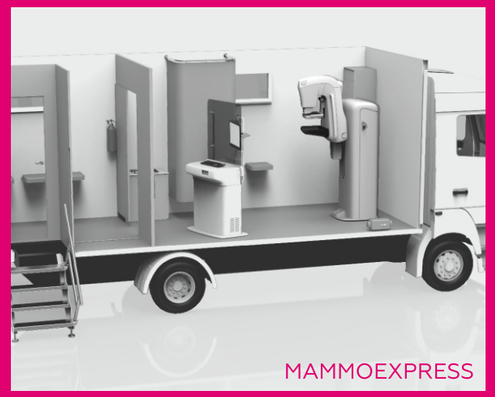
MOBILE HEALTHCARE

MAMMOSCAN is designed with a high level of resistance to the environmental factors can be experienced in a mobile facility. This provides the users with a high level of reliability that is not usually available in flat panel systems. As a result a van-based MAMMOSCAN version provides an exceptional amount of clinical value at a moderate cost.

FULLY INTEGRATED SOLUTION

MAMMOSCAN can be delivered as a complete diagnostic unit, including Review Workstation, PACS server, NAS storage, dry imager and CAD software. With this configuration, MAMMOSCAN can be used at any hospital or imaging center as fully-functional stand-alone diagnostic unit.



HIGH-VOLTAGE GENERATOR TECHNICAL FEATURES

Description	Value
Type	high-frequency
Maximal power, kV, min.	10
Output voltage range, kV	from 20 to 49
Pitch, kV, min.	1
Current range, mA	from 5 to 230
Exposure range mA · sec	from 0,1 to 1200

X-RAY SOURCE ASSEMBLY TECHNICAL FEATURES

Feature	Value	
Tube / housing / manufacturer	XM 1016 T / C340/ IAE	RAD-70 / MAM-RAD 105H / Varian
Focal spot, mm	0,1 / 0,3	0,3
Anode type	rotating	rotating
Anode material	RTM	RTM
Max. thermal storage, kHU	300	600
Anode nominal voltage, kV	40	49

X-RAY IMAGE RECEPTOR TECHNICAL FEATURES

Description	Value
Type	CCD-TDI, scintillator CsI
Detector sensitive area, mm	221,2 x 6,9
Image, max. size, mm	221 x 300
Max. image format, elements	4096 x 5555
Detector pixel size, µm	27 x 27
Resolution, line pair/mm	20
Analog-digital converter, bit	16

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FULL-FIELD DIGITAL MAMMOGRAPHY SYSTEM

MAMMOSCAN

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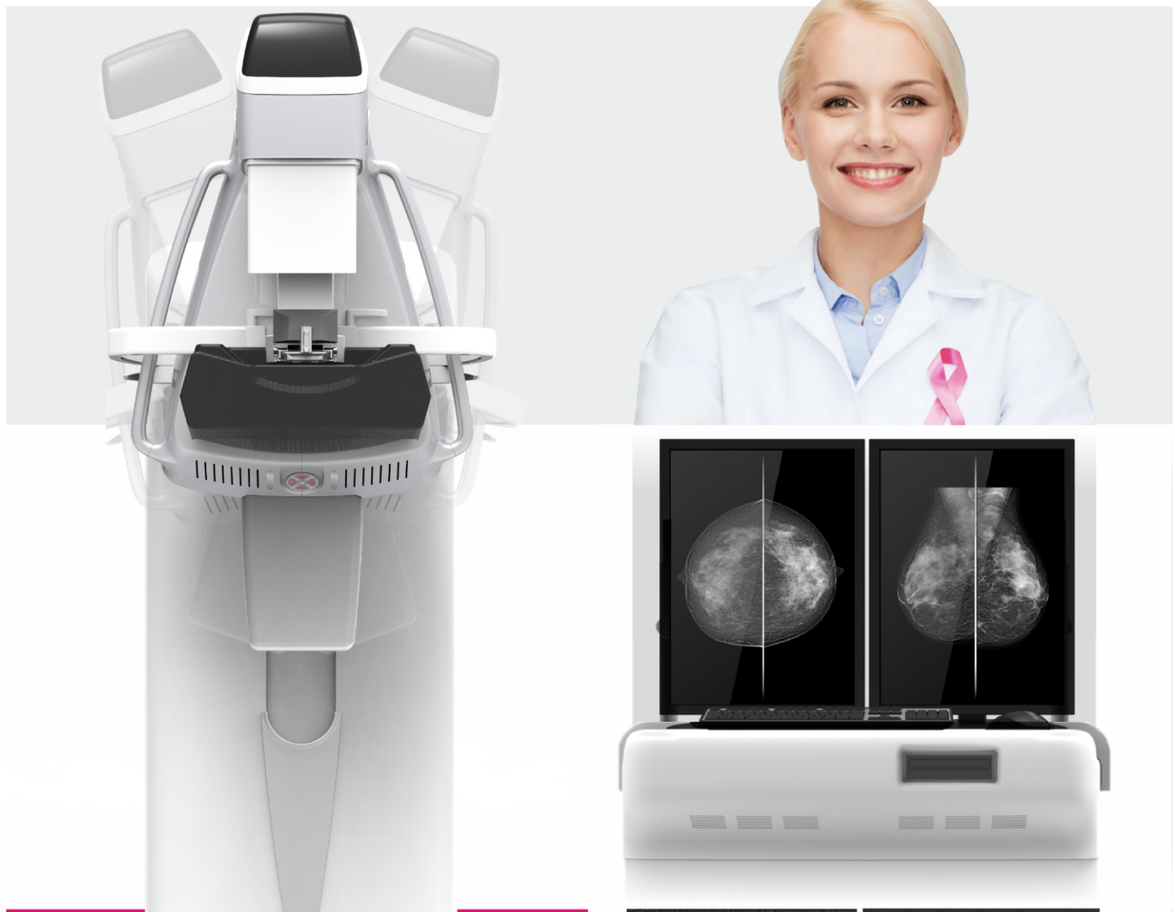
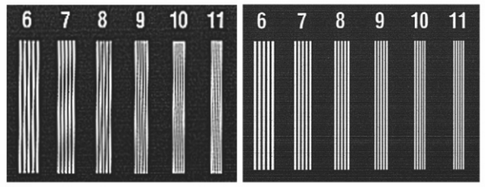
from ideas to solutions



The award winning design together with its advanced scanning technology allows the patient to have a more effective as well as a more pleasant scanning experience.

MAMMOSCAN offers the most effective full field digital mammography solution on the market with its low dose and high definition imaging.

The robust and flexible design of MAMMOSCAN unit results in it being available as a fixed solution or as part of a flexible mobile solution and also can be supplied with a biopsy option.



Example of standard definition image

Example of high definition image with the MAMMOSCAN

HIGH DEFINITION IMAGING ENSURES ACCURATE BREAST CANCER DETECTION

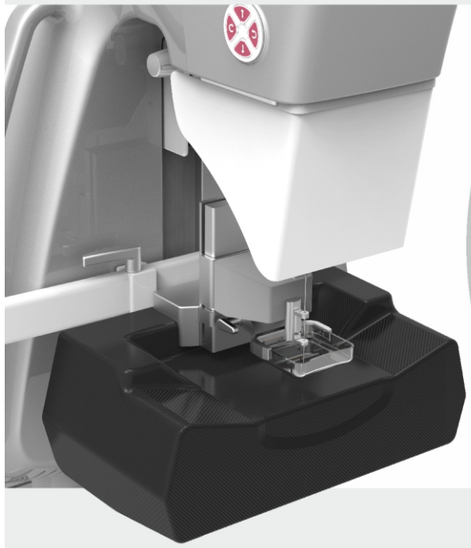
With 27 microns diagnostic resolution, MAMMOSCAN provides better visualization of the breast thus ensuring more accurate detectability of tumors and microcalcifications. Spatial resolution of 20 line pairs per millimeter offers significant add-on value to the diagnostic process compared to other available digital mammography systems.

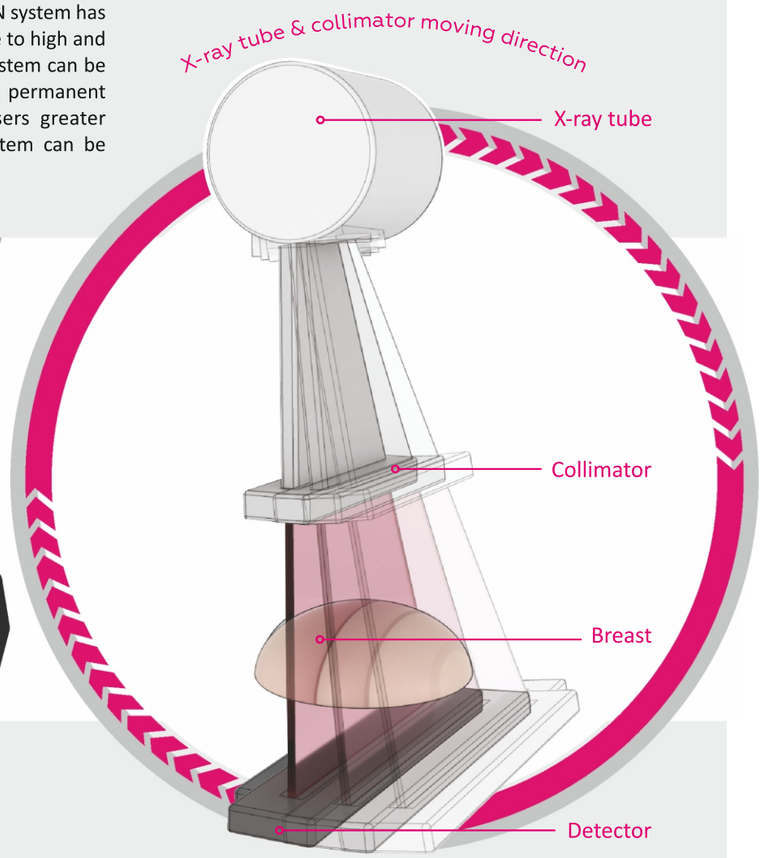
Red Dot Design Award

DETECTOR DESIGN RESULTS IN LESS ENVIRONMENTAL SENSITIVITY

The detector developed for MAMMOSCAN system has the great advantage of not being sensitive to high and low temperatures, this means that the system can be installed in locations that are not under permanent temperature control. This gives the users greater flexibility in the facilities where the system can be installed.

Scanning technique uses a thin beam to reduce the radiation.





ADVANCED SCANNING TECHNIQUES REDUCES THE PATIENT DOSE

MAMMOSCAN uses its patented slot-scan technology, which efficiently rejects the scattered radiation with the result of reduced radiation and improved resolution. In most mammography systems the radiation scatter increases the level of noise on the image.
This needs to be compensated for by adding an anti-scatter grid. This can then result in an increase in higher exposure factors, to maintain the exposure to the detector, and of course the breast, when the grid is inserted. This is not required by MAMMOSCAN system resulting in a lower dose of radiation for the patient.

AUTOMATED EXAMINATION PROCESS INCREASES THE WORKFLOW

The motorized movements with isocentric rotation, combined with customizable presets of the screening and diagnostic workflow significantly reduce the examination time. The positioning control panels which are designed to be accessible from all sides of the system, including the top part, increases the flexibility for lateral positioning. The automatic decompression feature releases the patient breast compression release for additional comfort.

MAMMOSCAN

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