

PRODUCT DESCRIPTION

Product Usage

CA112B is a HIGH FREQUENCY MOBILE DIGITAL C-ARM SYSTEM

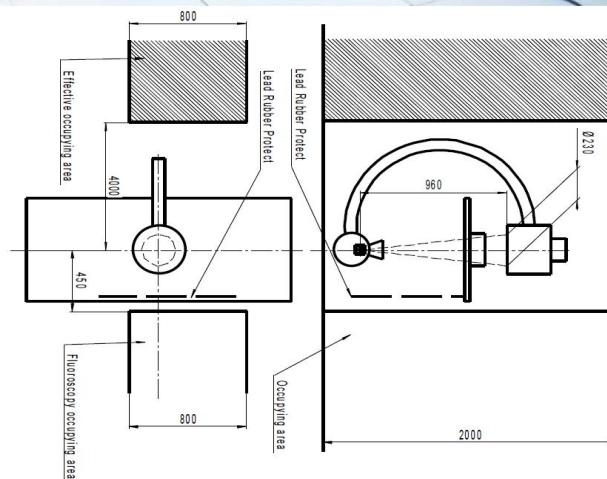
Orthopaedics: Osteopathy, Diaplasis, Nailing

Surgery: orthopedic, removing foreign body, implanting pace maker, partial radiography, local photography, and other work.

More



Room layout



Configuration

- 1, New (with electric auxiliary support arm) C-arm Frame
- 2, High-frequency high-voltage X-ray generator and high-frequency inverter power supply
- 3, 4 inch ordinary LCD, resolution 1920x1200
- 4, 9 inch ordinary LCD, resolution 1280 * 1024
- 5, 9 Inch three field image intensifier
- 6, Megapixel ultra-low illumination digital camera, Camera pixel matrix description: 1024x1024
- 7, Digital acquisition and processing workstation
- 8, Dense grid 40L / cm grid ratio: 8:1 focal length: 90C
- 9, Electric adjustable beam collimator
- 10, handheld controller
- 11, Laser cross positioner
- 12, Digital work station

Features

1. High quality combined high-frequency and high-voltage X-ray generator, greatly reducing the X-ray exposure;
2. It has the function of automatic tracking of perspective kV and Ma, which makes the image brightness and clarity in the best state automatically;
3. The real-time and continuous pulse perspective mode has small ray dose, but the image is clearer, which can meet the needs of high-precision and difficult minimally invasive surgery, and can effectively protect medical care Safety of personnel and patients;
4. The host operation interface of the human graphical LCD touch screen is adopted to make the operation more intelligent and convenient;
5. The design of the hand-held controller makes the operation of the instrument more convenient;
6. The 9-inch three field image intensifier is used, with stable and reliable quality and good image definition;
7. The megapixel ultra-low illumination digital camera is used, with clearer image;
8. Standard workstation and advanced image software processing technology make the image clearer, convenient for doctors' operation and diagnosis, standard DICOM interface and easy to link with hospital information system;
9. Electric auxiliary support arm design, safer use;
10. New frame design, small and beautiful appearance;
11. Realize the function of digital photographing, make the photographing operation more convenient and the image digital processing more efficient.

Product Specification

1、 Monoblock

1.1 Focus:0.6/1.8

1.2 Anode capacity : 35.5kJ (47kHu)

1.3 Tube Heat capacity : 650kJ (867kHu)

1.4 Power output : 5kW

1.5 Inverter Frequency : $\geq 40\text{kHz}$

1.6 Continuous Fluoroscopy (Manual/ automatic)

1.6.1 Tube voltage : 40kV ~ 120kV

1.6.2 Tube current : 0.3mA ~ 4mA

1.6.3 Automatic brightness tracking function

1.7 Pulse fluoroscopy

1.7.1 Tube voltage : 40kV ~ 120kV

1.7.2 Tube current : 0.3mA ~ 30mA

1.7.3 Pulse frequency: intelligent control reduces the radiation dose, improves the quality of single frame image and improves the continuous working time

1.8 Radiography mode

1.8.1 Radiography : 40kV ~ 120kV

1.8.2 Radiography tube current : 25mA ~ 100mA

1.8.3 Radiography mAs : 1.0mAs ~ 180mAs

1.9 Beam limiter: Electric iris + linear symmetrical rotatable

1.10 Working environment conditions

1.10.1 Environment temperature : 10°C — 40°C

1.10.2 Relative humidity : 30%—75%

1.10.3 Atmospheric pressure : 700hpa—1060hpa

1.11 Operating power condition

1.11.1 Power supply voltage and phase number: single-phase $220\text{V} \pm 22\text{V}$

1.11.2 Power frequency : $50\text{Hz} \pm 1\text{Hz}$

1.11.3 Internal resistance of power supply: no more than 1Ω

2、 Imaging system

2.1 image intensifier: 9 " three field e5764sd-p3, center resolution 4.8lp/mm

2.2 camera: ultra-low illumination, one million pixel black and white progressive scanning

2.3 LCD: 24 inch ordinary LCD, resolution 1920x1200, working frequency: 60Hz

2.4 image acquisition and processing workstation

2.4.1 Registration: Registration preservation, medical record query, worklist

2.4.2 Acquisition: start acquisition, prepare recording, reset, horizontal mirror, vertical mirror, window adjustment, magnifying glass, negative image, edge

Edge enhancement, recursive noise reduction

2.4.2 processing: four windows, nine windows, sharpening, horizontal mirror, vertical

mirror, text annotation, length measurement

2.4.3 report: save, preview, expert template

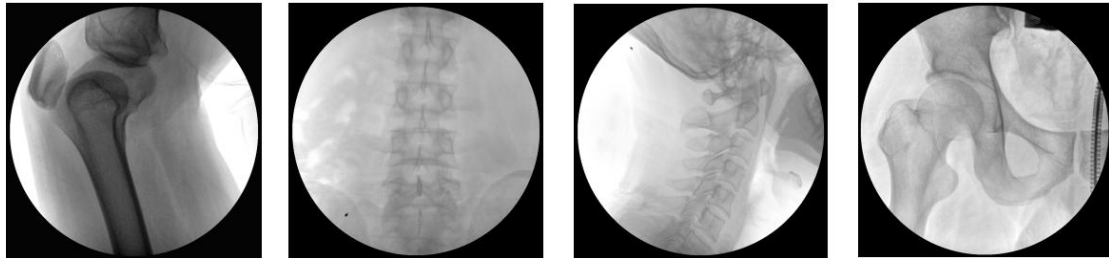
2.4.4 DICOM function: DICOM browsing, network service

2.5 image definition index

2.5.1 gray level: ≥ 11

2.5.2 line pair resolution: $\geq 2.0\text{lp/mm}$

Clinical images



3. Mechanical part

3.1 forward and backward movement: 200mm

3.2 rotation around horizontal axis: $\pm 180^\circ$

3.3 rotation around vertical axis: $\pm 15^\circ$

3.4 focal screen distance: 1000mm

3.5 C-arm opening: 760mm

3.6 arc depth of C arm: 670mm

3.7 sliding along the track: $120^\circ (+90^\circ \sim -30^\circ)$

3.8 electric lifting of column: 400mm

3.9 guide wheel and main wheel: the guide wheel can rotate in any direction, and the main wheel can rotate $\pm 90^\circ$

3.10 with electric auxiliary support arm

3.11 full balance: when the mechanical movement of the equipment is unlocked, the C-arm is balanced at any position and angle without sliding

3.12 light thrust

