



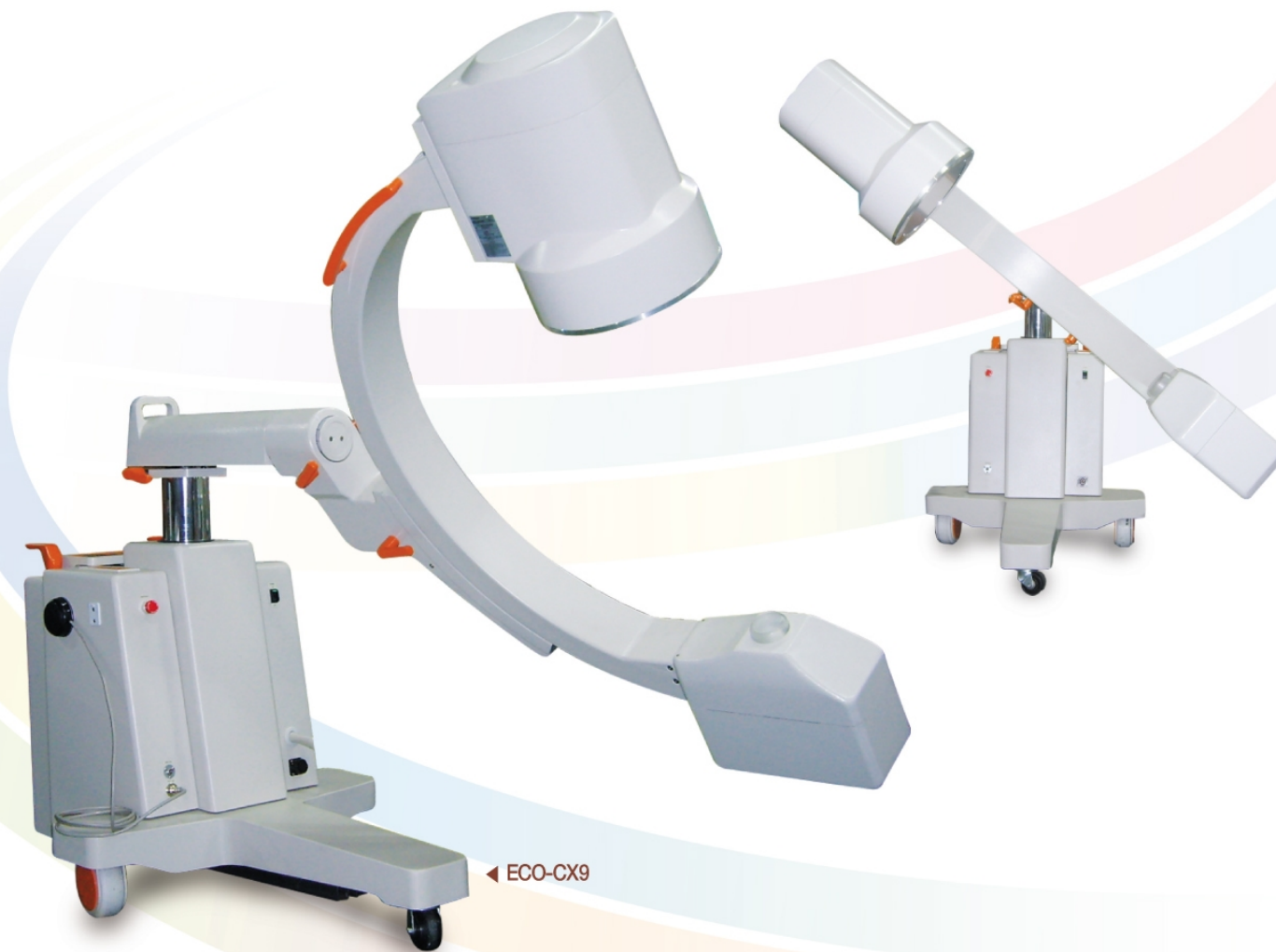
C-arm X-Ray System

ECO-CX9



www.acomaxray.com

EcoRay



ECO-CX9 C-ARM

**COMPACT & STRONG SOLUTION FOR
YOUR BASIC IMAGING DEMANDS**

A C-arm for Basic Imaging Capability

EcoRay continues its technical leadership in fluoroscopic imaging with the new ECO-CX9. This system provides imaging in multiple applications and for versatile clinical environments. With the ECO-CX9's compact design, and slim flat panel display monitor, users are able to easily maneuver in and out of a number of ancillary imaging situations and allow more space around the clinical setting, bringing imaging excellence into smaller spaces. The ECO-CX9 is operated by the two-side control system, allowing user accessibility from both sides of the C-arm.

Quality in a Compact Design

High-quality imaging in a compact design brings a clinically versatile system into your facility at a high value for strong return on investment. Ensure confidence in performing a number of procedures with the high-resolution CCD-Camera and high-resolution image processing. The ECO-CX9 offers intelligent computing power to provide optimal imaging with automatic digital brightness and contrast control. The mechanical design enhances maneuverability and positioning with counter-balancing C-arm friction controls. This helps make positioning for procedures easy and efficient.

Maximum Affordability in a Full Sized C-arm (Affordability in a Large Size C-arm)

The ECO-CX9 provides outstanding imaging capability at a very affordable price. Its flat-panel monitor and both side control panels are just a few of the features that make this system one of the best values on the market. So, if basic imaging is the clinical objective then the ECO-CX9 provides excellent value for the money.



Monitor Cart

ECO-CX9 C-ARM MOBILE

**HIGH FREQUENCY GENERATOR WITH
DIGITAL CCD CAMERA**

FEATURES

- Superior Image Performance
- Compact and Ergonomic Design
- Easy to handle & safe to operate
- High Frequency Generator : 2.2kW output
- High resolution I.I : 9 inch I.I (Triple filed mode)
- Pulsed fluoro mode for dose reduction
- Boost fluoro mode : 10mA for Hi-contrast
- Auto Brightness Control (ABC)
- Large C-arm structure for optimum positioning
- Dual LCD 17 inch Flat Panel Monitor on the Cart & LIH
- Power Requirement : 110/220VAC, 50/60Hz



ECO-CX9

SYSTEM SPECIFICATION		
ECO - CX9		
X-ray Generator		
Type		High Frequency Generator (40kHz)
Fluoroscopy	Normal mode	40 - 110kV / 0.2 - 4.0mA
	Pulsed mode	3 Pulse Per Second, Fixed
	Boost mode	5mA - 10mA
Radiography	mAs range	0.4 - 100mAs (25 steps)
	kV/mA range	40 - 110kV / 20mA Fixed
Generator Capacity		2.2kW
X-ray Tube		
Type		Fixed anode, DF-151SBR, Toshiba
Focal spot (Heat capacity)		0.5 / 1.5mm dual focal spot (45,000HU, 35.5kJ)
Anode angle (Filtration)		16° anode target angle (0.8mm Al @ 50kV)
Image Intensifier		
Input field size		9" (6" - Optional)
Limiting resolution		48lp/cm (10% Area Contrast ratio 25:1)
Grid		103 lines / inch, 8:1 ratio, 40" FD
TV Camera unit		
Type		CCD : 768(H) x 494(V) [1,360(H) x 1,040(V) - optional]
Image capture		Last Image Hold (LIH) & 16 frames storage.
Monitor size		17"
Image reverse		Horizontal / vertical
Image Rotation		Image Rotation (360 degree)
C-arm movement & Dimension		
Free Space in Arc		740mm (9")
Depth of Arc		670mm
Orbital Rotation		120° (-30° - + 90°)
Horizontal travel		200mm
Vertical travel		400mm
Panning Motion		± 12.5°
Arm rotation		± 180°
Motion lock		Friction locks for all movements
Steering Handle		Handle controls the two front wheels
Wheel brake		Dual foot-peddle brake
Other information		
Power requirement		Max. Input power: 3.5KVA
		Line Voltage: 220VAC, 50/60Hz
		Line Current: 23A / 220VAC for full output

※ Above technical specifications can be modified without prior notice.

ECO-CX9 C-ARM MOBILE

HIGH FREQUENCY GENERATOR WITH DIGITAL CCD CAMERA

DIGITAL IMAGE MANAGEMENT SYSTEM (OPTIONAL)

The advanced Digital Image Management System will make you stay in the reliable position to manage the image taken and strong database solution will support users in different ways. We also provide conveniences of post image processing with the tools of enhancements.

It is easy, simple and effective.



1. SYSTEM SPECIFICATION :

- Pentium IV processor & Window XP
- 512 MB RAM to 2 GB (Optional)
- 160 GB, EIDE hard driver
- RS232, Parallel port, USB, IEEE1394
- User-friendly operation with graphical software.
- Keyboard & Mouse

2. Image acquisition : & display

- Image acquisition : 1280 x 1024 Pixel
- Dual display : Live Image : 640H x 512V (24fps)
Study Image : 1280H x 1024V (12fps)
- Multiple display : 1 on 1 and up to 4 on 1
- Automatic & manual image capture
- Exam, Study Review, Image Review & Database mode display.

3. Image Processing :

- Brightness & contrast level control
- Pan & Zoom control
- Image Flip (Horizontal & Vertical)
- Image Rotation (360°)
- Noise Reduction & recursive filter
- Edge Enhancement (Sharpness)
- Histogram & Curve control
- Gamma Correction
- Cine- Run acquisition (Optional)

4. Image Management :

- Create a patient file & database
- DICOM 3 interface
- Networking to PACS (Sending DICOM file to PACS Server)
- Networking to RIS/HIS (Worklist)
- Local Printer connection
- Study review with database
- Image review with DICOM file

5. Overlay Image Data & Display

- Patient registration, Study & review
- Text & Measurement annotation
- Symbol annotation : Circle, arrow, square ... etc.

6. Image Storage :

- Up to 180,000 images on 160GB Hard disk
- JPEG compression
- Convertible to a general format (BMP, TIF, JPG)

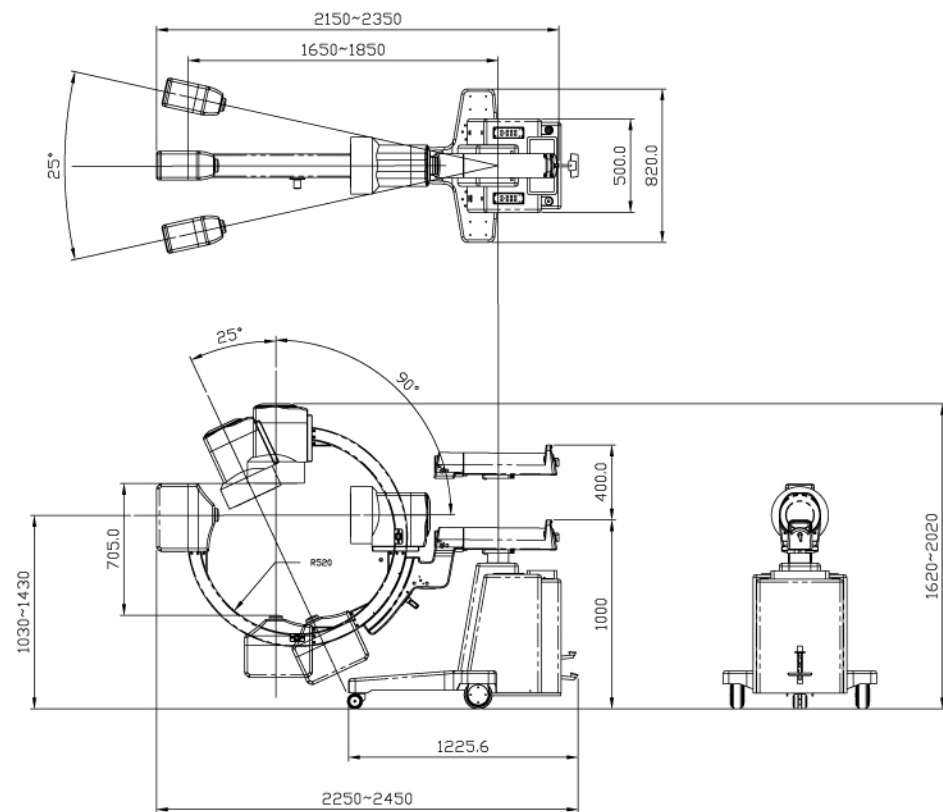
HIGH FREQUENCY GENERATOR WITH DIGITAL CCD CAMERA

ECO-CX9 C-ARM MOBILE

Operation Panel



Overall Dimension



(unit : mm)