



DIGITAL SCREENING MAMMOGRAPHY SYSTEM

MAMMO-RPd

OPTIMAL SCREENING MACHINE — HIGH IMAGE QUALITY

Mammo-RPd, a state-of-the-art digital scanning mammography system. A unique device developed to meet the requirements of patients, physicians, and laboratory assistants, ensuring reduced effective doses and high quality of images.

The small pixel size of the digital detector (less than 50 μm) and high spatial resolution (**not less than 10 line pairs/mm**), as well as decreased effective doses, render this machine suitable for both screening and diagnostic examinations.

The unique combination of high-quality imaging (10 line pairs/mm) and low radiation doses provide a basis for quality screening to detect early stages of breast cancer



RADIOLOGIST AND TECHNICIAN WORKSTATIONS

The software allows performing breast imaging studies in accordance with the WHO-approved protocol.

Two medical high-resolution monochrome monitors (not less than 20 inches, 5 megapixels) provide the physician with comfortable conditions for accurate diagnosis.

A medical printer can print images on film, retaining high image quality.

The remote control unit available at the technician workstation is a full-function computer with modern DICOM compatible software. The operator is able to enter patient data, adjust image settings, expose, control imaging quality, and perform digital processing, image storage and transmission.

Integration into the computer network of the health center is also possible.



Set of various sized compression plates, including plates for target imaging



STATE-OF-THE-ART TECHNOLOGIES TO REDUCE RADIATION DOSE FOR PATIENTS

The system employs the fan-shaped X-ray beam scanning technology, which allows significant reduction of scattered radiation. This technology makes the use of an anti-scatter grid unnecessary, thus reducing the effective dose by more than 50% compared with conventional mammography machines while retaining image quality, which is a key factor for screening mammography.

This achievement has been due to the use of state-of-the-art technologies when developing a detecting device that has both high detective quantum efficiency (DQE) and extremely low electronic noise.

The effective equipment and the dedicated digital mammography software help produce images of superior quality. Image analysis and image processing are fully focused on diagnostic purposes and guarantee optimal visualization and detection of micro calcifications and lesions.



ERGONOMIC DESIGN



Any angle of stand rotation, automatic C-arm locking in the standard positions, and height compensation during rotation

Emergency Stop button

Compression control with a set of pedals

X-ray protective movable transparent screen

Specially designed handles are convenient for the patient and facilitate patient positioning

Movement control from two control panels located on the sides of the machine

Support with C-arm	yes
Focal length	62 cm
Motorized rotation of the C-arm	-180° to +180°
Block of pedals for compression conducting	yes
Digital detector	
The size of matrix	4300 × 6250 pixels
Spatial resolution	10 line pairs/mm
Pixel size	50 μm
X-ray tube	
X-ray tube with rotating anode, rotation speed	10 000 rpm
Size of focal spot	0,1/0,3 mm
Nominal anode input power	4/16 kW
Anode heat content	300 kHU
High-frequency X-ray power supply device	
Capacity	3 kW
Anode current range	30—140 mA
Voltage range	20—35 kV
The system of aimed survey	yes
X-ray screen	yes
Lead equivalent	0,5 mm
Workstation of radiologist	yes

The manufacturer reserves the right to make changes in complete, technical parameters and design of the equipment.

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**THE MOBILE DIGITAL MAMMOGRAPHY
CABINET BRINGS SCREENING
TO RESIDENTS
OF HARD-TO-REACH AREAS**



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SEP-2021