

# HIGH FREQUENCY MOBILE DIGITAL C-ARM SYSTEM

**CCX16A, SKU: 5KW**  
( 5kw 100mA & integrated workstation)



**PRESENTATION OF PRODUCT**

## ***PRODUCT DESCRIPTION***

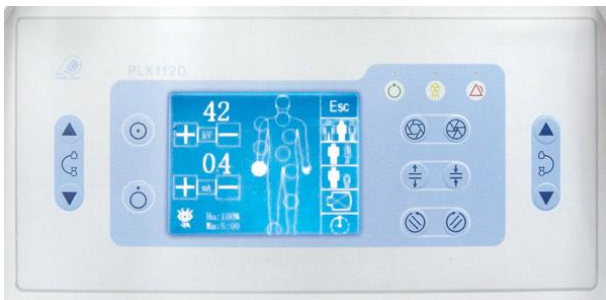
### ***Product Usage***

**IT 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.





### **Configuration**

- |     |   |       |
|-----|---|-------|
| 1,  | New (with electric auxiliary support arm) C-arm Frame                                       | 1unit |
| 2,  | High-frequency high-voltage X-ray generator and high-frequency inverter power supply        | 1unit |
| 3,  | 24 inch integrated LCD, resolution 1920x1080  | 1unit |
| 4,  | 9 Inch image intensifier  | 1unit |
| 5,  | Megapixel ultra-low illumination digital camera, Camera pixel matrix description: 1024x1024 | 1unit |
| 6.  | Dense grid 40L / cm grid ratio: 8:1 focal length: 90CM                                      | 1unit |
| 7,  | Electric adjustable beam collimator   | 1unit |
| 8,  | Hand-held controller  | 1unit |
| 9,  | Digital acquisition and processing system   | 1unit |
| 10. | Laser cross position  | 2 set |

## ***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 host operation interface of the human graphical LCD touch screen is adopted to make the operation more intelligent and convenient;
4. The design of the hand-held controller makes the operation of the instrument more convenient;
5. The 9-inch field image intensifier is used, with stable and reliable quality and good image definition;
6. The megapixel ultra-low illumination digital camera is used, with clearer image;
7. 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;
8. New frame design, small and beautiful appearance;
9. Realize the function of digital photographing, make the photographing operation more convenient and the image digital processing more efficient.

## ***Product Specification***

- 1、 Monoblock Generator and X-ray tube
  - 1.1 Dual Focus:0.6/1.8mm
  - 1.2 Anode capacity: 35.5kJ (47kHu)
  - 1.3 Tube Heat capacity: 650kJ (867kHu)
  - 1.4 Power output: 5kW
  - 1.5 Inverter Frequency:  $\geq 40\text{kHz}$
  - 1.6Continuous 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
  - 1.7Pulse fluoroscopy
    - 1.7.1 Tube voltage: 40kV ~ 120kV
    - 1.7.2 Tube current: 0.3mA ~ 30mA
  - 1.8 Digital 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 220V  $\pm$  22V

1.11.2 Power frequency: 50Hz $\pm$ 1Hz

1.11.3 Internal resistance of power supply: no more than 1  $\Omega$

## 2、 Imaging system

2.1 image intensifier: 9 " canon i.i center resolution 4.8lp/mm. DQE:65%<sup>2</sup>.

2 Ultra low illuminance, megapixel black and white progressive scanning camera pixel matrix description: 1024x1024

2.3 LCD: 24 inch integrated LCD, resolution 1920x1080, 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

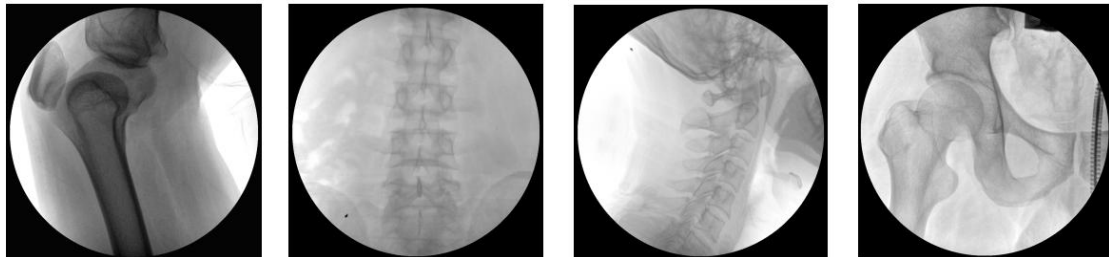
Edge enhancement, recursive noise reduction

2.4.3 Processing: four windows, nine windows, sharpening, horizontal mirror, vertical mirror, text annotation, length measurement

2.4.4 Report: save, preview, expert template

2.4.5 DICOM function: DICOM browsing, network service

### Clinical images



## 3. Mechanical part

3.1 forward and backward movement: 200mm

3.2 rotation around horizontal axis:  $\pm$  180 °

3.3 rotation around vertical axis:  $\pm$  15 °

3.4 focal screen distance: 960mm

3.5 C-arm opening: 760mm

3.6 arc depth of C arm: 640mm

3.7 sliding along the track: 120 ° (+ 90 ° ~ - 30 °)

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. monitor on frame rotation  $\geq 300^\circ$

3.11 light thrust

