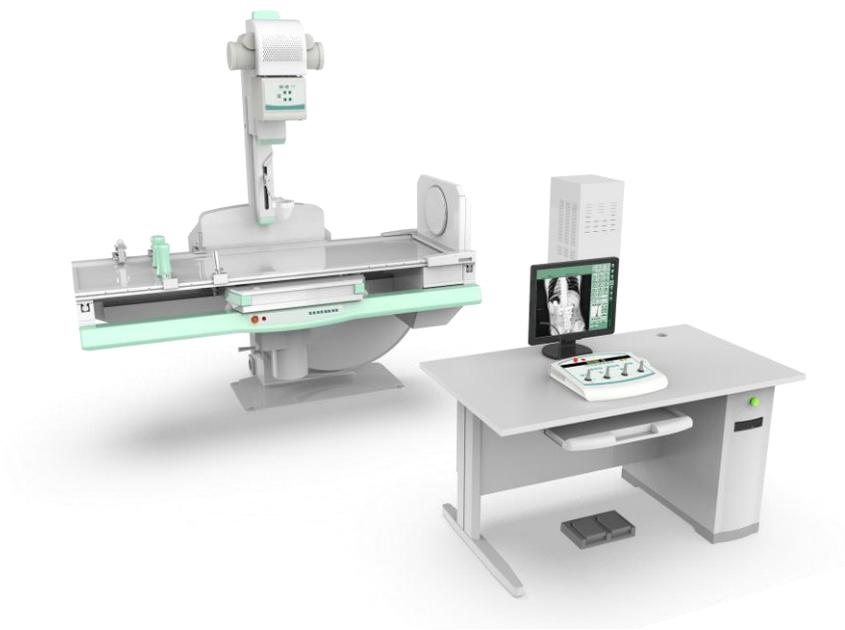


# Two million digital gastrointestinal DR (Digital Radiography and Digital Fluoroscopy System)(56kW, 710mA)

## **RF5500B**



### **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:**

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1	X ray Tube	E7252X	1Unit	Canon
2	Electrical Collimator	XSQ20	1Unit	Perlead
3	Generator	FSQ60	1Unit	Perlead
4	Flat Panel Detector	PLD-1417V	1Unit	Perlead
5	Diagnostic table	ZDC20	1Unit	Perlead
6	Console	KZT40	1Unit	Perlead
7	Intensifier	E5830SD-P6A	1Unit	Canon
8	Image acquisition workstation	DSI60	1Unit	Perlead
9	Dedicated camera	acA1920-40gm	1Set	BASLER
10	Display	U2412Mc	1Set	DELL

**Specifications:**

Item	Content	Technical Parameters
Power Supply	Voltage	380V±38V
	Frequency	50Hz±1Hz
	Capacity	≥65kVA
	Internal Resistance	≤0.17Ω
Generator (FSQ60)	Power	56KW
	Inverter Frequency	440 KHz
	Radiography Tube voltage	40kV~150kV step adjustment
	Radiography Tube current	10mA~710mA step adjustment
	Radiography Time	1.0ms~10000ms step adjustment
	Radiography mAs	0.1 mAs~900 mAs

	Fluoroscopy Tube voltage	40kV~125kV step adjustment
	Fluoroscopy Tube current	0.5mA~10mA continuous fluoroscopy
		5mA~20mA Pulse fluoroscopy
X-ray tube assembly(E7252X)	Target	Molybdenum-based lanthanum-tungsten composite
	Target angle	12°
	Nominal tube voltage	150kV
	Tube Focus: big/small	1.2mm / 0.6mm
	Input power	Big Focus/ 75kW Small focus/ 27kW
	Anode thermal capacity	210kJ(300KHU)
	Anode maximum heat dissipation	475W (667KHU/min)
	Component heat capacity	900kJ (1250KHU)
	Anode Rotation Speed	9700rpm
Collimator	Collimator field of view light	Halogen lamp, AC24V/100W
	Visible light illumination	Average illumination brightness: >100Lux
	Light field exposure time	5-45s, 5s per step
Diagnostic table diagnostic table	Table transverse movement distance	220mm
	SID	1100mm~1500mm
	Table panel equivalent filtration	≤1.2mmAl
	Point device movement range	720mm
	Table height from the ground	900mm
	Table size	2100mm×796mm
	Table rotation	+90° ~0° ~ -25°
	Minimum distance of the compressor from the table surface	≤150mm
	Compressor pressure	80N~130N
	Table bearing	135kg
Fragmentation	Whole film, two-piece, four-slice	

	Fixed grid	Grid density: 103L/INCH, Ratio: 10:1, convergence distance 130 cm stationary type :15" ×18"
Intensifier (E5830SD-P6A)	Field of view size	230mm
	Resolution	52 Lp/cm
	Conversion factor	$26 \frac{cd / m^2}{\mu Gy / s}$
X-ray camera (acA1920-40gm)	Signal to noise ratio	45 dB
	Cell size	$5.86 \times 5.86 \mu m$
	Number of valid pixels	$1920 \times 1200$
Flat Panel Detector (PLD-1417V)	Image Sensor	Amorphous silicon thin film transistor
	Pixel size	$154 \mu m$
	Effective pixel size	2816 (H) *2816 (V)
	Effective area (H x V)	434 (H) *434 (V)
	Image transmission	IEEE802.11a/b/g/n
	Gray scale	16bit
	Spatial resolution	3.25 Lp/mm (Csl)
	Energy range	40kV -150kVP
	Power input	DC24V
Image acquisition workstation(DSI60)	Computer system	1, computer: B150 PLUS motherboard; processor: Intel Core I5 6400 Memory: 8 GB DDR3 Hard disk: 1T SATA (7200 rpm) Optical drive: DVR-221CHV CD burner NIC: Intel(R)gigabit CT Graphics card: gtx1050
	Monitor	Dell (DELL) U2412Mc display

	Workstation software	<p><b>Basic functions:</b> new patient; new check; anonymous registration; WorkList search and advanced search; WorkList refresh; WorkList information import; check list; view image; film print;</p> <p><b>The collection part is divided into gastrointestinal collection and DR collection functions:</b></p> <p>Gastrointestinal collection function: bed selection; patient shape selection; specific examination protocol selection; gastrointestinal and contrast protocol selection; selected protocol list; real-time image noise reduction selection; real-time image enhancement selection; single frame storage; continuous perspective storage; Frame exposure storage; sequence exposure storage; real-time image horizontal flipping; real-time image vertical flipping; generator perspective state switching; perspective time accumulation; fluoroscopy time clearing; ABS function switch;</p> <p><b>DR acquisition function:</b> window width window position adjustment; 90° rotation to the left; 90° rotation to the right; horizontal mirroring; vertical mirroring; image negative; cropping frame; exposure parameter setting; stadium focus switching; exposure mode selection; ionization chamber selection ; exposure actual dose value; system status indicator.</p> <p><b>Image viewing function:</b> image zooming; partial zooming; original size; recovery window size; image grid display; 90° left rotation; 90° rotation to the right; horizontal mirroring; vertical mirroring; text logo; line logo; angle logo;</p>
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**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;

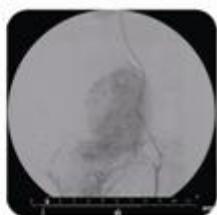
### Image processing system



**2 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.