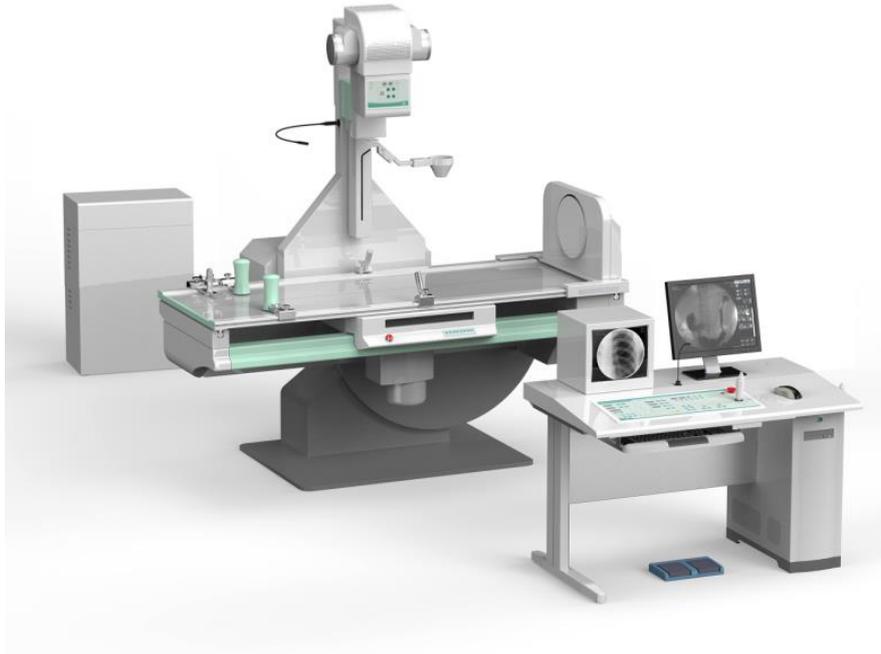# PLD5600A High Frequency Digital Gastrointestinal &DR System(630mA)

Application:

Full support perspective, gastrointestinal spot film, GI (barium meal, barium enema), orthopedic photography,

pediatrics photography, chest, urinary system angiography, peripheral angiography operations, gynecological

Photography (HSG) and many other checks, the real machine can realize all these function.

Standard Configuration:

Standard Configuration			
1	Console	KZT20	1Unti
2	Generator	FSQ50	1Unit
3	X-ray tube	E7884X	1Unit
4	Collimator	XSQ20	1Unit
5	Diagnostic table	ZDC10	1Unit
6	Image intensifier	E5830SD-P6A	1Unit

7	CCD Camera	OK-AM1530	1Unit
8	Fixed flat panel detector	FDX4343R	1Unit
	DR workstation	DRA40	1Set
8	Medica use 1 mega display	MD19M1	1Unit
10	Cables and accessories	PLD5600	1Set
Optional Configuration			
	CRT monitor	HX35H2	1Unit

Specifications:

Item	Content	Technical Parameters
Power Supply	Voltage	380V±38V
	Frequency	50Hz±1Hz
	Capacity	≥65kVA
	Internal Resistance	≤0.17Ω
High frequency high voltage x-ray generator	Power	50KW
	Inverter Frequency	30 KHz
	Tube voltage	40kV—150kV step adjustment
	Tube current	10mA—630mA step adjustment
	mAs	1.0ms—6300ms step adjustment
	Time	0.2 mAs～500 mAs
	Control Interface	40kV—120kV continuous adjust
	Control Handle	0.5mA—6mA continuous adjust
X-ray tube assembly	Tube Focus:big/small	1.2mm /0.6mm
	Input power	Big Focus/50kW Small focus/20kW
	Anode thermal capacity	300KHU
	Anode Rotation Speed	2800rpm
Micro-computer control digital	Table rotate Movement range	90°~0°~-25°

tube remote diagnostic table	Table transverse movement distance	±110mm
	Longitudinal movement distance of radiography frame and spot film device	≥780mm
	SID	1100～1500 mm
	Rotated foot pedal	two grades electric adjustment
	Size of film photography	8″×10 ″—14″×17″
	Point film segmentation way	Full film, half dividing, three parts dividing, four parts dividing
	Compressor stress	80N ～ 130N
	Rotary foot plate	±360º Infinite rotation
	Table transverse movement distance	Electric multi-leaf
	Fixed grid	Grid density: 103L/INCH, Ratio: 10:1, convergence distance 120 cm stationary type :15" ×18", changeable
Flat Panel Detector	Fixed Flat Panel Detector	Material: CsI (cesium iodide); Limiting resolution: ≥3.5lp / mm Effective area: 427 (H) × 427 (V); Pixel Matrix: 3072 (H) × 3072 (V); Pixel pitch: 139 μm A / D conversion: 14 bit

DR software	DR0C workstation software	Basic: Change the console user password, edit the user to capture images. Additional operations: add a new review, edit, check the current information, adding a new position to change the order of image acquisition, switching, multi-checking protocol manual adjustment between the exposure, automatic exposure control mode, select focal spot size, select the patient size, check heat capacity tube and choose ESA or symphony process, modify ESA (exam-specific algorithm) curve, crop the image, add notes (the Notes were sent to DICOM workstations), to add the image position marker, rotate, or flip the image, full size observed image to view the patient information and exposure dose, accept or reject the image. Image Management: change the list order in which basic patient information editing After exposure, the query history image, re-transmission history image, reprint of historical images, access image additional information, re-preview of historical images, management was rejected image, space reclamation strategy, protect images manually delete images Systems management: the user to edit, modify user password, emergency registration settings, view statistics, detector calibration, device control, output queue management, image measurement.
Image intensifier	Image Intensifier	Toshiba 9/6/4.5
Digital imaging system	high resolution CCD （digital cameras）	ultra-low-light，standard 0.4 mega-pixel

	Image Workstation Software	Basic functions: New cases; add record; modify records; query the database inspection records; query conditions are selected; delete cases; delete cases image; inquiries list of cases; worklist importing records; history checking editor; image transmission; delete images; exporting images. Perspective collection: the last frame holding; 25 / S perspective; a perspective image is saved after the end of the frame; Sequence sheet collection point: a single frame of the spot-film; a / S, 3 Zhen / S, 6 Zhen / S point sheet. Image playback function: an image display; display the next frame; Movie playback; pause; speed up playback; slow down the playback speed; display subtracted image; setting subtraction mask. Image processing functions: image selection; image zoom; image translation; image cropping; anti-color image; flip horizontal; vertical flip; image deletion; counterclockwise rotation; clockwise rotation; distance measurements; angle measurement; the arrow drawn; the left / right dimension ; remove the comment; window width and position; image enhancement; Quick tool bar. Film Printing: increase the image; insert an image; delete images; clear image; print format; film print settings; film format settings; add, modify, delete the printer settings. Report editing functions: the patient's basic information editing; previous report, previous reports import report, preview, preview page setup; add, delete, inspection equipment; increase the inspection site; modify the examination site; deleted examination site; increased Classification of Diseases; modify Classification of Diseases ; deleted classification of diseases; increased reporting template; modify report templates; delete a report template.

	Medical use gray scale display	Screen size: 19 "(48cm)
		Type: diagnostic, LCD, black and white
		Resolution: 1280x1024
		Maximum brightness: 1000cd / m

Work station

Integrated combined operation handle, can easily control the bed body, image system and the movement of rotary pedal , spot film;
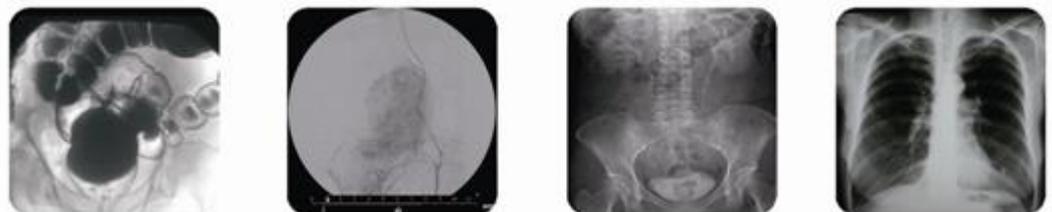
1)The table body can +90 degrees to 0 to -25 degrees rotate.
2)Humanized design of diagnosis bedside switch operation, can control the table body and imaging system movement,so that the close table inspection is convenient and easy operation;
3)Spot film device and imaging system movement range more than 720 mm,
4)Adopts the operation of the machine move, but the patient don't need move ,, can easily finish from the throat, esophagus to the lower abdomen of a series of inspections;
5)Cassette trolley can test cassette size by itself, a key can completely finish the insert piece, save space, convenient and fast;

Image processing system

0.4 mega pixels, with digital workstation
Integration configuration: graphic workstation (no PACS interface)

Digital system

1)   The system has excellent performance and high quality images, from the fluroscopy,spot film, sequence of all digital photography collected to digital subtraction angiography (DSA) image processing.
2)   Digital continuous/pulse fluroscopy: 1024 x 1024 matrix, 12 bit, 30 frames /s, with the function of LIH
High quality digital spot film: 1024 x 1024 matrix, 12 bit, with the function of AEC
Sequence of high-speed photography collection: 1024 x 1024 matrix, 12 bit, 1 to 30 frames/s
3)   Advanced digital image processing functions

4)   Pre-loaded with Windows XP professional edition operating system and the professional image processing software.

5)   Image playback: the thumbnail display and playback sequence playback tools, digital subtraction angiography (DSA).

6)   Image processing: window width/window adjustment, arrow, text annotations, Angle, distance measurement, image scaling, translation, flip, flip, rotate up and down, around black and white and reverse, subtraction mask option.

7)   Image storage: real-time image storage, DICOM image to send, copy CD, export storage (can choose various storage format Bitmap, jpeg, AVI, etc directly used in Microsoft Word and Powerpoint and other office software, convenient the doctor diagnosis report and essay writing).

8)   DICOM3.0: can connect laser camera   printing film and the PACS network.

9)   Medical records management: database management and graphic report, support the WORKLIST.