



## Xenox M90

Mobile x-ray system



# ***STERNMED***<sup>®</sup>



## **Xenox M90**

**Mobile x-ray system**

The Xenox M90 is a mobile x-ray unit designed for radiological examinations at the patient's bed and in the Emergency Room. It is equipped with a touch screen control panel to display and set the radiographic parameters.



## FEATURES

- Protection and automatic control of filament current
- Protection from over current and over voltage (kv, ma)
- Protection from maximum load of x-ray tube
- Operator error or malfunctioning indication
- Swiveling front wheels in anti-static rubber
- Big rear wheels ø 43,5cm
- Dead-man brake system
- Container for 6 x-ray cassette
- Variable focus-floor distance 60-202cm
- Rotation of monoblock supporting fork +90° / -180°
- Rotation of monoblock in fork 0° / +90°

## OUTSTANDING

- Perfect distribution of the weight in the equipment, the center of gravity is in an ideal position to make the equipment easy to handle and move.
- Xenox M90 can easily overcome small obstacles, such as the difference in level between the bottom of the elevator and the hallway
- The „dead man“ brake system, instead of the usual foot brake, is a passive safety device that is engaged if the device is accidentally released during downhill transportation
- Its limited overall dimensions allow the operator to have good visibility during transportation and when passing through the small doors of older hospital structures
- Thanks to the handle with off-center rotation the equipment is easy to position anywhere
- The rotation function of the arm in relation to the vertical axis has an automatic return device that reduces the extension, thus guaranteeing the stability of the equipment in any standard position of use
- The particular geometry of the supporting arm of the radiological source enables the use of this equipment even in neonatal and adult intensive care units, where maneuvering spaces are usually limited because they are occupied by the lifesaving equipment
- The control desk is controlled by a microprocessor with digital display of the radiological parameters
- It allows for an easy and rapid interpretation and selection of the examination parameters through the TFT touch screen
- The control software developed in windows® environment can be updated using a standard pc with serial port
- The innovative control functions include the thermal units of the x-ray tube, the filament current.
- The three-size examination modality selection (human anatomical figure), automatic control of exposure times, the setting of the examination parameters with three-point (kv, ma, s) or two-point (kv, mas) technique and the three-speed selection on the supporting screen
- The technology used to create the man-machine interface (an innovation compared to the standard market products), improves the operational performances of the device
- The arm has an articulated joint with double four-bar linkage system, balanced independently,
- the function of the arm group is to support the radiogenic source hanging over the operating space and keep it at right angle with the examination surface.
- The attractive design and the colors have been chosen to limit the emotional impact on the patient taking into account the ergonomic features linked with the practical use of the unit





10.4" touch screen display



LCD display 20x4 characters

## EXCELLENT CLINICAL IMAGES



## TECHNICAL SPECIFICATIONS

### Xenox M90 | SternMed Mobile x-ray system

X-RAY GENERATOR	30	40	30P
high frequency generator type		monoblock	
max power	30kW (100kV-320mA-0.1s)	40kW (100kV-400mA- 0.1s)	30kW (95kV--320mA-0.1s)
max voltage		125kV	
max current	400mA	500mA	400mA
max mAs	320mAs	400mAs	250/320mAs
mAs Selection	in 31 values from 0.1 to 320mAs	in 32 values from 0.1 to 400mAs	in 25 values from 0.5 to 250mAs (110V line) • in 26 values from 0.5 to 320mAs
kV selection	continuously from 40 to 125kV		
mA selection	in 10 values from 50 to 400mA	in 11 values from 50 to 500mA	in 10 values from 50 to 400mA
selection of exposure times	• in 32 values from 0.003 to 6.3s • in 33 values from 0.001 to 6.3s (upon request)		
safety devices and guards	• protection and automatic control of filament current • protection from over current and over voltage • protection from maximum load of X-ray tube • operator error or malfunctioning indication		
Ripple frequency	40		
Ripple	1%		
Monoblock thermal capacity	825kJ-1103kHU		
X-RAY TUBE			
Anode rotating speed		3000 rpm	
focal spot	0.6-1.3mm	0.75-1.25mm	0.6-1.3mm
anode material	RTM	RTM	RTM
anode angle		15°	
thermal capacity	80kJ-107kHU	224kJ-300kHU	80kJ-107kHU
continuous anode thermal dissipation	Max 300W	Max 750W	Max 300W
CONTROL DESK			
type	10.4” touch screen display		LCD display 20x4 characters
OPERATING MODALITIES			
Techniques	• 2-points (kV,mAs) • 3-points (kV,mAs,time)		
Programmed anatomical parts	198		84
Part sizes	6 different sizes		3
Additional functions	• collimator lamp ON/OFF switch also from the touch panel • possibility to switch potter Bucky ON/OFF • X-ray button with double release with extension cable up to 4 meters		
	• USB output for software updating • 7m power cord with spring operated cable reel (optional)		• RS232 output for software updating

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#### POWER SUPPLY

Standard	voltage 230V $\pm$ 10%, 50/60Hz, 16A max
Optional	240V or 110V
Line resistance	0.4 $\Omega$

#### COLLIMATOR

Type	multiple layer blades with manual control
Collimation area	variable field from 0x0 to 43x43cm at 100 cm DFF
Lamps	high intensity halogen/LED lamp 160lux at 100cm ON/OFF timer of lamp at 30s
Collimator rotation	$\pm 90^\circ$
Other features	extractible measurement tape to control DFF

#### MECHANICAL

Wheels	<ul style="list-style-type: none"> <li>• swivelling front wheels in anti-static rubber</li> <li>• big rear wheels Ø 43,5cm</li> </ul>
Brake system	dead-Man
Cassette holder	for 6 X-ray cassette 35x43cm
Focus-floor distance	60-202cm
Arm rotation	$\pm 90^\circ$
Rotation of monoblock supporting fork	$+90^\circ / -180^\circ$
Rotation of monoblock in fork	$0^\circ/+90^\circ$
Dimensions during transportation	120x67x161h cm
Weight	215kg

#### ACCESSORIES UPON REQUEST

Possibility of connection to a D.A.P. (kerma measurement system for area) with relative thermal printer. The DAP value is visualized on the 10.4" display



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