

High Frequency Mobile Digital C-arm System

CCX112B



Technical Specification

China Care Medical Equipment Co., Ltd

Package: 2500*1100*1480mm, total 4.07m³, Gross weight: 575kg, Net Weight: 440kg

I. Application:

Emergency Department, General Surgery, Spine Surgery, Orthopedics, Plastic Surgery, Operating Room, Fixation , implant surgery 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 (5KW、40KHZ、120KV)	1 set
3,	Toshiba 9-inch image intensifier three view (9inch/ 6 inch / 4.5 inch)	1 set
4,	Imports of super-low-light digital camera 1024x1024 -Toshiba	1 set
5,	Supporting Arm	1 set
6.	Dense grain grids	1 set
7,	Electric adjustable beam collimator	1 set
8,	19 inch LCD display and 24 inch LCD Display	1 set
9,	Hand-held controller	1 set
10.	Foot switch for exposure	1 set
11.	Red-cross positioned	1 set
12,	Digital work station image software	1 set

III. Specifications

Max rated capacity: 5 KW

1. Fluoroscopy Capacity

Automatic Fluoroscopy :	Tube Voltage:	40kV ~ 120kV Adjust Automatically
	Tube Current :	0.3mA ~ 4mA set manually
Manual Fluoroscopy :	Continuous Tube Voltage:	40kV ~ 120kV
	Continuous Tube Current :	0.3mA ~ 4mA
Pulse Fluoroscopy:	Continuous Tube Voltage:	40kV ~ 120kV
	Continuous Tube Current :	0.3mA ~ 30mA

2. Photography Capacity

Tube Voltage:	40kv-120kv
Tube Current:	25mA-100mA
Tube Voltage and Current Combination:	40kV ~ 49kV 1 ~ 180 mAs
	50kV ~ 59kV 1 ~ 140 mAs
	60kV ~ 69kV 1 ~ 125 mAs
	70kV ~ 79kV 1 ~ 110 mAs
	80kV ~ 89kV 1 ~ 100 mAs
	90kV ~ 99kV 1 ~ 80 mAs

100kV ~ 110kV 1 ~ 63 mAs

110kV ~ 120kV 1 ~ 50 mAs

3.X-ray Tube

Fixed anode: Dual-focus : large focus: 1.8mm, small focus: 0.6mm

Inverter Frequency: 40KHz

Anode capacity: 35.5KJ (47KHU)

Tube thermal capacity: 650kJ (867kHu)

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 19" +24" LCD monitors. Workstation software with DICOM3.0 port.

6. Structure :

Directive wheel: $\pm 90^\circ$ revolution:
Can freely change the moving direction of the unit.

Vertical movement : ≥ 400 mm (motorized)

C-arm Mechanical movement	Forward and Backward Movement:	200mm	manual
	Revolution around Horizontal Axis:	$\pm 180^\circ$	manual
	swinging:	$\pm 15^\circ$	manual
	Slip on orbit:	$120^\circ(+90^\circ \sim -30^\circ)$	manual
	SID	1000mm	
	C-arm Opening	760mm	
	Depth of C-arm	670mm	

IV. Features

1. With a compact appearance,light design, easy to operate.
2. Unique base electric auxiliary support arm design, it's more security for using.
3. A unique hand-held controller design, convenient to operate.
4. With a high-quality knockdown X-ray generator to reduce radiation.
5. KV, MA automatically track to make the image brightness and clearness optimum
6. Toshiba image intensifier triple-view, 9inch/6inch/4.5inch.
7. Image acquisition and processing workstation:

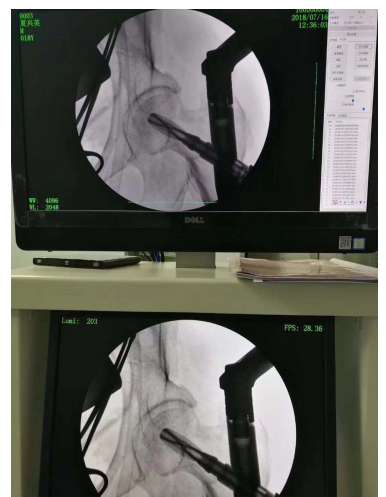
Registration: registration, medical records, Worklist

Collection: Start collection; prepare video, reset, horizontal mirror, vertical mirror, window adjustment, magnifying glass, negative image,Open silhouette, edge enhancement, recursive noise reduction.

Processing; four windows, nine windows, sharpening, horizontal mirror, vertical mirror, text annotation, length measurement report: save, preview, expert template

- 8. Dicom features: Dicom browsing, web service , Dicom3.0 interface to connect with PACS, OR HIS SYSTEM, and dry film printer
- 9. Automatic dynamic motion detection when fluoroscopy to avoid movement-related blurring.

V. Customers Feedback





OUR UPCOMING EXHIBITIONS:



High Frequency Mobile C-arm System

Pulse control ,Digital radiography ,Auto fluoroscopy

- * High frequency high voltage x-ray generator and high precision digital pulse control technology ensure excellent image with low skin dose.
- * Digital radiography function, no more film-screen system, simplify the operate process.
- * Maximum optimize the image brightness and definition depend on the kV/ mA auto trace function.
- * Electric controlled collimator satisfy multi-angle and multi-directional anatomical display requirements.



Digital mega pixels image system

- * High quality image intensifier.
- * High definition CCD camera.
- * High-resolution high-brightness monitoringsystem.



- * Equipped with workstation to realize the functions include registration, image collection, processing, issue the report and so on, Dicom interface to connect the hospital imaging network.

Attractive design, Compact appearance More details , Less dose

Friendly user interface, convenient operate

- * Human graphic LCD touch screen system.
- * Hand controller design support long distance exposure.

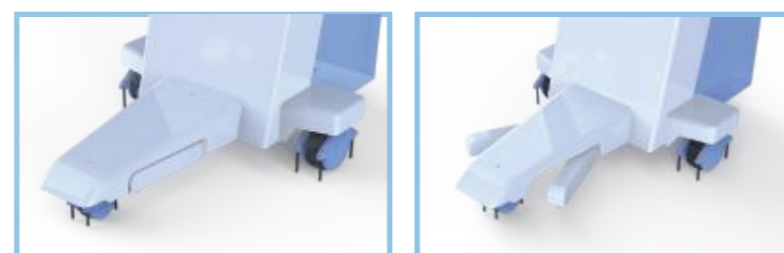


Flexible C-arm Design All angles rotation



C-arm move around horizontal axis at $\pm 180^\circ$ C-arm move along orbit $120^\circ(+90^\circ \sim -30^\circ)$ C-arm move backward and forward $\geq 200\text{mm}$ C-arm vertical movement $\geq 400\text{mm}$ C-arm swing range at $30^\circ(\pm 15^\circ)$

- * Divertible main wheel together with direction wheels make movement more flexible.
- * Electric support arm make the movement of machine more stable during moving.



Technical Parameters

Item	
Power Output	5kW
Inverter Frequency	40kHz
Dual focus	0.6/1.8
Continuous Fluoroscopy Mode(manual & automatic)	Tube Voltage:40kV~120 kV
	Tube Current:0.3mA~4mA
Pulse Fluoroscopy	Tube Voltage:40kV~120 kV
	Tube Current:0.3mA~30mA
Photography Mode	Tube Voltage:40 kV~ 120 kV
	Tube Current:25 mA~100mA
	mAs:1~180 mAs

