Advanced Imaging Systems

Digital mobile c-arm with FPD
XR-7100A

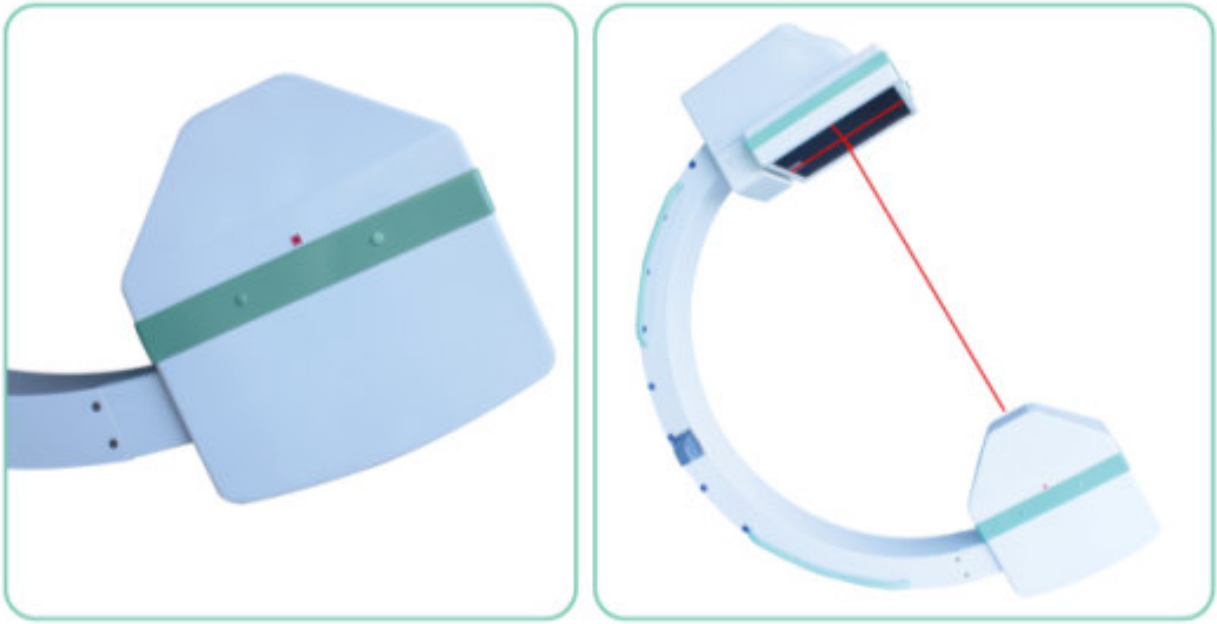
www.sco-med.de

Standard configuration

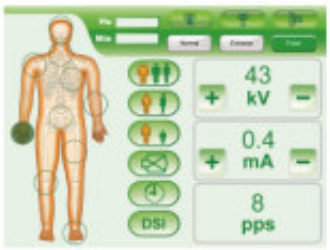
- New designed compact c-arm frame with All motorized-control movement 1set
- HF/HV monoblock and power supply 1set
- FPD detector from Thales with the filed of 20*20cm 1set
- Digital image processing system 1set
- 5、2pcs of 21inch 2M medical used grayscale LCD monitor
- High-dense Imported Grid 1pcs
- Motorized adjustable collimator 1pcs
- Human-Graphic APR touchscreen control panel 2pcs
- Hand-controller for parameter setting 1pcs
- Hand-controller for movement control 2pcs
- Feet-pedal for exposure 2pcs
- imaging transferring and processing software 1set
- Laser locator 1 pcs

Main Parts info：

A. The compact design of the strong x-ray monoblock and friendly-user control for easy control;



- Double rotatable flat-screen monitors on the trolley, clearly visualize the smallest anatomical details even at an angle.



- Human graphical LCD touch screen with accurate APR parameters setting realizes convenient operation.

- Hand controller on C-arm stand: control the mechanical and collimator movement, improve your workflow even you are away from the unit.

- Hand-held and panel dual-control system, control mechanical movement from long distance or at your hand all the time.

- Multi-functional foot switch for hand free direction access to fluoroscopy and radiography, convenient for close table and compartment operation.

1. HF/HV generator

1.1 Power output：25kW

1.2 Main frequency： 60kHz

1.3 Continuous fluoroscopy (manual & automatic)：

Tube voltage：40kV～125kV continuous adjustment
Tube current：0.3mA～5mA continuous adjustment

1.4 Intensifying fluoroscopy

Tube voltage：40kV～125kV continuous adjustment
Tube current：0.3mA～10mA continuous adjustment

1.5 Pulse fluoroscopy

1.5.1 continuous adjustment

Tube vlotage：40kV～125kV continuous adjustment
Tube current：0.3mA～100mA continuous adjustment
PPS 0.1-12.5PPS continuous adjustment

1.6 Digital Radiography

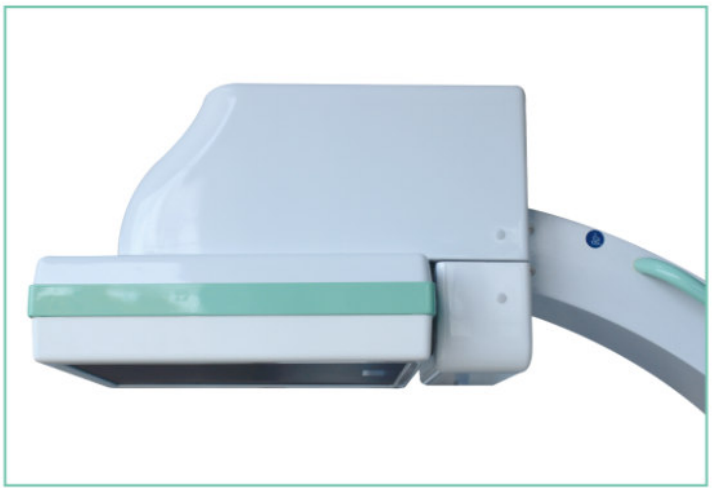
Tube vlotage： 40kV～125kV
Tube current： 70～200mA
mAs： 0.1～320 mAs

1.7 DSA Function

2. X-ray tube assembly

2.1 x-ray tube
dual focus 0.6/1.3mm and rotary anode
80 kJ Anode heat capacity
2.2 1000KJ Tube housing heat capacity
2.3 Tube heat load sensor indicating the temperature
2.4 Heat dissipation: 30KJ/min

3. Digital imaging system



- Full view FPD, outstandingimage quality and large field of view coverage even during image rotation.
- High dynamic field of view, achieve the optimal image of human body's soft tissue and skeletal tissue.
- A-si detector with CSi screen, excellent spatial resolution.

3.1 Flat panel detector

FPD model:	THALES Pixium Surgical 2630
Field size	28.7cm * 26.5cm
Pixel:	1560 * 1440
Pixel size:	0.184mm
A/D:	16 bit

- Perfect image processing system with extraordinary function ensures what you get.
- Built-in advanced image automatic optimum processing and enhancing module realize the sharp clinical image.
- Based on the Laplacian pyramid algorithm to achieveimage contrast enhancement and in-time tissue equalization.
- Professional working station has more image post-processing function such as the image W/L adjustment, region of interest balance, GAMMA correction, flip, noise reduction, smoothing, sharpening etc.
- Professional High-definition LCD medical display system presents you the ideal clinic images.

3.2 2pcs of 21" 2M medical use grayscale LCD monitors

3.3 digital image processing system

3.3.1 Image acquisition functionality: Real-in-time zoom in and out, Image Invert & Image rotation, Image evaluation like contrast Enhancement histogram display, Windowing;

3.3.2 Image processing functionality
Image processing like measurement, mark, zooming, windowing, 90 degree rotation and horizontal and vertical imaging;

3.3.3 Report editing
Standard diagnostic report formula are available and for diagnosit report editing and printing;

3.3.4 Film printing
Standard Dicom3.0 interface for film printing ;
Comprehensive network connection to RIS/HIS,PACSetc;

1. A high performance imaging workstation and image processing system serves you a convenient interface for integration with network.
2. Work-list registration for seamless integration in your hospital environment.
3. Dicom 3.0 network interface for integration with PACS or RIS.
4. CD burning for easy image transfer.
5. Multi-storage methods for easy image transfer.

4. Mechanical c-arm specification

- C-arm widely vertical movement range meets various height demand of operation table.
- Longer orbit sliding range brings you more visible area.
- C-arm back and forward movement can make non-central parts be covered easier.
- SID can be adjusted by detector movement to expand exposure area, bring you outstanding image and more operation space.

SID 955～1155mm
Orbit move around the c-arm ≥120 (+90/-30 degree)

C-arm rotation ±180°

Wig & wag move of the c-arm ±15°

Horizontal movement of the c-arm200mm

Vertical movement of the c-arm 400mm

Opening of the c-arm: 744～944mm
Depth of the c-arm 826mm

5. Power supply: 220+/-10% frequency 50Hz±1Hz