

SECTRA MICRODOSE MAMMOGRAPHY

Focusing on women's health



SECTRA



Sectra is one of today's major diagnostic imaging providers and a leading supplier of digital mammography systems.

Sectra's business concept is to increase the effectiveness of healthcare while maintaining or enhancing quality in patient care. The company provide systems that simplify daily operations for customers, and Sectra takes pride in involving users of its equipment in the development process.

Sectra has been a stable vendor in the industry for two decades. We have always been profitable – creating success for our customers has also made us successful.

A strong local presence combined with a global perspective enables Sectra to deliver products and services tailored to the needs of individual customers.

WHY SECTRA?

Our mission is to improve the effectiveness and quality of healthcare. Sectra is leading the way in the evolution of digital mammography by providing a unique digital mammography system, Sectra MicroDose Mammography™. The system is based on ground-breaking photon-counting technology and delivers excellent images at the lowest radiation dose on the market.

Sectra applies leading-edge technology and innovation for the benefit of women's health. Our state-of-the-art solutions are optimized for healthcare providers dedicated to offering the best possible care.



TOTAL SOLUTION

Sectra offers a total solution for all digital mammography environments, supporting and enhancing every stage of the process, from initial patient contact through documented diagnosis.

The solution comprises the full-field digital mammography system Sectra MicroDose Mammography™, Sectra Screening RIS™*, Sectra Breast Imaging PACS™, Sectra's

multi-modality review workstation IDS5/mx.net™ and an integrated osteoporosis analyzing functionality.

Sectra's mammography solution provides rapid and seamless integration with IT systems used in hospital environments, as well as full DICOM conformance. The result is total connectivity and image-sharing within and outside the mammography department.



Sectra's philosophy is full integration, regardless of vendor

Integrated patient information

Sectra Screening RIS, with its unique RIS/PACS integration, is optimized for digital mammography. The system offers screening functionality that includes automatic invitations based on demographics. Sectra Screening RIS also includes dedicated functionality for registration and follow-up of both clinical and screening mammography.

Moving information instead of people

Sectra Breast Imaging PACS is all about getting the right information to the right person in the right place and at the right time. The system supports and enhances every stage of the workflow.

IDS5/mx.net is Sectra's multi-modality review workstation dedicated to breast imaging. The workstation is designed with speed in mind and equipped with customized tools to meet the special workflow and throughput requirements in mammography, both for screening and clinical examinations. The radiologist has instant and simultaneous access to all types of radiology information, such as digital breast images from all modalities and vendors, RIS information and scanned documents, just one mouse click away.

Integrated osteoporosis analysis

Sectra's osteoporosis testing software, combined with Sectra MicroDose Mammography, is a major advance in women's health. The system enables highly efficient dual examinations, thereby increasing the return on your investment.

Sectra's approach makes osteoporosis analysis a seamlessly integrated part of the workflow. The osteoporosis software applies its patented Digital X-ray Radiogrammetry (DXR) technology to an X-ray image of the patient's hand, providing an accurate bone mineral density (BMD) measurement in just a few seconds. This is an ideal tool for measuring BMD to detect patients in the risk zone for osteoporosis. The extreme precision of the measurements makes it ideal to monitor bone health in the course of breast cancer treatment or treatment of osteoporosis.



THE KEY TO WORKFLOW EFFICIENCY



True workflow efficiency

Sectra knows the challenges you face every day in your work. Extensive experience in PACS and IT has made Sectra a specialist in understanding digital workflows. Sectra's FFDM system, Sectra MicroDose Mammography, is designed to handle demanding high-volume mammography operations.

Unsurpassed throughput

With Sectra MicroDose Mammography you can easily perform 12 examinations per hour, non-stop throughout the day. Sectra MicroDose Mammography is equipped with the fastest and most efficient detector on the market.

Automated movements

The system's fully automated angulations, controlled from a shortcut keypad, will save you time and effort by maximizing the efficiency of every move you make.

Sectra provides instant access to all the tools you need for a complete screening and clinical mammography workflow. The easy-to-use system will therefore enable you to spend more time with your patients.

EXCELLENT ERGONOMICS

Ergonomic working environment

Sectra MicroDose Mammography was designed in close cooperation with mammography experts, with the technician's work environment in focus.

To eliminate strenuous or unnecessary movements for the technician, Sectra MicroDose Mammography is equipped with a dedicated shortcut keypad that controls the angulation of the stand at the press of a button. Buttons for height adjustment are positioned in several easy-to-reach locations on the mammography stand. The fully motorized height-adjustable worktable is another example of the effort put into the design details to prevent work-related injuries.

Patient-friendly system

Sectra MicroDose Mammography provides excellent maneuverability for positioning the patient. Positioning is facilitated through motorized compression and a large SID (Source Image Distance). A wheelchair fits easily in the spacious area beneath the patient support. To make

the compression less stressful for the patient, Sectra MicroDose Mammography includes a curved patient support and a comfortably warm positioning surface to help the patient relax.

The smartest AEC on the market

Sectra's multi-slit scanning technology enables positioning to be flexible, so that it is possible to place the breast anywhere in the field of view and still obtain optimal image quality. Sectra's *SmartAEC* continuously adjusts the exposure throughout the scan movement in every part of the breast. *SmartAEC* is a unique feature that can only be implemented using Sectra's multi-slit scanning technology.

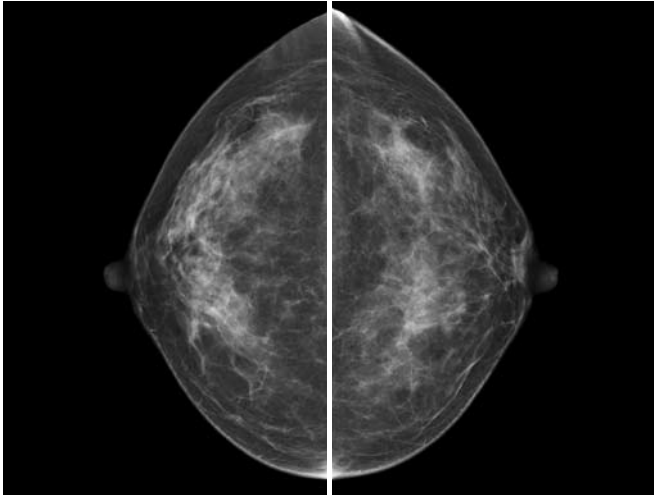
Sectra provides several dedicated compression paddles for all breast sizes, including a paddle for spot imaging. Changing compression paddles is fast and effortless; just snap them in place.

Features and benefits

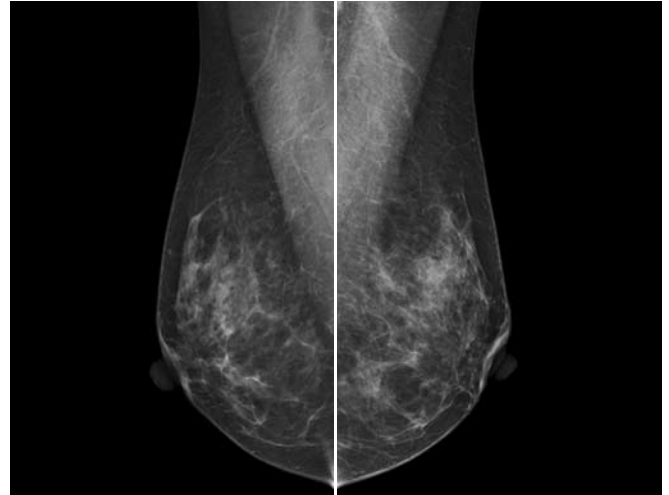
- Intuitive Graphical User Interface
- Motorized compression
- Dedicated compression paddles
- *SmartAEC*
- Large field of view: 24x26 cm
- Automatic angulations -100° to $+180^{\circ}$
- Large Source Image Distance: 66 cm
- Maneuvering buttons in four locations
- Dedicated shortcut keypad
- Ergonomic height-adjustable worktable



IMAGES YOU CAN TRUST



Small breast acquired on a 24 x 26 cm field of view. Left and right CC.



Small breast acquired on a 24 x 26 cm field of view. Left and right MLO.

The lowest radiation dose on the market

Sectra strongly supports the ALARA* guidelines, since dosage reduction is vital in mammography screening involving examination of large numbers of healthy women.

Sectra MicroDose Mammography delivers excellent image quality at the lowest radiation dose on the market. This is achieved through Sectra's unique detector, based on photon-counting technology, which provides exceptional advantages in image quality and dose reduction.

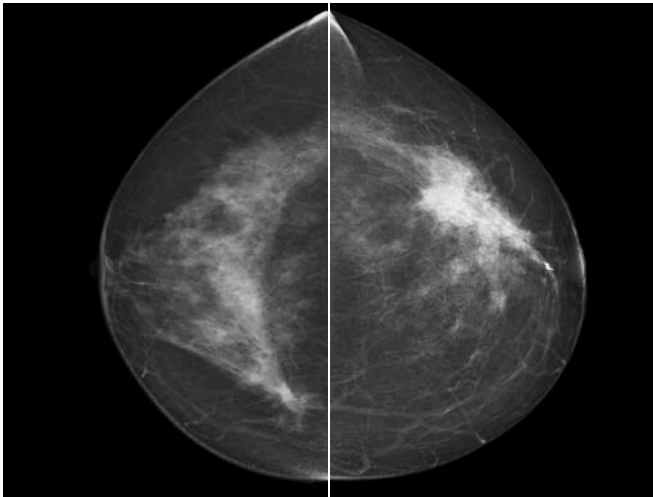
Focus on early detection

The key factor to reduce breast cancer mortality rates is early detection of small lesions. This requires high quality equipment with excellent image quality. Sectra MicroDose Mammography delivers unsurpassed System DQE* and has a pixel size of 50 μm , which provide excellent image quality even at low doses.

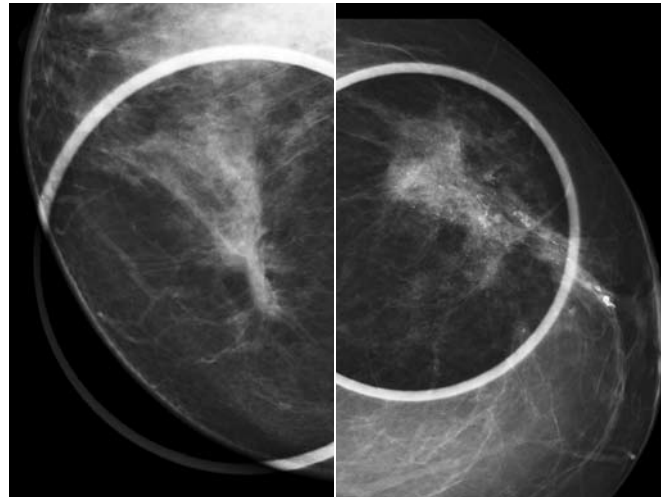
*ALARA is an acronym for As Low As Reasonably Achievable. This is a radiation safety principle for minimizing radiation doses and releases of radioactive materials by employing all reasonable methods. ALARA is not only a sound safety principle but is a regulatory requirement for all radiation safety programs.

*System DQE (Detective Quantum Efficiency) is composed of Detector DQE, Scatter DQE and Energy Weighting. Combined, these three factors describe the dose efficiency for the complete mammography system. Read more about the unsurpassed System DQE of Sectra MicroDose Mammography in: Aslund M, Cederstrom B, Lundqvist M, Danielsson M. *Scatter rejection in multislit digital mammography*. Med Phys. 2006 Apr; 33(4): 933-40.

Sectra MicroDose Mammography
– excellent image quality at the lowest radiation dose on the market



Small breast acquired on a 24 x 26 cm field of view. Left and right CC.



Spot images of mass with associated micro-calcifications acquired on a 24 x 26 cm field of view. Left and right CC.

Photon-counting technology excels

Sectra's photon-counting technology provides exceptional advantages. Since X-rays are digital by nature and Sectra's detector counts them one by one, a direct capture of individual X-rays occurs. This means no electronic noise in the image and no information loss in conversion steps as is the case in all other digital detector technologies.

Photon-counting is the fastest detector technology on the market. There are no "ghost images" that could interfere with image interpretation, since the detector is fast enough to be ready when the next photon arrives.

The image is acquired by a multi-slit scanning technology that eliminates the scattered radiation and significantly reduces the noise level in the image. The multi-slit scanning technology ensures that images are totally reliable, with no dead pixels that could obscure micro-calcifications.

Future-proof solution

Sectra is leading the way in the search for new ways to detect breast cancer and offers unique advantages compared with competing digital technologies. Sectra MicroDose Mammography is the perfect platform for such advanced applications as photon-counting tomosynthesis and contrast-enhanced dual-energy mammography.

Benefits of photon-counting

- High photon absorption
- Unsurpassed System DQE
- No dead pixels
- No electronic noise
- No ghost images
- Elimination of scattered radiation

Service and support

With a local presence in your country, Sectra takes pride in offering the highest level of customer attention. A dedicated and competent service and support team, with access to advanced service technologies, ensures that your needs are met.

Sectra's superior service offering is designed to provide safe, reliable and efficient operation of your mammography solution. Sectra can take care of everything or just be available behind the scenes, making sure that your unique situation is attended to in the way you want.

Remote monitoring

Sectra's efficient and cost-effective monitoring tool makes it possible to detect and solve potential problems even before customers have noticed any effects. Sectra remotely monitors the performance of key components in its products, and can thus intervene before any problem situation occurs.

State-of-the-art, now and in the future

Users of Sectra's mammography solutions can rest assured that the system is state-of-the-art now and will remain so in the future. Upgrades and ongoing customer training guarantee that users always benefit from the most recent technology and the most efficient tools.

Sectra's close cooperation with universities and other research centers, such as the Royal Institute of Technology in Stockholm, helps the company to adapt to the future before it arrives.





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