

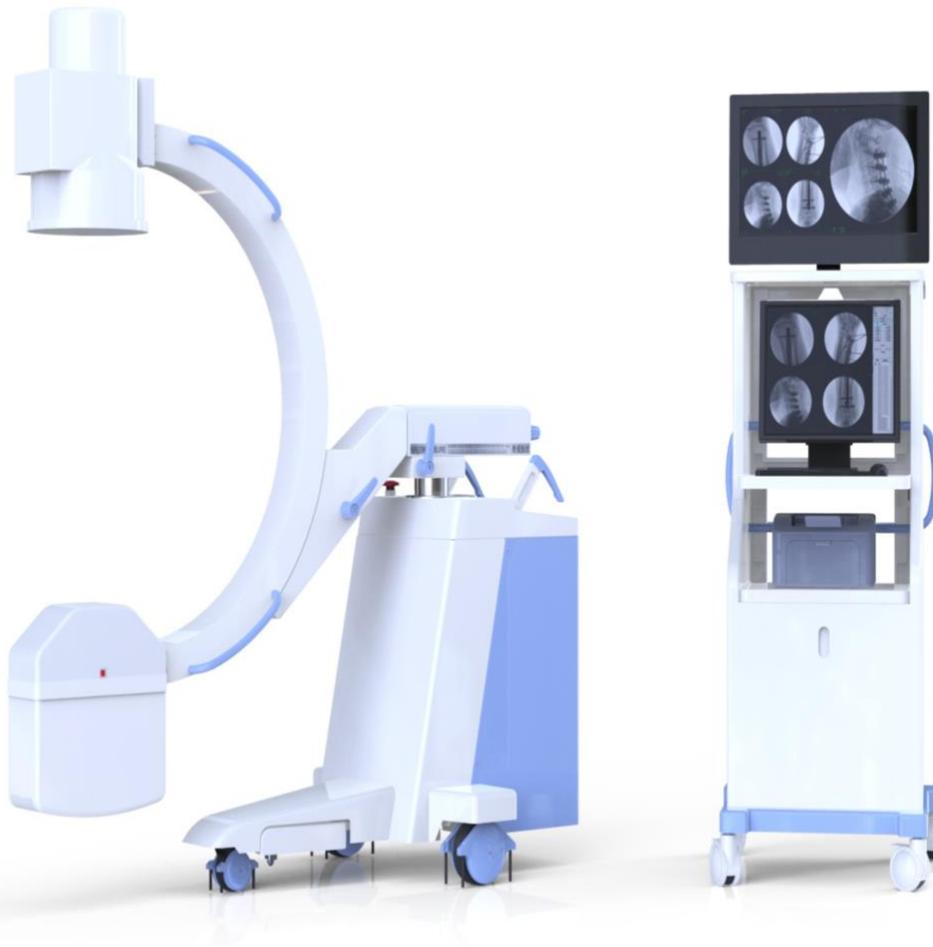


**PERLOVE  
MEDICAL**

## HIGH FREQUENCY MOBILE DIGITAL C-ARM SYSTEM

**PLX112B**

( 5kw 100mA )





### ***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 ordinary LCD, resolution 1920 x 1200	1unit
4.	19 inch ordinary LCD, resolution 1280 x 1024	1unit
5.	9 Inch three field image intensifier	1unit
6.	Megapixel ultra-low illumination digital camera, Camera pixel matrix description: 1024 x 1024	1unit
7.	Digital acquisition and processing workstation	1unit
8.	Dense grid	1unit
9.	Electric adjustable beam collimator	1unit
10.	Hand-held controller	1unit
11.	Laser cross positioner	1sets

### ***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 views 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:**0.3/1.5.

**1.2 Anode capacity :** 35.5kJ ( 47kHu ) .

**1.3 Tube Heat capacity :** 650kJ ( 867kHu ) .

**1.4 Power output :** 5kW.

**1.5 Inverter Frequency :**  $\geq 40$ kHz.

**1.6 Continuous Fluoroscopy (Manual/ automatic).**

**1.6.1 Tube voltage :** 40kV ~ 120kV.

**1.6.2 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 Environment temperature :** 10°C - 40°C.

**1.10.1 Relative humidity :** 30% - 75%.

**1.10.2 Atmospheric pressure :** 700hpa - 1060hpa.

**1.11 Operating power condition.**

**1.11.1 Power supply voltage and phase number:** single-phase 220V  $\pm$  22V.

**2.1 image intensifier:** 9 " three views E5764SD-P3, center resolution 4.8lp/mm, DQE:65%.

**2.2 Camera:** CCD, ultra-low illumination, one million pixel black and white progressive scanning, 12bit.

**2.3 LCD:** 24 inch ordinary LCD, resolution 1920 x 1200 & 19 inch ordinary LCD, resolution 1280 x 1024.

**2.4 Registration:** Registration preservation, medical record query, worklist.

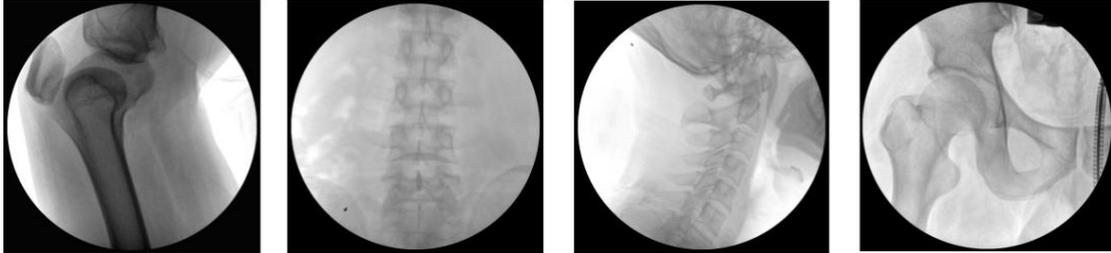
**2.4.1 Acquisition:** start acquisition, prepare recording, reset, horizontal mirror, vertical mirror, window adjustment, magnifying glass, negative image, Edge enhancement, recursive noise reduction.

**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.

### 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  $\pm 90^\circ$  with electric auxiliary support arm.

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



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