



Floor-mounted Digital X-ray Imaging System

YJ-FDR300 Series

Application Scenarios

Applicable to orthopedics, emergency room, operating room, etc.,
As human head, limbs, chest, spine, lumbar spine for medical diagnosis.



Function Introduction



● High-precision Electric Following

- Self-developed control system, paired with closed-loop control algorithm.
- Strong anti-interference capability, low power consumption, safe with self-locking.

● Easy To Install And Debug

- Lightweight, split installation, integrated control with easy wiring.
- Easy to complete rack positioning and system debugging.

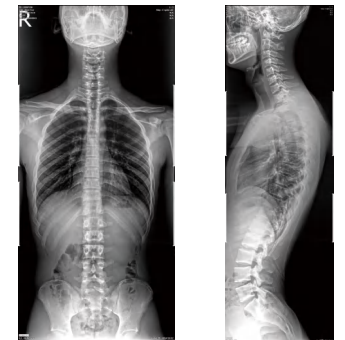


● Digital LED Control Screen

- Display the height of the tube and bucky, the Angle of the tube, the SID distance, etc.
- High brightness with large angle of view.

● High Definition Image Display

- Ten Millions of pixels imaging, diverse processing algorithms.
- Support real-time DAP monitoring , AEC exposure and one-click splicing.



Specifications

Ambient Conditions Photography table

Ambient temperature 10°C ~40°C	Type radiography table
Relative humidity 30% ~ 75%	Table size 2100mm x 816mmX623mm
Atmospheric 70~ 106kPa	load-bearing 300kg
Main head 10.4 inch control panel	Floating front and back120mm/120mm
	Floating left and right 400mm/400mm

X-ray detector(Flat Panel Detector) Column stand movement

TypeAmorphous Silicon	Tube stand
Scintillator Cesium Iodide	Up-down movement 60-160cm
Active Area 17x17Inch(43cm*43cm)	Stand left-right movement 50-180cm
Active Pixel 3072*3072	Rotational angles of tube -30°~ 120°
Pixel Pitch 139um	Optional rotational angles of stand -180°~ 180°
A/D Conversion 16bits	Bucky stand
DQE ≥ 70%	FPD cover movement 30~190cm
Spatial Resolution 36Lp/cm	
Acquisition time ≤2s	

Collimator Workstation

TypeManual Collimator	Monitor 24" LCD Dell brand
Max. Window 450mmx450mm (SID=100cm)	CPU ≥2.8GHz
Lamp AC/DC24V, 5W	Memory ≥4GB
Lamp timer Automatic illumination with timer for lamp(30s)	HDD≥ 1TB
Inherent filtration 1.5mmAl	Gbps network
Illuminant LED	Windows operating system

Grid optional

Densities 40LP/CM
Ratios10:1
Size 18"x18"
Focal distance 100cm(Radiography table), 180cm(Bucky stand)

X-ray Generator

Model YJ-FDR300 Series

Output power	20kW	32kW	40kW	50kW
Current	10-320mA	10-400mA	10-500mA	10-630mA
Voltage	40-125kV	40-125kV	40-150kV	40-150kV
mAs	0.1-320mAs	0.1-400mAs	0.1-400mAs	0.1-630mAs

Exposure time 0.002~6.3s

APR program Equipped

Intelligent protection system It has self-protection system.
It will give an alarm and check fault code.

X-ray Tube

Model

Output power	20kW	32kW	40kW	50kW
Anode type	Rotating Anode	Rotating Anode	Rotating Anode	Rotating Anode
Revolving speed of anode	50Hz:2800rpm 60Hz:3000rpm	50Hz:2800rpm 60Hz:3000rpm	50Hz:2800rpm 60Hz:3000rpm	50Hz:2800rpm 60Hz:3200rpm
Focus size	0.5/1.0	0.5/1.0	1.0/2.0	1.0/2.0

Anode heat storage capacity	140kHU	140kHU	200kHU	200kHU
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Maximum Anode Heat Dissipation	475kW	475kW	490kW	490kW
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Housing heat storage capacity	900kj	900kj	1100kj	1100kj
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Optional touch control Screen

- Adjust the exposure parameters and mode.
- Positioning guidance enables patients to quickly and accurately locate themselves.
- Display the exposed image and perform zooming in and out processing.
- Display and adjust the rack position.



Important components



● X-ray Tube

- High heat capacity tube, capable of long-term high-dose output.
- The smallest size focus ensures detailed texture of the image.

● X-ray Detector(FPD)

- 16bit high-definition acquisition board, AED intelligent operation.
- Direct growth CsI process, high image quality with low-dose.

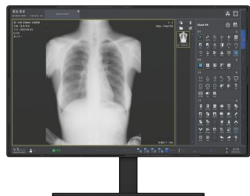


● Collimator

- High brightness illumination with Low-power LED.
- Low leakage radiation under high KV operation.

● X-ray Generator

- Technology leadership, the voltage control solution is protected by patent.
- High reliability with one hundred thousand times high kV exposure test.



● Professional Acquisition Software

- Support multiple languages.
- Multiple APR location options.
- Comply with the standard DICOM3.0 protocol and support to RIS/PACS/printer connection.

More Color



More Configuration

