

Muses Exp

Floor-mounted Digital X-ray System

Product Specification

Infinite Possibilities

Ready for Your Future Demand



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Configuration		
No.	Name of Component	Quantity
1	X-ray generator	1
2	Lanmage tube	1
3	Digital flat panel detector	1
4	Tube stand	1
5	Bucky stand	1
6	Fixed exam table with 4-way floating	1
7	Automatic tracking module	1
8	Image acquisition and processing software	1
9	Digital acquisition workstation	1
10	Collimator	1
11	Grid	2
12	Communication Interactive System	1
13	Remote administration maintenance system	1
14	Remote control	1

Specification		
No.	Description	
1	X-Ray Generator	
	Input power	380VAC, three phase
	Nominal electric power	56kW
	Tube voltage range	40~150kV
	Current output range	10 ~ 630mA
	Time of exposure	1ms~10000ms
	Current & Time range	0.4 ~ 1000mAs
	Automatic APR linkage function	Provide
2	X-Ray Tube	
	Focal spot	0.6/1.2mm
	Focal power	20kW/50kW
	Tube voltage range	40~150kV
	Anode heat capacity	300kHU
	Rotary anode	2800 RPM
	Digital Flat Panel Detector	
	FPD type	a-Si/CsI
	Image area	17×17inch
	Acquisition matrix	3072×3072
	Pixels size	139 μm

3	Resolution	3.6lp/mm
	A / D conversion	16bit
	Imaging time	≤9s
	Image review time	≤7s
4	Stand Assembly	
	Tube rotation angle range	±180°, deviation±2%
	Tube telescopic movement range	300mm, deviation±5%
	Height of tube stand	2340mm, deviation±5%
	Tube stand horizontal movement	2100mm, deviation±5%
	Tube stand rotation angle range	±180°, deviation±2%
	Tube vertical movement range	1300mm, deviation±5%
	Distance from tube focus to floor	Min:380mm, deviation±5%
	Bucky vertical movement range	1490mm, deviation±5%
	Distance from Bucky center to floor	Min: 380mm, deviation±5%
	Height of Bucky stand	2280mm, deviation±5%
	Patient Bed	
	Size	2300×800mm, deviation±5%
	Bucky moving range under bed	600mm, deviation±5%
	Longitudinal floating range	900mm, deviation±5%
	Horizontal floating range	300mm, deviation±5%

5	Bearing Weight	250kg
	Bed panel floating	Four-way floating tabletop
	Floating control mode	Foot switch, EM lock
6	Automatic Tracing Module	
	Tracking method of tube, bucky stand and patient bed	Two-Terminal synchronous motor driving
	Tracking method of tube and under-bed detector	Mechanical physical tracking
	Automatic tracking the wall stand and the table detector along the vertical and horizontal axis.	Provide
7	Collimator	
	FOV	$\geq 430\text{mm} \times 430\text{mm}$
	Type	Manual
	Brightness	$\geq 160 \text{ Lux @SID100cm}$
	Automatic shutdown time	$30 \pm 2\text{s}$
	Inherent filtration	2mm·Al@75kVp
	SID ruler	Provide
8	Grid	
	Type	Drawable
	Grid density	40lp/cm

	Grid ratio	10 : 1
	Size	18×18 inch
9	Communication Interactive System	
	Two-terminal voice conversation	Provide
	Volume adjustable	Provide
10		
	Rotation angle indicator	Provide
	Magnetic unlock button for frame movement	Provide
11	Imaging Station--- Console	
	Operating system	Win10
	CPU	≥I3
	RAM	8GB
	Hard disk	1TB
	Screen size	≥21.5 inches
	Image Acquisition Software	
	Image acquisition function	
	Automatically obtain patient information from the hospital's HIS system or RIS system or the local medical records.	
	Exposure parameters setup: kV, mA, mAs and ms.	
	Image processing function	

12	Automatic adjustment of window width and position, ROI width and position adjustment, gray scale adjustment, and parallel display of single or multiple images.
	Image zooming function: capable to zoom In/out and spot zoom.
	Image flip: left/right flip, up/down flip and 90° flip.
	Image filtering: noise suppression, bone level, tissue details, contrast, etc.
	Labelling: text, arrow and others add or delete.
	Image measurement: distance, angle and rectangle measurement.
	Image adjustment: gain of window position and width, gray scale stretch, image negative reversal, image sharpness, image enhancement etc.
	Other functions: image movement, label selection, image clipping and other functions.
	Image management function
	DICOM and database management: supports the standard DICOM3.0 function, which can transfer data to other medical imaging workstations.
	A variety of laser film printing functions: support various sizes of film printing.
	Patient data management function
	The patient data could be stored, retrieved and searched, and can be deleted and browsed.

	Function of printing diagnostic report: the built-in diagnostic report template and knowledge base of the system can export an integrated report.
	System monitoring function
	It has real-time monitoring functions to monitor the heat capacity of tube, state of high voltage generator, temperature of detector, exposure statistics.

Working Environment		
Humidity	Temperature	Atmospheric pressure
20% ~ 90%	10°C ~ 35°C	70kPa ~ 106kPa