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Xenox S200

Full field digital mammography system

The Xenox S200 is an advanced and reliable full field digital mammography system with image acquisition station. It is equipped with a transparent protection screen for the operator and is upgradeable with a stereotactic biopsy accessory device. The motorized +/-15° rotation of the Iso-centric C-Arm assures accurate, fast and easy workflow.



FEATURES

- Csl Indirect Conversion detector 24x30 cm format (recommended for van and hostile environment installation)
- Optional Direct conversion technology a-Se detector for excellent quality and low dose
- Automatic Collimation and filtration according to the installed compression paddle
- Iso-centric c-arm
- Fully motorized movement
- Auxiliary display showing Compression force, C-Arm rotation angle, Compressed breast thickness Laterality, Projection, ACR prefixes and suffixes

FEATURES

- OPTIONAL DEVICE FOR GEOMETRIC MAGNI-FICATION with x1,5/x2 variable or x1,8 fixed
- Tube Thermal Unit display and active protection.
- H.V. generator with kV closed loop and line Feed forward compensation
- LATERAL CONTROL PANEL On preferred side of mammography unit
- FOOT-CONTROLS FOR MOTORIZED COM-PRESSION OPTIONAL MULTIFUNCTION FOOT-CONTROLS
- Microprocessor controlled technology with unique safety features
- Tube Thermal Unit display and active protection
- Technical display for self-test and defective block identification, firmware release, exposure counter and last exposure time/date.
- Diagnostic functions like as Selectable service functions on LCD Display for hardware testing of each specific board with input status display, single status display and ON/OFF function
- Top Cover Carbon fiber
- Interactive microprocessor control panel with graphic display. Messages to the operator in several languages selectable during installation

- Automatic Exposure Control (AEC) select the best technique in function of effective breast density evaluated by pre-exposure
- Dose calculator
- Compression paddle movement motor driven or manual with fine adjustment by double rotating controller
- Compression paddle descent speed proportionally decreasing compressing the breast for a gentle compression
- Maximum Compression Force Safety Device
- Compression paddle release after exposure selectable from control panel, automatic or manual for bidimensional biopsy
- Acquisition console with 21,3" 2 MP CO-LOUR MONITOR (optional 3MP)
- Transparent anti-X protective barrier for operator (Pb equivalence>0.34 mm at 35 kV)
- FULL DICOM 3.0 MG with IHE conformity
- Patient information local Data Base with 25.000 images storage.
- QC tools based on EUREF protocol
- Optional stereotactic biopsy accessory device

OUTSTANDING

HIGH PERFORMANCE

The main target of the Xenox S200 is to obtain excellent image quality in order to allow sharp visualisation of lesions and areas of interest minimizing the dose given to the patient. It is suitable both diagnostic as well as for "screening" programs carried out always with utmost accuracy. Excellent imaging technology combined with a modern, ergonomic and winning design improves efficiency and elevates the standard of care.

EXCELLENT IMAGE QUALITY AND LOW DOSE

Xenox S200 feature the second generation of Direct conversion technology a-Se detector. It provides 85 micron pixel size chose as the best compromise between highest spatial resolution and lowest noise. The combination with the X-ray tube with Tungsten anode and Ag filter result is a significant decrease in the dose delivered to the patient.

ADVANCED AUTOMATIC EXPOSURE CONTROL

Automatic Exposure Control (AEC) with full automatic kV/mAs, manual kV/auto mAs in function of effective Breast Density evaluated by pre-exposure X-Ray pulse or breast thickness for fast operation and/or special cases with silicone prosthesis. Dose limits according to European Protocol for Dosimetry and EUREF protocol.

ERGONOMICS AND USER FRIENDLY

SternMed has payed particular attention in designing Xenox S200 in order to make it extremely easy to use for the operator and comfortable for the patient

ADVANCES DYNAMIC COLLIMATION SYSTEM

The mammography system automatically selects the proper collimation format according to the type of exam, to the format and position of the compression paddle.

MAGNIFICATION SUPPORT

A device for geometric magnification (1,5x or 2x factor) complete of cassette holder and without anti-scatter grid is optionally available. In order to reduce dose a carbon fiber free structure has been designed with automatically selected small focus once fitted.

FULLY MOTORIZED ISO-CENTRIC C-ARM

XENOX S200 is supplied with motorized rotation of C-Arm (pre-selectable and fine adjustment angles). Iso-centric C-Arm that allows all breast projections without moving the patient and without adjusting height of the-Arm. The Iso-centric rotation eliminates the-Arm height adjustment when doing Cranio-Caudal and lateral projections. In this configuration the XENOX S200 is upgradeable with stereotactic biopsy device Iso-centric 3D.

STEREOTACTIC BIOPSY

The Iso-centric 3D device represents a reliable add-on solution for performing FFD stereotactic biopsies. An easy and quick move upgrades the XENOX S200 to stereotactic mode providing a comfortable working space between the tube head and the biopsy device. The motorized +/-15° rotation of the Iso-centric C-Arm assures accurate tube shift activated by means of dedicated push buttons. Lesions can be reached also in difficult positions with great precision in targeting, placing the C-Arm at the most appropriate inclination/height. Acquisition Station and includes a database for selecting needles, biopsy guns and VABs associated with the respective user selectable codes.

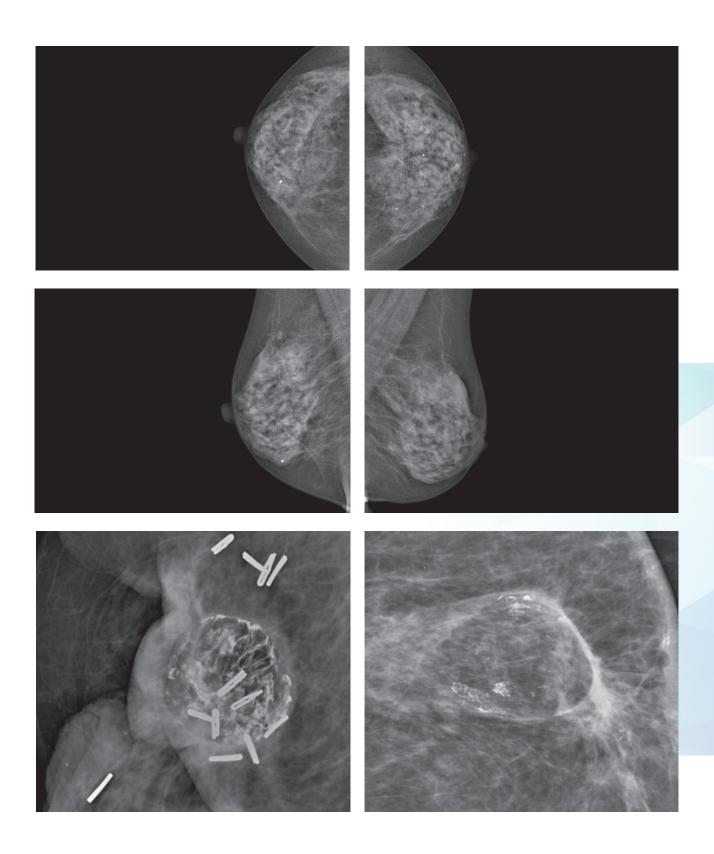
GENTLE AI COMPRESSION SYSTEM

The cutting-edge AI compression system, both motorized and manual, has been designed to guarantee optimal breast compression with minimal patient discomfort. In the case of motorized compression, driven by the pair of foot-controls, the exclusive microprocessor-controlled FTSE (Function of Tissue Strength Evaluation) automatically adjusts the optimal force to apply based on the specific density of the breast to be examined. The operator can also perform a manual compression with precise adjustment using two rotary controls located on C-arm.

EVERYTHING UNDER CONTROL

Displays located above the rotary controls allow viewing the set compression force and that actually applied, and the thickness of the compressed breast. Auxiliary display show all the information of the current procedure: Compression force, C-arm rotation angle, Compression breast thickness, Laterality, Projection, ACR prefixes and suffixes.

EXCELLENT CLINICAL IMAGES



TECHNICAL SPECIFICATIONS Xenox S200 | SternMed Full field digital mammography system

Hz 115 Vac +/10% 50/80 Hz (optorau)	POWER SUPPLY		Standard x-ray tube (IAE XI	M1016 T)
Commert absorption Commert	Line voltage	220/230/240 Vac +/-10% 50/60	Anode rotation speed	3000 rpm 50 Hz 10000 rpm 150
Current absorption 30 A peak Service Anode Heat Storage Capacity South-Hurzer Anode Heat Storage Capacity South-Hurzer Continum Premarenty install, (EC 66601-1) Maximum Anode Heat Go kHU/min (750 W)		Hz 115 Vac +/-10% 50/60 Hz		Hz (optional)
Current absorption 30 A peak Anode Heat Storage Capacity 300 kHU (275 kt)		(optional)	Target material	Tungsten Focal track: RT (Tungs-
Anode Heat Storage Capacity 300 kHU (225 kJ)	Power	6.6 kVA (0.5 kVA stand-by)		ten+Rhenium) Bulk: TZM (Molib-
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·		·		
31 to 34 kV) 1-320 mAs (35 kV)	Safety timer	10 s		
				31 to 34 kV) 1-320 mAs (35 kV)

1-250 mAs (from 36 to 40 kV)

TECHNICAL SPECIFICATIONS Xenox S200 | SternMed full field digital mammography system

Standard x-ray tube (IAE XM1016 T)		
X-Ray Window	0,5 mm Beryllium	
Housing X-Ray protection	>=0,5 mm Pb equivalent	
Inherent filtration	0,0 mm Al IEC 522/1976	
HVL measured at 28 kV	>0,3 mm Al equivalent	
Total filtration at 28 kV	>0,5 mm Al	
TUBE ASSEMBLY THERMAL (OVERLOAD PROTECTION	
With active temperature	Upper limit temperature 65° outside	
sensor under main	tube assembly. HU and °C display	
CPU control	available in technical. M	
FILTERS		
Rhodium (50 pm thickness)	0,51 mm Al eq @ 28 kV, measured	
	with W target	
Silver (50 pm thickness)	0,55 mm Al eq. @ 28 kV, measured	
	with W target	
AUTOMATIC COLLIMATOR		
Light source	LED (Class 1 Device-320 pW)	
Light beam	Switch ON by push-button or auto-	
	matic when operating compression	
	(selectable by service) Electronic	
	timer	
Light intensity	>= 150 lux	
Light beam	according to IEC 60601-2-45:	
collimation accuracy	203.8.5.4	
Mirror	with automatic out of field funct.	
Formats (with device for	24x30 cm and 10x14 cm for mag-	
geometric magnification)	nification	
Protection of	Polycarbonate screen to keep pati-	
examination field	ent's face out of X-ray beam	
LATERAL CONTROL PANEL		
Position	On preferred side of mammography	
	unit (on request)	
Technology	Microprocessor controlled with	
	unique safety features, all functions	
	under active operator control	
Display Type	GRAPHIC LCD (240x128 dots)	
Error messages	In several languages selectable (opti-	
	onally acoustic messages available)	
Special features	Tube Thermal Unit display and	
	active protection. Technical display	
	for self-test and defective block	
	identification, firmware release,	
	exposure counter and last exposure	
	time/date.	
Diagnostic functions	Selectable service functions on LCD	
-	Display for hardware testing of each	
	specific board with input status	
	display, single status display and	
	ON/OFF function	

DIGITAL FLAT PANEL DETECTOR	
Detector Technology	a-Si TFT Array + PIN Photodiode
Case Dimensions	35,9x34,6 cm
Top Cover	Carbon fiber 0.1 mm Al
	equivalent
Chest Gap	3,9 mm
Cooling Method	Air + Fan (integrated) NOTE: the
	detector blowers will typically
	create a difference of around
	4-5 degrees with respect to the
	ambient temperature
Digitalization type	Logarithmic
Pixel Pitch	85x85 pm
Active Area	23,9x30,5 cm
Image Matrix	2816x3584=10092544
Image Depth	16 bit
Image Size	~ 20 MB
Fill Factor	>80 % geometric
MTF (Modulation Transfer Function)	85% @ 1 lp/mm 20% @ 5 lp/mm
DQE (Detector Quantum Efficiency)	50% @ 1 lp/mm 20% @ 5 lp/mm
Maximum Spatial Resolution	7 lp/mm
Nyquist Frequency	5,88 lp/mm
Signal to Noise Ratio (SNR) (with	15,19 (28,5 kV-10 mAs)
45 mm PMMA Phantom)	
Ghost Image Factor (point n° 2b.2.4.5	0.05
of "European Guidelines")	
Detector Read Time	< 1,1 s (24x30 cm)
Image Display Time on Acquisition	< 15 s
Station	
Time Between Two Images	< 20 s
Acquisition	
GRID	
Туре	Linear, vibrating
Interspace Material	Carbon Based Polymer
Bucky factor	2,1 (W/Rh); 1,92 (W/Ag)
Ratio	6:1
Lines/cm	36
Contrast factor	1.54

TECHNICAL SPECIFICATIONS Xenox S200 | SternMed full field digital mammography system

LINEAR, VIBRATING		"INTELIGENT COMP" COMPRES	SION SYSTEM
Carbon Based Polymer	Auto kV / Auto mAs (Zero Point	Compression Paddle Movement	Motor driven or manual with
	Mode) Manual kV / Auto mAs		fine adjustment by double rota-
	(One Point Mode)		ting controller
2,1 (W/Rh); 1,92 (W/Ag)	Dual mode: PRE and FAST PRE:	Standard Compression Paddles	24x30 cm shifted for large
	tissue composition based (para-		breasts 18x24 cm shifted for
	meters evaluated by short X-Ray		normal breasts
	exposure) FAST: compressed	Optional Compression Paddles	18x24 cm with lateral shifting
	breast thickness based		for normal breasts 9x21 cm
6:1	Mosaic of 96 areas of detector		straight for magnification 07,5
	automatically selected in functi-		cm shifted for spot contact
	on of breast size and projection		examination 18x24 cm shifted
1.54	Average Glandular Dose (AGD)		for bidimensional biopsy
	according to: "D.R. Dance et al."	Compression Paddle Holder	Fast mechanical unlock
Data visualization (mGy)	On display of Control Panel/On	Maximum free space available	325 mm with shifted Compres-
	Acquisition Station	between Compression Plate and	sion Paddles In Magnification
Method of recording	Image Header (DICOM)	top cover of Potter-Bucky	Mode (straight compression
AGD with a 4 cm PMMA phantom	1,216 mGy		paddle) MAG. X 1,5 = 231 mm
Dose Rate (28 kV-80 mAs)	36,63 R/min without Compression		MAG. X 2 = 131 mm
	Plate 29,80 R/min with Compres-	Compression Force	Adjustable from 70 to 200 N
	sion Plate	Compression Force Display	Effective applied force with 1 N
			resolution
C-ARM		Compression Paddle	4 cm/s at the start Proportionall
F.D.D. (Focus Detector Distance)/S.I.D.	66 cm	Descent Speed	decreasing compressing the
Manual rotation	+/-180° with disk brake		breast
Motorized rotation (optional)	+/-180° (CW, CCW continuous	Maximum Compression Force	Triple: electronic, electro-mecha
	to any position)	Safety Device	nical, mechanical
Projection Preset positions	N° 5 Programmable (LAT, OBL,	Soft Compression paddle release	Selectable from control panel
	CC, OBL, LAT)	after exposure	
Speed of Rotation	11°/s with acceleration and	Compression paddle aluminium	< 0.2 mm Al (0.135 mm Al~
	deceleration ramp	equivalence	30 kV)
Display of angle rotation	On Control Panel On Auxiliary	CONTROLLERS FOR MANUAL C	OMPRESSION
	Display	Number and Type	Two rotating wheels with cen-
Motorized Movement	Vertical		tral push-button on both sides
Range of Vertical Movement	From 43 to 128 cm (travel of		of C-Arm
(from Floor)	85 cm)	FOOT-CONTROLS FOR MOTORI	ZED COMPRESSION
Speed of Vertical Movement	5 cm/s	Number and Type	Two with two pedals and
AUXILIARY DISPLAY AND TAGG	ING KEYBOARD		push-button
Display Type	3 digits (7 segments) + 18 LED	Multifunction foot-controls	Two with four pedals and one
Tagging Keyboard (ACR protocol)	Ten pushbuttons: R/L laterality and		push-button (optional)
	prefixes/suffixes	Control Actions	Vertical movement of Compres-
Information	Compression force C-Arm		sion Paddle Motor driven
	rotation angle Compressed breast		compression unlock Vertical
	thickness Laterality, Projection,		movement of C-Arm (optional)
	ACR prefixes and suffixes		· · · · · · ·

TECHNICAL SPECIFICATIONS Xenox S200

OPTIONAL DEVICE FOR GEOM	IETRIC MAGNIFICATION
Type	Gridless, interchangeable with
	Potter-Bucky
Magnification Ratio	x1,5/x2 variable or x1,8 fixed
Small Focus Selection	Automatic once fitted
OPTIONAL DEVICE FOR GEOM	IETRIC MAGNIFICATION
Туре	Gridless, interchangeable with
	Potter-Bucky
Magnification Ratio	x1,5/x2 variable or x1,8 fixed
Small Focus Selection	Automatic once fitted

ACQUISITION WORKSTATION

ANTI-X PROTECTIVE BARRIER	
Type	Integrated
Pb equivalence	> 0,34 mm (@ 35 kV)
Dimensions	857x2003x640 mm
Glass thickness	20 mm
COMPUTER	
Operating System	Windows 7 Professional 64-bit
CPU	Intel Core i7 2600 3,4 GHz
RAM	8 GB DDR3-1333
HDD (removable)	n°1 TB SATA for Operating Sys-
	tem, Acquisition Software and
	Toolkit Software n°1 TB SaTA
	for studies storage (~ 25.000
	images)
DVD Recorder	48x SATA DVD +/-RW DL
Power Pack	400 W
UPS (Uninterruptible Power Supply)	650 VA
Air Flow	178 m3/h
STANDARD 2 MP COLOUR MO	NITOR
Technology	TFT LCD IPS
Screen Size (diagonal)	TFT LCD IPS 21,3" (541 mm)
Screen Size (diagonal)	21,3" (541 mm)
Screen Size (diagonal) Display Resolution (pixels)	21,3" (541 mm) 1600 x 1200
Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch	21,3" (541 mm) 1600 x 1200 270 pm
Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle	21,3" (541 mm) 1600 x 1200 270 pm 178° horizontal and vertical
Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle Response Time	21,3" (541 mm) 1600 x 1200 270 pm 178° horizontal and vertical 20 ms
Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle Response Time	21,3" (541 mm) 1600 x 1200 270 pm 178° horizontal and vertical 20 ms 440 cd/m2 max (250 cd/m2
Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle Response Time Brightness	21,3" (541 mm) 1600 x 1200 270 pm 178° horizontal and vertical 20 ms 440 cd/m2 max (250 cd/m2 DICOM calibrated) 1500:1 typical
Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle Response Time Brightness Contrast Ratio	21,3" (541 mm) 1600 x 1200 270 pm 178° horizontal and vertical 20 ms 440 cd/m2 max (250 cd/m2 DICOM calibrated) 1500:1 typical
Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle Response Time Brightness Contrast Ratio OPTIONAL 3 MP COLOUR MOI	21,3" (541 mm) 1600 x 1200 270 pm 178° horizontal and vertical 20 ms 440 cd/m2 max (250 cd/m2 DICOM calibrated) 1500:1 typical
Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle Response Time Brightness Contrast Ratio OPTIONAL 3 MP COLOUR MOI Technology	21,3" (541 mm) 1600 x 1200 270 pm 178° horizontal and vertical 20 ms 440 cd/m2 max (250 cd/m2 DICOM calibrated) 1500:1 typical VITOR TFT LCD IPS
Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle Response Time Brightness Contrast Ratio OPTIONAL 3 MP COLOUR MOI Technology Screen Size (diagonal)	21,3" (541 mm) 1600 x 1200 270 pm 178° horizontal and vertical 20 ms 440 cd/m2 max (250 cd/m2 DICOM calibrated) 1500:1 typical NITOR TFT LCD IPS 21,3" (541 mm)
Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle Response Time Brightness Contrast Ratio OPTIONAL 3 MP COLOUR MOI Technology Screen Size (diagonal) Display Resolution (pixels)	21,3" (541 mm) 1600 x 1200 270 pm 178° horizontal and vertical 20 ms 440 cd/m2 max (250 cd/m2 DICOM calibrated) 1500:1 typical NITOR TFT LCD IPS 21,3" (541 mm) 2048 x 1536
Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle Response Time Brightness Contrast Ratio OPTIONAL 3 MP COLOUR MOI Technology Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch	21,3" (541 mm) 1600 x 1200 270 pm 178° horizontal and vertical 20 ms 440 cd/m2 max (250 cd/m2 DICOM calibrated) 1500:1 typical NITOR TFT LCD IPS 21,3" (541 mm) 2048 x 1536 212 pm
Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle Response Time Brightness Contrast Ratio OPTIONAL 3 MP COLOUR MODITECT (Diagonal) Technology Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle	21,3" (541 mm) 1600 x 1200 270 pm 178° horizontal and vertical 20 ms 440 cd/m2 max (250 cd/m2 DICOM calibrated) 1500:1 typical VITOR TFT LCD IPS 21,3" (541 mm) 2048 x 1536 212 pm 176° horizontal and vertical
Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle Response Time Brightness Contrast Ratio OPTIONAL 3 MP COLOUR MOI Technology Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle Response Time	21,3" (541 mm) 1600 x 1200 270 pm 178° horizontal and vertical 20 ms 440 cd/m2 max (250 cd/m2 DICOM calibrated) 1500:1 typical NITOR TFT LCD IPS 21,3" (541 mm) 2048 x 1536 212 pm 176° horizontal and vertical 24 ms
Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle Response Time Brightness Contrast Ratio OPTIONAL 3 MP COLOUR MOI Technology Screen Size (diagonal) Display Resolution (pixels) Pixel Pitch Viewing Angle Response Time	21,3" (541 mm) 1600 x 1200 270 pm 178° horizontal and vertical 20 ms 440 cd/m2 max (250 cd/m2 DICOM calibrated) 1500:1 typical NITOR TFT LCD IPS 21,3" (541 mm) 2048 x 1536 212 pm 176° horizontal and vertical 24 ms 800 cd/m2 max (400 cd/m2

MAMMOGRAPHY VIEWING WORKSTATION

COMPUTER	
Operating System	Windows 7 Professional 64-bit
CPU	Intel Xeon Quad Core 3,00 GHz
	10 MB cache
RAM	8 GB DDRIII-1600 MHz
HDD	2x1 TB SATA (7.000 rpm) - ~
טטוו	25.000+25.000 images
Graphic Poard	
Graphic Board	ATI MED X 3900 (Very High Re-
	solution Display System) NVIDIA Quadro NVS 310 (Colour Service
D\/D D	Monitor)
DVD Recorder	8x SATA DVD +/-RW DL
UPS (Uninterr. Power Supply)	650 VA
COLOR SERVICE MONITOR	150
Technology	LED
Screen Size (diagonal)	21,5" (16:9)
Display Resolution (pixels)	1920 x 1080
Pixel Pitch	265 pm
Viewing Angle	90° vertical/65° horizontal
Response Time	5 ms
Brightness	200 cd/m2 typical
Contrast Ratio	1000:1 typical
5 MP B/W DISPLAY	
Number	2 monitors
Technology	TFT Monochrome LCD Panel
Screen Size (diagonal)	(IPS)
Backlight	21,3" (541 mm)
Display Resolution (pixels)	LED
Pixel Pitch	2048 x 2560
Viewing Angle	165 pm
Response Time	176° horizontal and vertical
Brightness	25 ms (On/Off)
	1.200 cd/m2 (typical) 500 cd/m2
Contrast Ratio	(recommended for calibration)
ENVIRONMENTAL CONDITION	IS 1.200:1
Operating conditions (24 h)	
	Temperature + 15° C / + 35° C
	Relative humidity 30%/75% Ba-
	rometric pressure 700 hPa/1060
Heat dissipated in max load	hPa
condition of 35 kV 500 mAs	316 kCal/h
(1 shot every 5 minutes)	

MAMMOGRAPHY VIEWING WORKSTATION

CLASSIFICATION (IEC 60601-1)	
Protection against electric shock	Class I, with type B applied parts
Protection degree according to	IPX0
IEC 529 standard	
Degree of safety in the presence	Not suitable for use in the pre-
of flammable anesthetics mixture	sence of Flammable Anesthetics
with. air or with oxygen or with	Mixture with air or with oxygen
nitrous oxide	or with nitrous oxide
Mode of operation	Continuous operation with
	intermittent loading

