

Digital Radiography and Fluoroscopy Equipment (MULTI-FUNCTIONS DRF)

PLD8700



Configuration		
1	Generator	1 set
2	X-ray Tube	1 set
3	Collimator	1 set
4	Tilting Table	1 set
5	Digital Dynamic Detector	1 set
6	High Density Grid	2 sets
7	Workstation(including table)	1 set
8	<i>Rotating foot pedal</i>	<i>Optional</i>
9	<i>Mobile console trolley</i>	<i>Optional</i>
10	<i>AEC</i>	<i>Optional</i>
11	<i>DAP</i>	<i>Optional</i>
12	<i>Auto Stitching</i>	<i>Optional</i>

Application:

Meet the **radiography** diagnose for all of human body's parts, such as head, limbs, chest, spine, lumbar vertebrae, abdomen, etc.

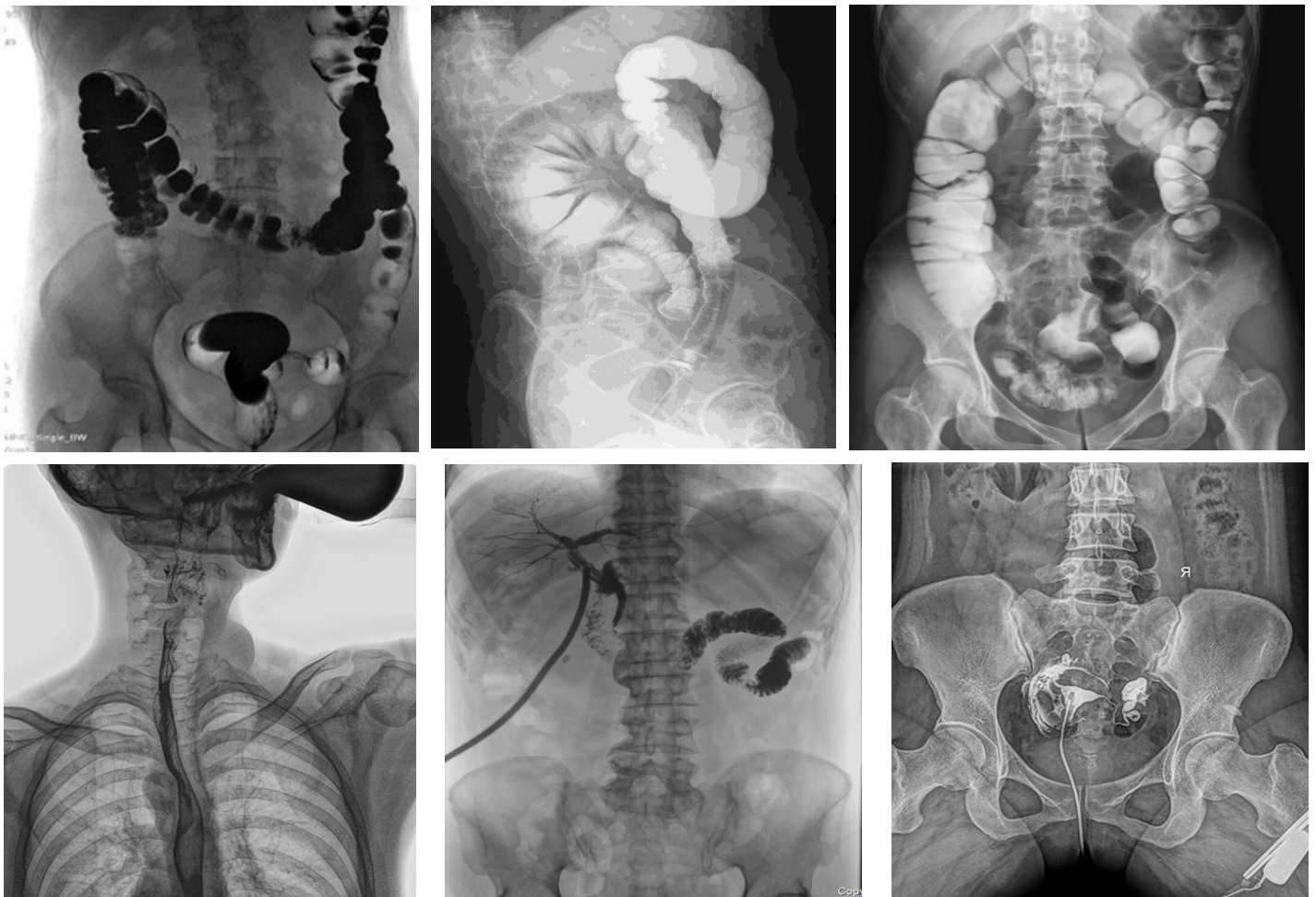


Application:

Digital fluoroscopy: applicable to all parts of the body fluoroscopy (such as chest fluoroscopy, abdominal fluoroscopy, etc.), The dynamic acquisition speed can be up to 30 frames/s. Used in digestive, urology, gynecology and so on.

Digital Gastrointestinal: suit for gastrointestinal angiography, such as esophageal angiography, upper digestive tract angiography, whole digestive tract angiography, etc.

Digital Angiography: suit for a variety of angiography, such as oral cholecystography, intravenous cholangiography, T-tube angiography, retrograde cholangiopancreatography (ERCP), intravenous pyelography (IVP), hysterosalpingography(HSG), myelography. etc.



Features:

High frequency dynamic generator



Self-developed high frequency dynamic generator, **provide both radiography and fluoroscopy working mode;**

Highly precise adjustment of exposure parameters (kV, mA and s) for stable and homogeneous radiation emission.

1. Output power: **65.5KW**
2. High Working Frequency: **500kHz**
3. Maximum Tube Voltage: **40- 150KV(radiography) / 40-125kV(fluoroscopy)**
4. Maximum Tube Current:**10-800mA(radiography)/5-20mA(pulsed fluoroscopy)**

Dynamic Flat Panel Detector with High Frame Rate



High resolution images without geometric distortion for precise clinical diagnosis.

- 1.The large FOV: **427*427mm**
2. Pixels: **3072*3072**
3. Pixel Size: **139μm**
4. Grey Scale:**16 bits**
5. **Highest acquisition speed: 30 frames/second**

Double high density grids as standard (1m and 1.8m)



Removable grids for low dose examinations. Suitable for dose sensitive patients like children

High thermal capacity X-ray tube (Canon brand)



High thermal capacity X-ray tube ensure long time working hours

1. Rotating anode: **9700rpm**
2. Dual Focus: **0.6/1.2mm**
3. Anode Thermal Capacity:**400kHu**

Features:

Automatic electric collimator

- 1- Quickly select and preset the desired FOV, saving time in positioning;
- 2- One key switches the beam range, efficient and convenient;
- 3- Automatically adjust the beam size according to different body position, more intelligent and efficient.

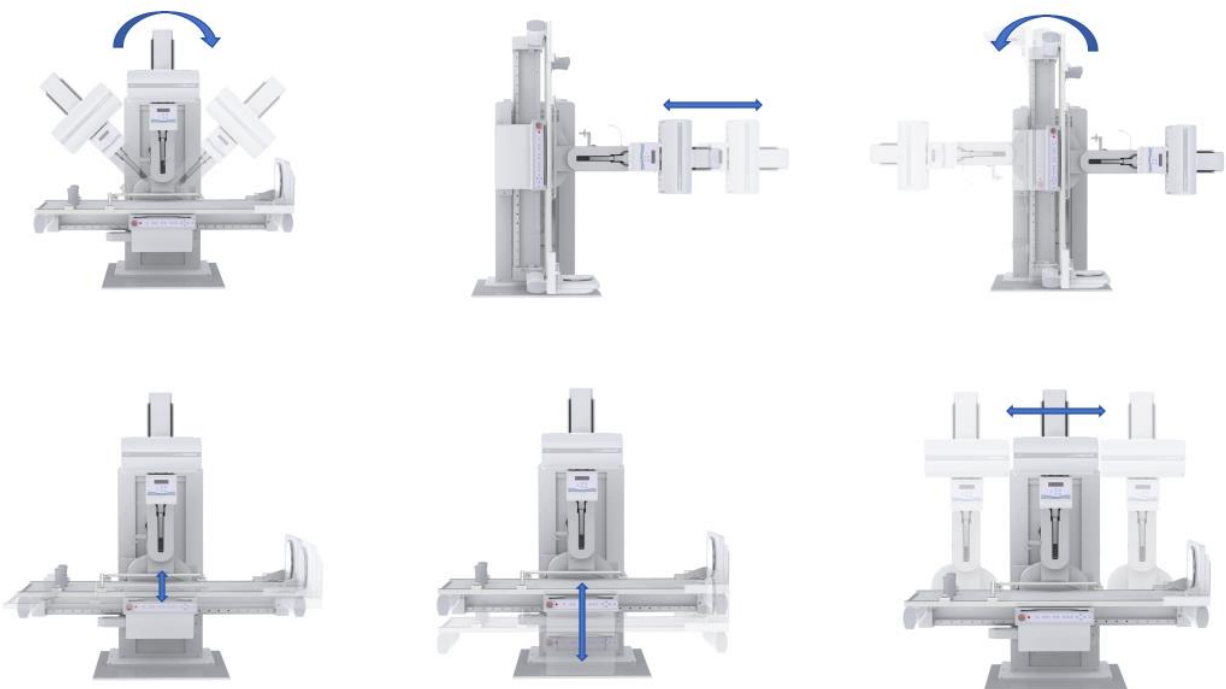


Workstation

- 1- **One button to turn on/off** the machine, simplifying overall workflow, saving preparation time;
- 2- **Standard DICOM 3.0 interface**, supporting film printing, output, storage, barrier-free docking hospital PACS system.
- 3- Intelligent image acquisition and processing workstation, with integrating registration, radiography control, image processing and transmission, report printing and other functions.
- 4- **Humanized menu design** to optimize the workflow.
- 5- **UPS** is available for workstation



Intelligent Multi-functional Mechanical Design



Clinical positioning

Gastrointestinal imaging can display the overall morphology of the intestines and accurately locate intestinal lesions.



The compressor can allow the contrast media to fully diffuse, and further observe the local mucosa, tube wall, or the relationship between lesions and the surrounding area

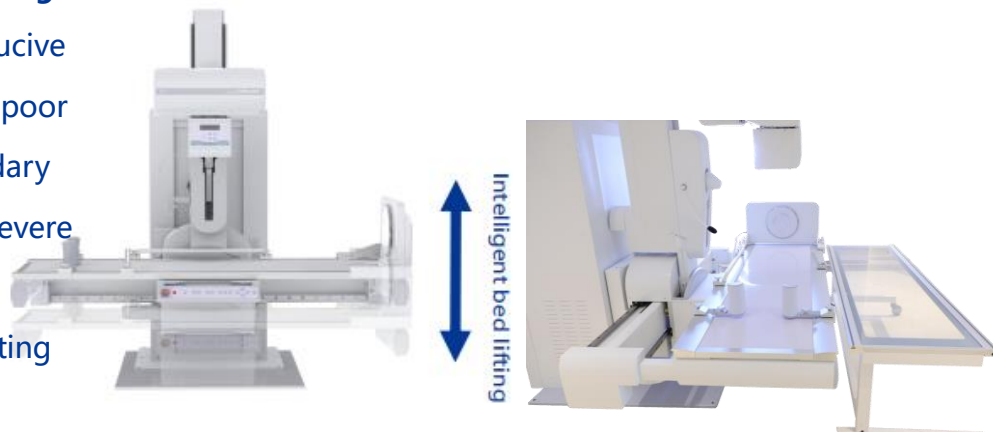


The table can be tilted to - 30°, which greatly extends the clinical application. For example **IVP, IVU, HSG, lower limb venography** and **other retrograde pyelography**.



The unique and practical table **lifting** function(**800mm**), not only conducive to radiography and patients with poor mobility but also avoiding secondary injuries in the case of acute and severe patient transfer.

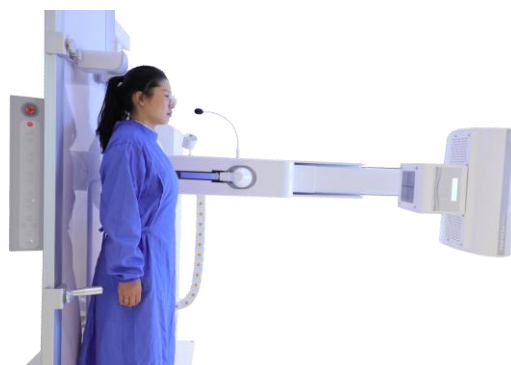
Operators can benefit from adjusting the height during near-table operations.



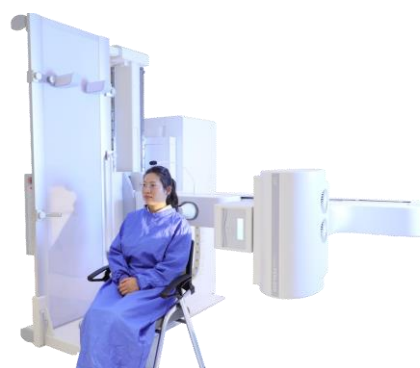
The tilt angle of the tube column is **-45° to 45°**, which can meet the radiography needs of various clinical application, for example, the **calcaneus axis**.



The **SID** can be extended to **1.8m**, allowing standard chest X-rays to be taken without the need for an additional bucky. The large-scale SID extension, even a wheelchair can be easily handled.



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Optional Functions:

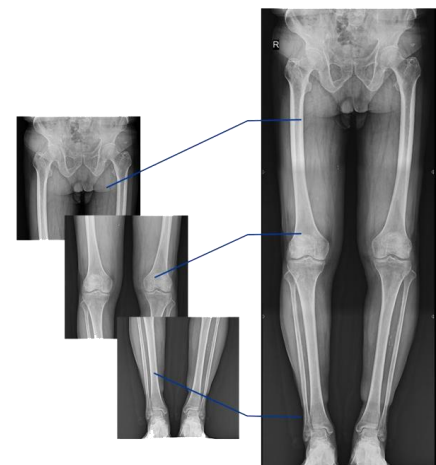
Motorized Rotating Foot Pedal

The electrically controlled 360° rotating foot pedal can quickly complete multi-angle observation without the patient turning, and the positioning is more accurate, which greatly improves the surgeons' work efficiency.



Automatic Stitching Function

It allows to acquire, in a completely automatic way, a sequence of images, and through a reconstruction algorithm, to generate a new stitched full image for spine/ lower limbs/ even whole body. It can be formulated and transferred in DICOM format, and also to be exported to PACS.



Mobile Console Trolley

- 1- Length: 512mm; Width:659mm; Height:1360--1580mm(Adjustable)
- 2- Movement Control
- 3- Exposure Control
- 4- 24" monitor



Optional Functions:

DAP

- 1- The first industrial manufacturer to adopt DAP monitoring system with deep technical accumulation.
- 2- Record the single examination dose and manage the radiation absorption of patients.
- 3- An important functional index to export to European and American countries.



AEC

- 1- Intelligent control of exposure time, more efficient
- 2- Intelligent control of light sensitivity according to different parts
- 3- Reduce the operation difficulty and shorten the workflow



Technical Specification:		<i>Technical Parameters</i>
Electricity Condition	Voltage	380V±38V
	Frequency	50Hz±1Hz
	Capacity	105kVA
	Resistance	≤0.17Ω
Generator	Power	65.5kW
	Inverter Frequency	500kHz
	Tube Voltage(Radiography)	40kV - 150kV
	Tube Current(Radiography)	10mA - 800mA
	Exposure time	1ms - 10000ms
	mAs	0.1 - 1000mAs
	Tube Voltage(Fluoroscopy)	40kV - 125kV
	Tube Current(Continuous Fluoroscopy)	0.5mA - 10mA
	Tube Current(Pulsed Fluoroscopy)	5mA - 20mA
X ray tube	Model:	Canon E7254FX
	Tube Focus:big/small	1.2mm / 0.6mm
	Input power	Big focus 102kW, Small focus 40kW
	Target Angle	12°
	Anode thermal capacity	400kHU
	Anode Heat dissipation:	1180W
	Tube Capacity:	1339kHU
	Rotary anode speed:	9700 rpm
	Work voltage:	40-150kV
	Inherent Filtration:	0.8mm AL
Collimator	Illumination brightness	≥100Lux
	Inherent Filtration	≥1mmAL
	Lighting time	5-45s

<i>Dynamic Flat Penal Detector</i>	Materials	A-Si(Amorphous Silicon)- CsI
	Active area	427(H) × 427(V)mm
	Pixel matrix	3072(H) × 3072(V)
	Pixel pitch	139μm
	A/D	16bit
	Spatial Resolution	3.7lp/mm
<i>Grids</i>	10:1; 230L/INCH; Removable Filter 498.5mm*449mm; SID 1m / SID 1.8m	
<i>Titling Table</i>	Height of tabletop:	550-1350mm
	Table Tilting range:	-90°/+90°
	Tube column Longitudinal movement along table:	1300mm
	Transverse distance:	320mm
	Tube column Swing around axis:	-45°/+45°
	Maximum load capacity of the table:	200 kg
	SID adjustment range:	1000--1800mm
<i>Digital Workstation</i>	Functions	Case registration, Image Acquisition, Image Processing, Dicom 3.0 protocol
	Monitor	24 inch LCD
	Resolution	1920*1200
	Storage	8G RAM + 1TB HD