MAMMOMAT Revelation

With 50° Wide-Angle Tomosynthesis Superior by design.

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What’s new with VC20?
MAMMOMAT Revelation with 50° Wide-Angle Tomosynthesis

Superior by design.

MAMMOMAT Revelation – our flagship mammography system – brings tomosynthesis one step closer to screening. Clinically proven, its unique 50° Wide-Angle Tomosynthesis enables accurate\textsuperscript{1,2} and earlier detection of breast cancer. MAMMOMAT Revelation is designed for superior cancer detection\textsuperscript{1,2}, personalized care, and high cost-effectiveness.

\textbf{50° Wide-Angle Tomosynthesis}

Superior cancer detection\textsuperscript{1} with the highest depth resolution on the market.\textsuperscript{2}

\textbf{Insight 2D and 3D}

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

\textsuperscript{1} Compared to FFDM; PMA P140011/S001 & P140011/S003.
TiCEM – Titanium Contrast Enhanced Mammography
Receive additional diagnostic information in order to confidently detect or rule out lesions.

* Option

PRIME Technology
Reduce dose by up to 30%\(^3\) without compromising image quality.

50° Wide-Angle Biopsy
Target accuracy of \(+/-\) 1mm 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.

Insight BD – Breast Density Assessment
Objective classification supporting you in instant risk stratification right at the acquisition workstation.

Personalized Soft Compression
Increase patient comfort and achieve consistent image quality.
We are pleased to announce the arrival of our latest MAMMOMAT Revelation version VC20.

This new system version includes comprehensive improvements and also enables access to exciting new features. This document provides an overview of the benefits you can expect from MAMMOMAT Revelation VC20.

We are continuously striving to develop the quality of our products and sincerely believe that this new system version will further improve your daily work with your mammography system.

Experience new possibilities with MAMMOMAT Revelation VC20.

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2 Compared to FFDM.
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1. 50° Wide-Angle Tomosynthesis

With our 50° Wide-Angle Tomosynthesis, we provide a highly accurate method for detecting cancers and facilitating a reliable diagnosis. This will result in a significant change for breast care professionals, for radiologists, and—most importantly—for the many women and their families personally affected by breast cancer.

50° TomoFlow* • New

Now, with 6-minute examination slots, 50° Wide-Angle Tomosynthesis is ready for efficient screening, enabling you to schedule up to 10 examinations per hour. Your patients benefit from uninterrupted acquisition with our optimized 50° TomoFlow examinations. This gives you more time for what matters most – your clients and patients.

- Decrease in-room time
- Drive efficient screening with up to 10 tomo exams per hour¹
- Seamless exam without waiting time between views, because reconstruction is in the background

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¹ Data on file

* Option
**Insight 2D**

*New*

Build more confidence in tomosynthesis reading with Insight2D. It enables easier communication with surgeons, referring physicians, and patients. Siemens Healthineers’ 50° Wide-Angle Tomosynthesis with Insight 2D has been shown to significantly improve diagnostic accuracy compared with FFDM alone.³

Your benefits with the Insight 2D:

- Provides an “Easy to read” overview¹
- Intuitive density assessment²
- Fast comparison to prior FFDMs²
- Easy side comparison²
- No additional dose⁴

Enables easy comparison with prior images *New*

**Insight 2D & 3D**

*New*

Image flavors for synthetic images *Option*

Now, you can also adapt the image impression of synthetic images according to your personal preference.

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¹ Responses from more than 400 radiologists. Survey conducted at RSNA 2014, ECR 2015 and Advisory Board 2015
² Data on file
³ As measured by the area under the ROC curve in an MRMC study – P140011/S007
⁴ Compared to FFDM + DBT scan
⁵ Option
Tomo Spot® images with 50° Wide-Angle Tomosynthesis  ■ New

Tomosynthesis has been proven to be a useful tool in characterizing suspicious lesions, improving diagnostic accuracy and reader confidence.¹ It also has been shown to reduce the need for spot compression due to better tissue separation than the 3D technique. With 50° Wide-Angle tomosynthesis having the highest depth resolution² on the market, you can achieve better tissue separation. However, in those few cases that are still inconclusive on 50° Wide-Angle Tomosynthesis, spot compression 50° Wide-Angle Tomosynthesis can be a useful technique in the assessment of screen detected masses, asymmetries, architectural distortions, and microcalcifications.

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 can be especially beneficial in:

• Evaluating ambiguous cases, to better classify lesions or identify superimposed tissue
• Assessing margins of masses
• Visualizing microcalcifications

This technique has the potential to help avoid unnecessary biopsies and radiologists gain added confidence in tomosynthesis imaging.

* Option
2. 50° Wide-Angle Biopsy

With MAMMOMAT Revelation, biopsies can be performed under the guidance of the 50° Wide-Angle Tomosynthesis. This allows a target accuracy of +/- 1 mm, which can potentially avoid having to re-target after firing. The integrated specimen scanner InSpect\* facilitates the immediate control of the biopsy specimen directly at the mammography system with a magnification factor.

**Targeting**  ■ New
Target setting with only one click at the respective tomosynthesis slice
- White box indicates targetable area for preselected needle
- High target accuracy of +/- 1 mm

**Standard lateral needle holder\* ■ New**
- For wire localizations and fine needles
- 4 different positions depending on localized area of concern
- Available for right and left approach

**Spacer plate\* ■ New**
- Helps ease targeting
- Easy attachment to the biopsy table
- Workstation adapts dose setting, calculation of breast thickness, and target volume accordingly

Further improvements to biopsy with VC20: ■ New
- Gain a 150% increase in the biopsy volume for lateral access, which could reduce the need for repositioning
- Home button to send the tower back to zero position with only one click
- Switch easily between 2D Scout and Tomo Scout

\* Option
3. Efficiency and performance

MAMMOMAT Revelation is designed for cost-effectiveness. Experience smooth workflows with the intuitive one-click philosophy and Turbo Calibration.

**Faster startup**  ■ New

- Faster startup thanks to a shorter startup time (4 min) ■ New
- Twice as much RAM enables a faster system startup. In addition, you have 3 times more memory available compared to the previous model:
  - 32 GB RAM (16 GB RAM with VC10)
  - 3.4 TB hard disc for image storage (1 TB with VC10)

**Turbo Calibration**  ■ New

- Detector calibration in only 5 minutes every 3 months¹
- Profit from 90% less downtime caused by detector calibration

**Flexible image transfer**

- Decide between two different image transfer protocols ■ New
  - "End Exam" images will be transferred after completing examination
  - "In Exam" images will be transferred directly after the exposure within the examination
- Transfer every image with right mouse click immediately (not for biopsy) ■ New

**Quick content switch**

Faster switching between different imaging modes, e.g. from Tomo to 2D ■ New

**Anytime software updates**

Avoid your system being blocked and decide for yourself when you want to update your system ■ New

¹ Country-specific regulations may differ from manufacturer recommendation
4. TiCEM – Titanium Contrast Enhanced Mammography

TiCEM* can help you to detect or rule out lesions in difficult cases\(^1\). The optimized titanium filter reduces X-ray tube load to enable seamless examinations.

**Improved image impression** — *New*

We optimized the adaptive weighting factor, which can lead to better visual separation between fibroglandular tissue and iodine contrast enhancements. Background artifacts are reduced and the breast appears more homogeneous.

Additionally, the motion correction algorithm reduces "shadow artifacts" and thus contributes to better homogeneity.

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

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

We’re a leading medical technology company with over 120 years of experience and 18,500 patents globally. With about 50,000 dedicated colleagues in over 70 countries, we’ll continue to innovate and shape the future of healthcare.

The outcomes and statements provided by customers of Siemens Healthineers are unique to each customer’s setting. Since there is no “typical” hospital and many variables exist (e.g., hospital size, case mix, and level of service/technology adoption), there can be no guarantee that others will achieve the same results.

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