High Frequency Mobile Digital C-arm System

Technical Specification

China Care Medical Equipment Co.,Ltd
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Package: 2900*1450*1610mm, total6.78m³, Gross weight:820kg, Net Weight: 570kg

I. Application:

Emergency Department, General Surgery, Spine Surgery, Orthopedics, Urology, Gynecology,Trauma, Pain Managerment, Plastic Surgery, interventional surgery like ERCP etc .

II. Configuration:

1,	New (with electric auxiliary support arm) C-arm frame	1 set
2,	High-frequency high-voltage X-ray generator and high-frequency inverter power supply(12KW、60KHZ、125KV)	1 set
3,	Toshiba 9-inch image intensifier triple-sighted (9inch/ 6 inch / 4.5 inch)	1 set
4,	Imports of super-low-light digital camera 1024x1024 **(TOSHIBA)**	1 set
5,	Touchable human graphic screen	2 sets
6.	Dense grain grids	1 set
7,	Electric adjustable beam collimator	1 set
8,	19 inch LCD display	2 sets
9,	Hand-held controller	2 sets
10.	Foot switch for exposure	2 sets
11.	Red-cross positioned	1 set
12,	Digital workstation	1 set

III. Specifications

Max rated capacity:	12 KW	
1. Fluorscopy Capacity		
Automatic Fluoroscopy :	Tube Voltage:	40kV ~ 125kV Adjust Automatically
	Tube Current ：	0.3mA ~ 4mA set manually
Manual Fluoroscopy :	Continuous Tube Voltage:	40kV ~ 125kV
	Continuous Tube Current :	0.3mA ~ 4mA
Enhanced Fluoroscopy:	Continuous Tube Voltage:	40kV ~ 125kV
	Continuous Tube Current :	0.3mA ~ 8mA
Pulse Fluoroscopy:	Continuous Tube Voltage:	40kV ~ 120kV
	Continuous Tube Current :	0.3mA ~ 30mA
2. Photography Capacity		
Tube Voltage:	40kv-125kv	
Tube Current:	160mA	
3.X-ray Tube		
Fixed anode:	Dual-focus : large focus: 0.6mm, small focus: 0.3mm	
Inverter Frequency:	60KHz	
Anode capacity:	212KJ	
Tube thermal capacity:	1000kJ	

4. Video System			
Image Intensifier	Image Intensifier made by TOSHIBA (9") ; Three view (9inch/6 inch/4.5inch) E5764SD-P3; Image definition indicators 12 bit		
CCD camera	Mega Ultra low-light CCD camera imported from Japan		
5.Display and workstation	2sets 19 inch LCD monitors. Workstation software with DICOM3.0 port.		
6. Structure :			
Directive wheel:	±90°revolution: Can freely change the moving direction of the unit.		
Vertical movement :	≥400mm (motorized)		
C-arm:	Forward and Backward Movement:	200mm	motorized
	Revolution around Horizontal Axis:	±180°	motorized
	swinging:	±15°	
	Slip on orbit:	120°(+90°~ -30°)	motorized

IV. Features

1. High-frequency generator with super high power and microfocus, optimizes digital images.
2. Leading world-class continuous pulse fluoroscopy, intelligent exposure control, achieving extremely low radiation dose.
3. Multi-working patterns to meet various clinical needs.
4. Multi-leaf and vertical light control reduce the soft X-ray effectively and the skin dose dramatically.
5. Imported well-known image intensifier and digital CCD camera provide high-quality and high-resolution images.
6. High-resolution and dual LCD monitors improve image quality dramatically.
7. Powerful digital graphic workstation with standard configuration of DICOM 3.0 connected to network perfectly, supports dual registrations of worklist registration and manual registration.
8. Workstation has high-capacity digital storage function, and fluoroscopy and digital spot film are stored in lossless digital format. It has powerful processing capabilities like edge enhancement, multiple image, gamma correction, cineloop, window center-window width, experts template, record, etc.
9. Four-dimensional electric motion control, accurate positioning, flexible and smooth. Large rack design provides a huge examing space and more comfortable surgery environment. Fresh designs and ideas bring you superior experience.
10. Two panels of human graphical LCD touch screen, intelligent and fast operation. Dual kinetic control system and double foot brake design for exposure, meeting the demands of clinical operations greatly.

V. Customer feedback of angiography ERCP they were doing.

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