

MO Series Mammography X-ray Equipment

(MO-50 DR) Technical Specification:

Item	Technology Parameter	
Generator	Inverter frequency	50kHz
	Exposure kVp	20-35kVp
	Exposure mA	Small focus: 1-200mA (20-30kV)
		1-180mA (31-35kV)
	mAs	Large focus: 1-640mA (20-30kV)
		1-500mA (31-35kV)
X-ray tube	Small focus: 1-130mAs (20-30kV)	
	1-100mAs (31-35kV)	
	Large focus: 1-300mAs (20-24kV)	
	1-400mAs (25-35kV)	
X-ray tube	Material of mammography target	RT (Tungsten + Rhenium) TZM (Molybdenum + Titanium +Zirconium)
	Focus	Small focus: 0.1mm, Large: 0.3mm
	Anode rpm	3000rpm 50Hz
Image system	Anrad detector, Canada	
	Material	Amorphous Selenium
	Resolution	2016×2816 (18×24 cm)
		2816×3584 (24×30 cm)
	Imaging area	17.2×23.9 cm (18×24 cm)
		23.9×30.5 cm (24×30 cm)
Image access time	<1.4 s (18×24 cm), <1.1s (24×30 cm)	
Imaging time	<15 s (24×30cm)	
Mechanical system	Focus image distance	66.2cm
	X-ray tube vertical moving range	618-1323cm



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Design and specifications subject to change without notice.

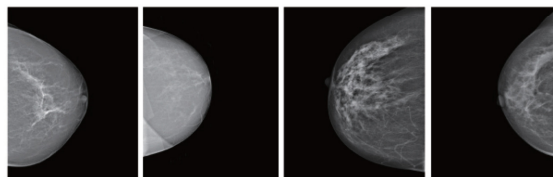
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MO-50DR

DIGITAL MAMMOGRAPHY

X-RAY DIAGNOSTIC MACHINE



HIGH IMAGE QUALITY AND RELIABILITY



The Full Field Digital Mammography X-ray Machine is complete mammography solutions optimized for digital imaging in breast cancer screening and diagnostic procedures .

AMORPHOUS SELENIUM



Amorphous selenium is the most advanced technology to produce the highest signal/noise ratio and offers greater efficiency compared to other known technologies. With amorphous selenium the X Radiation is transformed directly into electric charges without relying on an intermediate step to convert X-ray energy to light. So the direct detection avoids a light diffusion effect that degrades image quality, produces a clear signal profile and preserves the image sharpness.

GEOMETRIC MAGNIFICATION



With MO-50DR a device for geometric magnification(1.5x or 2x factor) without anti-scatter grid is available. In order to reduce dose a carbon fiber free structure has been designed with automatically selected small focus once fitted.

ACR DISPLAY



A tagging keyboard for is placed over the detector. Integrated auxiliary display shows C-arm inclination, ACR projections, compression force selected/applied, breast thickness and laterality selection.

BYM



Isocentric C-Arm that allows all breast projections without moving the patient and without adjusting the height of the C-Arm. If an isocentric C-Arm is already fitted, the MO-50DR is upgradeable with digital stereotactic biopsy device BYM3D.

BYM 3D



A reliable solution for diagnostic application with Full Field digital stereotactic biopsy.
Free "procedure" for image acquisition.
3D view of the scout image with marker positioning set with marker depth.
No markers number limit.
Automatic positioning of biopsy device.
Data base management of biopsy devices.
Choice of needles limited according to the adaptor mounted on system.
Automatic reckoning of adaptor for biopsy device.
Acquisition in the same study of both images for scout and for biopsy.
Maximization function of the reachable area by the biopsy device .

CAD COMPUTER AIDED DETECTION



MO-50DR can be integrated with an optional Computer Aided Detection(CAD) mammography system. This software uses artificial intelligence algorithms for the identification of potential lesions on mammograms. Results are shown over the original images using different symbols according to lesion typology(masses or microcalcification).

VIEWING AND REPORTING



As option is also available a professional workstation for medical image presentation and processing. Based on an innovative concept of display presentation and workspace configuration. It is inclusive of
Workstation with DVD Recorder.
Software for images management and processing.
Very high resolution 5 MPixel Dual Headed Digital Flat Panel.
LCD Colour Service Display System.
DICOM 3.0 MG Conformity.
HIS-PACS-RIS Interface.



Excellent service

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