

PLD7600B Flat Panel Digital Radiography



Main Technical Parameters:

Item	Content	Technical Parameters
Power	Voltage	380V±38V
	Frequency	50Hz±1Hz
	Capacity	≥65kVA
	Internal Resistance	≤0.17Ω
Digital control X-ray High Voltage System (SEDECAL Brand)	Power	50KW
	Inverter Frequency	30 KHz
	Tube voltage	40kV—150kV ,continuous adjustment
	Tube current	10mA—640mA , grade adjustment
	mAs	0.1mAs—10000mAs, grade adjustment
Digital control X ray tube (TOSHIBA E7252)	Tube Focus:big/small	1.2mm /0.6mm
	Input power	Big focus 50kW Small focus 20kW
	Anode thermal capacity	210KJ
	Rotary anode speed	2700rpm
	Toshiba	FDX3543RP
	Active area	350(H)×430(V)
	Pixel matrix:	2448(H)×2984(V)
	Pixel pitch:	143 μm

Toshiba Digital Flat Panel Detector	Cycle time:	6S
	Limiting resolution	Min. 3.7 line pair/mm
	A / D transition:	16 bit
	Energy range	40 - 150 kVp
	Maximum entrance dose (low gain)	4 mR / frame
	Data output	16-bit digital output Ethernet (1000BASE - T)
	Exposure Synchronous control:	outside
	power Input:	DC 24V 2A
Bed option	Bed	SYC30
	Digital display SID, tube angle, light touch switch, SCM control, electromagnetic brake	
	Height	500mm~720mm
	Distance from FPD to bed	60mm
	Filter	South Korea microgroove, Focusing distance: 130cm, Grid density: 103L/INCH, Electric vibrator
	Movement	Four directions floating, brake without electric
	Pillar	Separate, can move 2500mm, suitable for Wheelchair and stretcher

Main Features:

PLD7600 Digital high frequency medical surgical 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.

1. Original imported high frequency host and high speed tube

◆ TOSHIBA highest inverter frequency and SEDECAL high voltage generator

Constant direct current high voltage output, it can achieve high quality monochromatic X-Ray and eliminate the harmful effect of soft ray to image thoroughly.

◆ Equipped with high performance and large capacity X-Ray tube

Adopt 0.6/1.2mm² dual focus, 300KHU large capacity and high speed X-Ray tube, it is suitable for long time and high intensity clinical examination.

◆ Intelligent high voltage control system with multiple human APR, LCD display show APR rules, and set

according patients figure, position and part automatically, it's fast and convenient.

- ◆ Computer progress control, remote operate, electric multi-lead collimator, adjust X-ray range as diagnosis need, this reduce X-ray harm for patients and atmosphere
- ◆ Have IBS, there are four choices to set KV and mA diagram. AEC offer accurate exposure for different figures and promise lowers radiation for high definition photos.
- ◆ Multi self-diagnosis program, has RS232 port, and with error indication function.

2. High definition digital image chain to ensure that minor lesions can not be passed.

- ◆ Imported DR flat panel detector, it does not need any conversion but it can finish digital photography of each position to achieve real direct digital.
- ◆ DR flat panel detector DR connected with image processor achieves low noise and rich contrast image, edge enhancement filtering device makes the edge of image more clear and sharp.
- ◆ $3k \times 3k$ gathering matrix, more than 900 mega pixel, promise high photo space definition, and good signal-no-noise ratio.
- ◆ 14''*17'' portable, and 17''*17'' fixed flat panel detector can cover whole abdomen and whole chest, no limitation for photography.
- ◆ Fast image speed, work together with DROC soft, and promote work efficiency.
- ◆ A-si stable function, low requirement for temperature, and no crystal under high temperature.

3. Equipped with new digital image system achieves rich digital image processing function

◆ Advanced digital image processing function

Pre-assembled Windows XP professional operating system and professional image processing software

Image playback: thumbnails view, sequence replay tools.

Image processing: W/L adjustment, arrows and words etc labels, angle and distance measurement, image scaling, translation, up/down conversion, left/right conversion, rotation, black and white reversal.

- ◆ Image storage: image real-time storage, DICOM image send, A shampoo Burning Studio, derived storage (choose various storage ways Bitmap, JPEG, AVI etc to be used in Word and Power-point office software, it is convenient for the doctors to write diagnostic reports and papers).
- ◆ DICOM3.0: can be connected with laser camera to print film and PACS NETWORK.
- ◆ Medical record management: database management, graphic report, support for WORKLIST.

4. Comfortable, convenient and exquisite table

- ◆ Larger SID range can meet whole body such as head, chest, abdomen, waist, limbs and different positions radiography, such as lay decubitus, normotopia, side position etc.

◆Two bed options, SYC30 can give extra long range, this promise wheelchair and stretcher radiography. And more up and down range, this way is more convenient for small figure.