° Wide-Angle Tomosynthesis*

Superior cancer detection¹ with the highest depth resolution on the market.¹¹

Insight 2D and 3D*

Confidence in tomosynthesis reading with first synthetic visualization in both 2D and 3D.

50° TomoFlow*

With simultaneous image reconstruction in the background, the whole examination only takes 6 min per patient.

* Option



50° Wide-Angle Biopsy*

Target accuracy of +/- 1 mm based on 50° Wide-Angle Tomosynthesis.*

InSpect – Integrated Specimen Tool*

Save time and costs: Get your specimen scan within just 20 seconds right on the mammography system.

TiCEM – Titanium Contrast Enhanced Mammography*

Receive additional diagnostic information in order to confidently detect or rule out lesions.²⁴

Insight BD – Breast Density Assessment*

Objective classification supporting you in instant risk stratification right at the acquisition workstation.

PRIME Technology

Reduce dose by up to 30%¹¹ without compromising image quality.

Automatic exposure control (AEC)

Analyze the complete breast to calculate the right dose for each breast individually.

Personalized OpDose

Calculate the right dose for every breast – in every exam.

OpComp – Personalized Soft Compression

Increase patient comfort and achieve consistent image quality.

SoftComp Paddles

Increase patient comfort thanks to soft edges and a breast-optimized shape.

Tomosynthesis SpotPlus compression paddle*

Focus on a smaller area of the breast with increased compression while still showing the surrounding tissue.

MoodLight* and Breast Health Moods*

Create a relaxing atmosphere using the calming MoodLight with a wide selection of colors and our welcoming room design concept.



* Option

MAMMOMAT Revelation 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.

On account of certain regional limitations of sales rights and service availability, we cannot guarantee that all products/services/features included in this brochure are available through the Siemens Healthineers sales organization worldwide. Availability and packaging may vary by country and are subject to change without prior notice.

The information in this document contains general descriptions of the technical options available and may not always apply in individual cases. Siemens Healthineers reserves the right to modify the design and specifications contained herein without prior notice. Please contact your local Siemens Healthineers 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 may recycle certain components where legally permissible. For recycled components we use the same extensive quality assurance measures as for factory-new components.

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

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.

- 1 Compared to FFD; PMA P140011/S001 & P140011/S003
- 2 <https://www.wcrf.org/dietandcancer/cancer-trends/breast-cancer-statistics>
- 3 <https://www.cancer.org/cancer/breast-cancer/about/how-common-is-breast-cancer.html>
- 4 www.breastcancer.org/symptoms/understand_bc/statistics (March 15, 2019)
- 5 The product/feature and/or service offerings (mentioned herein) are not commercially available in all countries and/or for all modalities. Their future availability cannot be guaranteed.
- 6 eHealth Solutions consist of several products of ITH icoserve technology for healthcare GmbH, Innsbruck, Austria. Products of eHealth Solutions are not to be used for diagnostic purposes. The product offerings are not commercially available in all countries. Please contact your local Siemens Healthineers organization for further information.
- 7 Prerequisites include: Internet connection to clinical network, DICOM compliance, meeting of minimum hardware requirements, and adherence to local data privacy regulations.
- 8 Data on file
- 9 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.
- 10 Compared to former version VC10
- 11 Maldera et al. (2016): Digital breast tomosynthesis: Dose and image quality assessment. *Physica Medica*, pp. 1-12.; Marshall N.W. and Bosmans H. (2012): Measurements of system sharpness for two digital breast tomosynthesis systems. *Phys. Med. Biol.* 57, pp. 7629-7650.; Rodríguez-Ruiz A. et al. (2016): Evaluation of the technical performance of three different commercial digital breast tomosynthesis systems in the clinical environment. *Physica Medica* 32, pp. 767-777.
- 12 Compared to grid-based acquisition with Mammomat Inspiration, depending on breast thickness – L.B. Larsen, A. Fieselmann, H. Pfaff, T. Mertelmeier: Performance of grid-less digital mammography acquisition technique for breast screening: analysis of 22,117 examinations Presentation B-1025 ECR 2015
- 13 Compared to FFD; Zackrisson S, Lång K, Rosso A, Johnson K, Dustler M, Förnvik D et al. (2018) One-view breast tomosynthesis versus two-view mammography in the Malmö Breast Tomosynthesis Screening Trial (MBTST): A prospective, population-based, diagnostic accuracy study. *The Lancet Oncology*. doi:10.1016/S1470-2045(18)30521-7
- 14 Clauser et al. (2019) Synthetic 2-Dimensional Mammography Can Replace Digital Mammography as an Adjunct to Wide-Angle Digital Breast Tomosynthesis. *Investigative radiology* 54(2):83–8.)
- 15 Technical evaluation – Equipment Reports www.nhs.uk, 02/03/2020.)
- 16 Scaduto et al. (2018) Impact of angular range of digital breast tomosynthesis on mass detection in dense breasts," *Proc. SPIE 10718*, 14th International Workshop on Breast Imaging (IWBI 2018), 107181V (6 July 2018); doi: 10.1117/12.2318243
- 17 International Agency for Research on Cancer, World Health Organization. Published here: <https://www.who.int/cancer/PRGlobocanFinal.pdf>, 02/03/2020
- 18 Due to high data volume but limited bandwidth the mammography and tomosynthesis data sets cannot be loaded in their original size and resolution in any online presentation. The image do by no means achieve the diagnostic quality that is clinically required, especially for evaluating mammography examinations.
- 19 Talk of Prof. Van Ongeval at Breast Care Day 2019, Vienna; <https://www.siemenshealthineers.com/mammography/information-gallery/videos>, 02/03/2020.
- 20 [https://www.esmooopen.com/article/S2059-7029\(21\)00009-0/fulltext](https://www.esmooopen.com/article/S2059-7029(21)00009-0/fulltext)
- 21 Please note that Insight BD should be used as adjunctive information for visual breast density assessment by medical professionals
- 22 In no event does Siemens Healthineers make (I) any express or implied warranties with respect to any use of this device (II) any guarantees regarding actual results (e.g., profits, cash flow, or return on investment), which will vary based on numerous factors outside the control of Siemens Healthineers.
- 23 Uhlenbrock DF, Mertelmeier T. Comparison of Anode/Filter Combinations in Digital Mammography with Respect to the Average Glandular Dose; Vergleich von Anoden-/Filterkombinationen in der digitalen Mammografie in Hinblick auf die mittlere Parenchymdosis *Fortschr Röntgenstr* 2009; 181: 249-254.
- 24 Responses from more than 400 radiologists. Survey conducted at RSNA 2014, ECR 2015 and Advisory Board 2015; 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).

Siemens Healthineers Headquarters

Siemens Healthcare GmbH
Henkestr. 127
91052 Erlangen, Germany
Phone: +49 9131 84-0
siemens-healthineers.com