

**ANKE - The Reliable Medical Equipment Manufacturer**



**ASR-4000E Mammography System**

## **Specifications**

## ASR-4000E Mammography System Specifications

No.:	Technical features	Descriptions
<b>1</b>	<b>Flat Panel Detector</b>	
1.1	Detector material	Amorphous silicon
1.2	Detector size	24cm×30 cm
1.3	Pixel matrix	4096×3072
1.4	Spatial resolution	6.49lp/mm
1.5	A/D	16 bit
1.6	Pixel size	77μm
1.7	Time for full image	5-10
1.8	DQE	28kV, 0.5mGy. Mo/Mo ~56%.....(@4 lp/mm)
1.9	MTF	>56% (3.0lp/mm) >25% (6.0lp/mm)
<b>2</b>	<b>High Frequency Voltage Generator</b>	
2.1	Input voltage	180–264Vac, single phase, 50Hz/60Hz
2.2	Maximum power	5kW
2.3	Voltage range	20kV-40kV
2.4	Current range	10mA-200mA
2.5	Exposure time	10-10000ms
2.6	Generator frequency	52kHz
2.7	Tube current time product range	1-630 mAs
<b>3</b>	<b>X-ray Tube Assembly</b>	
3.1	Focus size	Small focus 0.1mm, large focus 0.3mm
3.2	Anode angle	15°
3.3	Anode material	Molybdenum or RT-TZM
3.4	Window material	beryllium
3.5	Anode heat storage capacity	300kHU

<b>4</b>	<b>Exposure System</b>	
4.1	AEC (According to the thickness and the density of the breast, the Compression automatically choose filtration materials and exposure parameters, KV and mAs)	
4.2	Manual Exposure mode (Setting: KV, mA and ms)	
<b>5</b>	<b>C-arm System</b>	
5.1	C-arm lifting range	620mm-1420mm
5.2	C-arm rotation range	-160° - +180°
5.3	Tube rotation range	-22° - +22°
5.4	SID	65cm
<b>6</b>	<b>Collimator</b>	
6.1	Control	Auto
6.2	light	LED / > 160Lux
6.3	Size (light field)	24×30/18×24cm/5×18cm/0×0
6.4	Filtration material	Mo/AL for Molybdenum X-ray tube or Ag/Al for X-ray RT-TZM X-ray tube
<b>7</b>	<b>Compression Systems</b>	
7.1	Compression mode	Auto/Manual
7.2	Compression release	Manual/Auto
7.3	Compression paddle	24×30cm
7.4	Magnification	Support 1.8x (Optional)
7.5	Compression precision	±20N
7.6	Maximum range	5-280mm
7.7	Compression range	0N-200N
7.8	Pressure/thickness display mode	Digital
<b>8</b>	<b>OC Workstation Hardware</b>	
8.1	Computer system hardware	CPU: 4 cores 3.2GHz; RAM: 8.0GB; Hard disk 1000GB; DVD read/burn; 19-inch LCD monitor.

8,2	Operating system	Windows 7 or above edition
<b>9</b>	<b>OC Workstation Software</b>	
<b>9.1</b>	<b>Patient Information Management</b>	
9.1.1	Case management functions including patient information, checking and image management	
9.1.2	Standard DICOM3.0 Worklist query service, can query and download information from HIS /PACS	
<b>9.2</b>	<b>Image Acquisition</b>	
9.2.1	Integrated X-ray generator control interface, can adjust X-ray generator parameters directly from the software	
9.2.2	Exposure (For high voltage generator and flat-panel detector linkage control, exposure, detection, image acquisition)	
9.2.3	DICOM image generation (combination of image pixel, patient information, exposure information)	
9.2.4	The patient parameters preset of each placement	
9.2.5	AEC Functions	
9.2.6	Image processing	
9.2.7	Real time adjustment of the wide window position	
9.2.8	Real time clip of ROI	
9.2.9	Real time of horizontal and vertical mirror, rotate function	
<b>9.3</b>	<b>Image Processing</b>	
9.3.1	Real-time display system status	
9.3.2	Window width and level	
9.3.3	Positive and negative conversion, image scaling, flip, mirror, rotate, zoom display	
9.3.4	Original image display, full screen, histogram display, window adjustment	
9.3.5	Shape annotation functions, including drawing lines, rectangles, polygons and arrows	
9.3.6	Text annotation function	
9.3.7	Real time prompt system can store the number of images	
9.3.8	Display patient information/check information/equipment information, image information	

9.3.9 1×1, 1×2, 2×2 varieties of display mode

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**9.4 Image output**

9.4.1 Standard DICOM 3.0 output laser camera, can easily select configured scheme (film size, layout) printing

9.4.2 Standard DICOM 3.0 archive service, can put the image file to the server, supports the background automatically sent

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**9.5 Reporting**

9.5.1 Report template selection and editing

9.5.2 Automatic display and modification of hospital information, inspection department information, inspection information

9.5.3 Patient information is automatically displayed

9.5.4 The image display module can be dragged to the report

9.5.5 Editing of images and diagnostic opinions

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*NOTE: ANKE reserves the right to modify the design, packaging, specifications, and options described herein without prior notice.*

*Any technical data contained in this document may vary within defined tolerances.*

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