



Digital Radiography System

Endeavour 8500

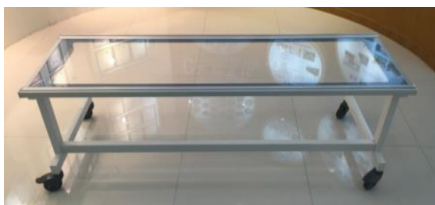
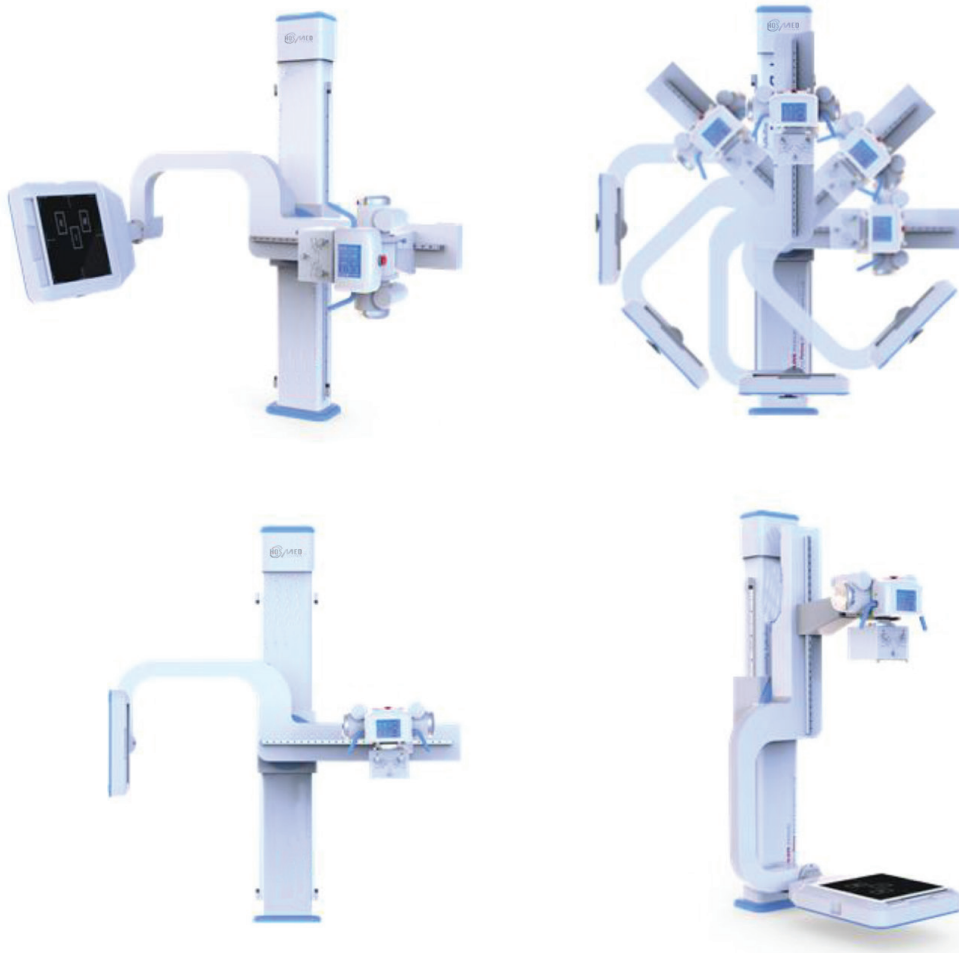


PRODUCT DESCRIPTION

Product Usage

Endeavour 8500 high frequency digital x ray equipment can meet different parts radiography, such as head, chest, abdomen, waist, lumber, thoracic, pelvis, limbs etc.

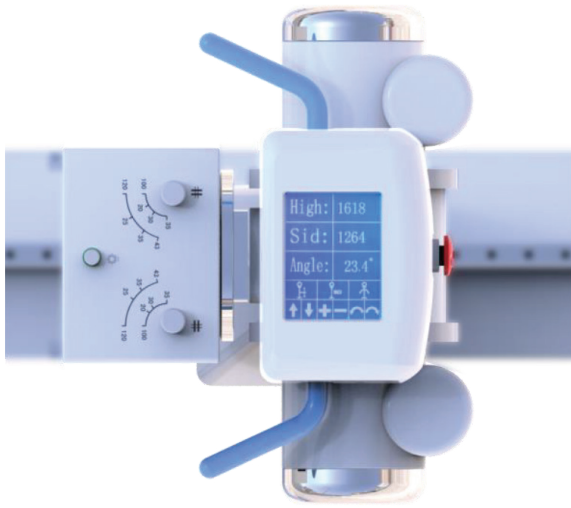
And meet different positions radiography, such as lay decubitus, normotopia, side position etc.



Item	Contents
Size of the table surface	2000*650mm
Table height	740mm(fixed)
Electromagnetic Brake Resistance	≥100N
Load capacity	≥200kg

Product Specification

High - frequency X-ray machine	Output power	50kW	
	Main inverter frequency	260kHz	
	X-ray tube	Dual -focus X -ray tube	Small focus:0.6 Large focus:1.2
		Output power	22kW/50 kW
		Anode Capacity	210kJ(300kU)
		Anode Angle	12°
		Speed of rotating anode	9700rpm
	Tube Current	10mA - 650mA	
	Tube voltage	40-150kV	
	mAs	1-1000mAs	
	Exposure Time	0.001-6.3s	
AEC	Option		
Digital Image System	Digital Detector	Field of view	17"*17"
		Pixel	3K*3K
		Ultimate spatial resolution	3.7LP/mm
		Pixel size	143um
		Output grayscale	14bit
		Imaging time	≤7s
	Image Workstation	Acquisition module	Inside enhancement module
		Image information management	Dicom image transmission Dicom film printing Dicom image storage
		U-arm	Vertical movement range Focus -screen movement range
		Mechanical structure & performance	Rotation range Detector rotation
Photography table (Optional)	Table size	2000mm*650mm	
	Table height	≤740mm	
	Transverse movement	200mm(electromagnetic lock)	
	Longitudinal movement	100mm(electromagnetic lock)	
Power supply	380V 50/60Hz		



- Advanced 2 60kHz high frequency high voltage type generator, realize 1ms instant exposure, high performance.
- Three exposure method free change: KV, mAs two adjustment, KV, mA, s three adjustment and AEC function, to satisfy different habit of different doctors.
- Rotat e double anode 0.6 1.2, with high heat capacity of 300KHU
- Digital micro processed closed loop control and malfunction alarming system to reduce the dose of X ray, protect the patients and doctors very well.
- LCD touch screen, beautiful appearance and convenience to operate.

2: Flat Panel Detector

- Apply with A Si (Amorphous silicon) Toshiba imported Flat panel detector, which could give perfect digital images directly.
- 3K×3K Acquisition matrix, 143um pixels size, and 3.6Lp/mm ultimate spatial resolution, with DQE values ≥ 70
- 17 " ×17 " Large acquisition area and with the non center processing technology, no matter the center and border, the quality of the image is the same.
- The detector could be rotated ± 45 degree along the axis direction, to satisfy the different photograph requirement of every body parts, such as Ankle joint, lateral spine
- The detector has the self protection function. It can stop to move when it detect the distance in front of the barrier.





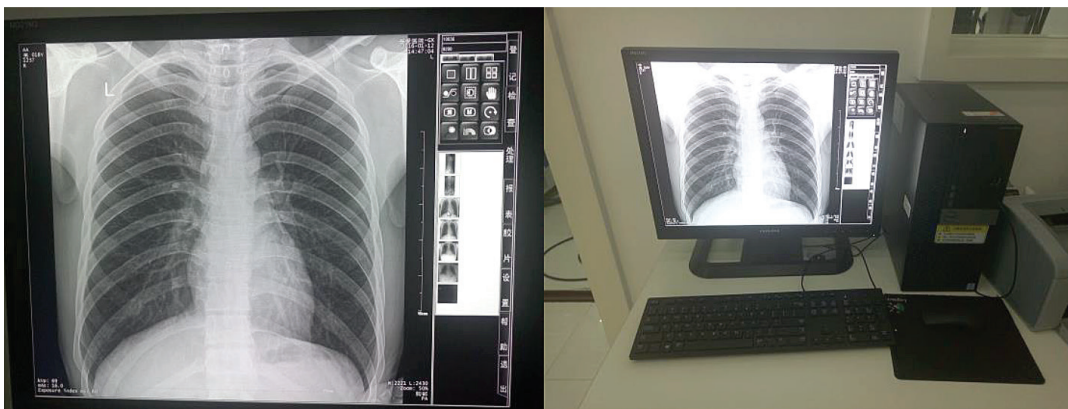
3. Digital Working Station:

- Case registration : Auto registration, be equipped with Dicom Worklist SCU. To simplify the input process for doctors, greatly reduce the amount of labour and greatly improve the working efficiency
- Image Acquisition : Automatic window adjustment, Automatic cropping, Automatic transmit.

Image Processing : Tissue equilibrium, W/L adjustment, Gamma correction, interestdistrict, reversed phase, noise reduction, smooth, sharpen, pseudo color, edge extraction, shadow compensation, filter nuclear, single window, dual window, four windows, movement, right rotated 90°, left rotated 90°, level mirror image, vertical mirror image, magnifying glass, image zooming, reset, layer information, label character, drawing label, length measurement, angle measurement, rectangular length, rectangular area, elliptic length, elliptic area.

Dicom Image Transmit, Dicom Image Storage, Dicom Image viewing, Dicom Image printing.

Convenient to connect to the PACS system



Be equipped with 19" imported LCD high resolution monitor screen the delicate and richness degree of image is far higher than the normal medical monitor. International advanced level.

Brightness and Contrast are higher than 1000NIT, far higher than the normal LCD screen of 400 NIT.

- These features can make the doctor diagnose more accurate and smooth.
- Be equipped with the microphone and remote exposure control. The doctor can control outside the operating room.
- Be equipped with various set of infrared facilities to protect the machine from the mis operation of the doctors.
- Optional PLXF15 5 operating room. Battery power supplied, Infrared unlock
- Optional SONY, CODO NICS film printer.

5. Mechanical Movement:



Film key



Hand Controller

The self designed and man ufactured electric U arm mainframe can move up and down, and rotate in a wide range, which can satisfy the requirements of multi site photography.







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