

DIGITAL RADIOGRAPHY X-RAY SYSTEM

(Floor Mounted; Dual Column; Floating Table)

PLD6500A



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PRODUCT DESCRIPTION

1: Application:

It is suitable for radiology department, orthopedics, ward, emergency room, operating room, ICU and other departments. With flexible movement, easy operation, high efficiency, to meet the radiography for all of human body's parts, such as head, limbs, chest, spine, lumbar vertebrae, abdomen, etc.



***General Hospital (Radio Dept)**



*** Specialist Hospital (Children Hospital)**



***Community Clinics**



***Diagnostic Center ; Occupational Examination Center**

2. Movement of machine

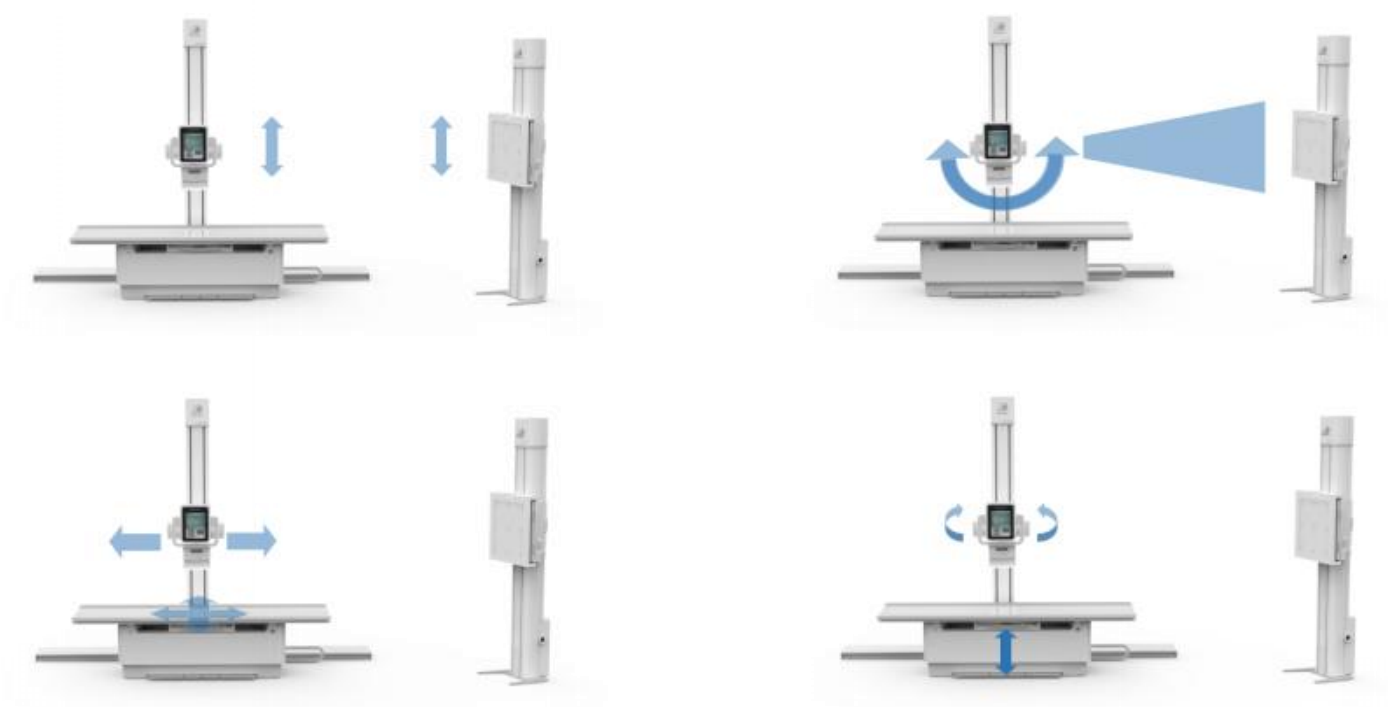


Table and tube Movement: – Elevating table

Table-side Digital touch screen control system:

Display for protocol selection, data correction and image review

Height of table top:	500m~720mm
Longitudinal travel of tube column:	2500mm
Longitudinal travel of table top:	1000mm
Transverse travel of table top:	260mm
Table dimensions: (L*W*H)	2250 x 810 mm*(500-720mm)
Tube column rotation	-180° ~ +180°
Tube up and down:	1300mm (Tube is lowest 35cm from ground)
Tube head rotation	-90° ~ +90°
Maximum load capacity of the table	200 kg
Grid	18inch*18inch, 103LP, 10:1, focal length:1.0m

Bucky stand(XPJ20C) - Manual and Motored

Range of the detector mechanism Center:	1500 mm
Distances: center of the detector to the floor	35cm
Grid	18inch*18inch, 103LP, 10:1, focal length:1.8m

3: Product Specification

1. Item	2. Content	3. Technical Parameters
Power	Voltage	380V±38V
	Frequency	50Hz±1Hz
	Electrical Power	Three phase
High Frequency High Voltage Generator	Output Power	65.5KW
	Inverter Frequency	500KHz
	Tube voltage	40kV - 150kV, 1 kv step
	Tube current	10mA - 800mA
	mAs	0.1-800mAs
Collimator	Illumination brightness	>=200Lux
	Filiter	>=1mmAL
X ray tube CANON BRAND	Model:	E7252X
	Tube Focus:big/small	1.2mm /0.6mm
	Input power	Big focus 75kW Small focus 27kW
	Target surface	12°
	Anode thermal capacity	300KHU (rotating anode)
	Anode Heat dissipation:	870W
	Tube Capacity:	1250KHU
	Filter	0.9mm AL/75KV
	Rotary anode speed:	9700rpm
	Work voltage:	40-150KV
Flat Penal Detector	Materials	A-Si(Amorphous Silicon)- CSI
	Active area	430(H)×430(V)mm
	Pixel matrix	3072(H)×3072(V)
	Pixel pitch	139μm
	Spatial resolution	3.7LP/mm
	A/D	16bit

4. Digital Working Station with software:

★ 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, interest district, 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.

★ Algorithms for image optimization according to different physiological structures and parts of the body

★ 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 medical 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.

★ Generator parameter management, Remote control the parameter of X-ray machine to expose.



5. Advantages

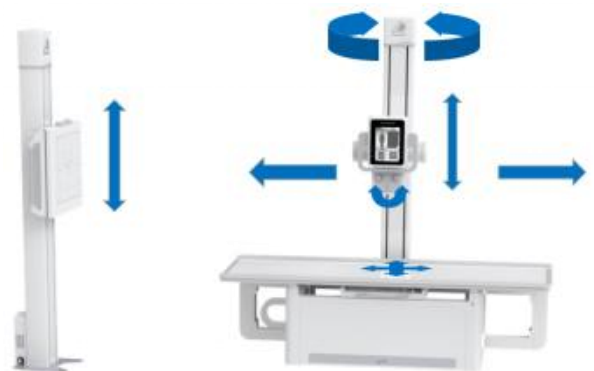
(1) . Big size touch screen on the tube

1. The display screen is synchronized with the workstation, and the operator can create a new inspection item in the computer room, which is convenient for the doctor's daily inspection and emergency.
2. Touch screen to set IMAGE and X-RAY interface. In the IMAGE interface, SID stretching range, exposure parameters , x-beam size, head rotation angle, body shape, acute Choice of diagnostic tests.
3. The X-RAY interface can display still images after filming, without the need for operators to move back and forth between the machine room and the console.



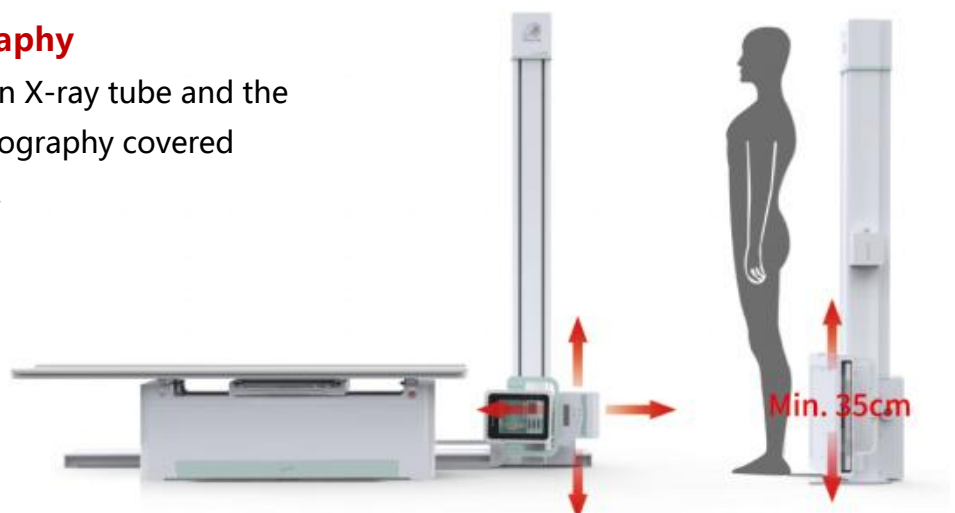
(2) Motored movement & Electromagnetic floating & Manual

- Tube up and down.
- Detector of Bucky stand up and down.
- Table Floating
- Longitudinal moving of spherical column
- Tube rotates around the column
- Tube Swing around axis



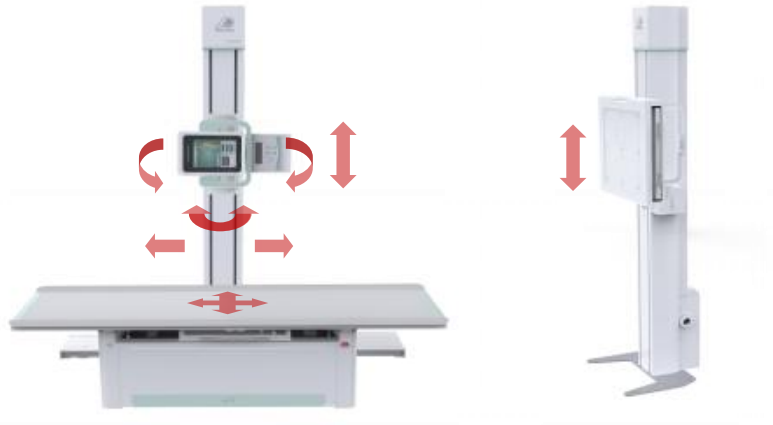
(3) Low positioning radiography

35cm minimal distance between X-ray tube and the floor , allowing low profile radiography covered by wide range tube movement.



(4) Flexible movement

- Tube up and down.
- Detector of Bucky stand up and down.
- Table top 3 dimensional moving
- Longitudinal moving of spherical column
- Tube rotates around the column
- Tube Swing around axis



(5) Removable 2 sets of grids

There are 2 set (1 m and 1.8 m) high-density wire grids are standard, removable design, no need to use wire grids when shooting children or low-dose parts, which can effectively reduce radiation damage to doctors and patients

