



STERNMED[®]



Xenox M100 Plus

Motor driven mobile DR x-ray system



www.sternmed.de

Xenox M100 Plus

Motor driven mobile DR x-ray system

The Xenox M100 Plus is a fully digital, motor-driven mobile x-ray with an amorphous silicone flat panel. In the Xenox M100 Plus, the High Frequency Stable Operating Technology provides the stability to generate quadrate waves to give better penetration for the tube. The tube and main unit are protected against overheating by a safety circuit that constantly monitors the tube's heat capacity.



FEATURES

- WIFI connection
- Amorphous Silicon Flat panel technology
- Dual display interface (VGA/DVI)
- 2 USB ports
- Cable network interface
- Four keys unlock buttons design
- Dual motor driven
- respectively control left and right driving wheel
- 19" touch screen display
- 500GB hard drive capacity
- Windows operation system
- Dicom 3.0 Interface for PACS or HIS

ADVANCED TECHNOLOGIES

HSO technology

(High-frequency stable operating technology)

With the advanced high-frequency stable operating technology, the generator produces a stable square wave, and the tube offers high penetration and high quality X-ray.

IOP technology

(Intelligent overload protection technology)

The anti-overload circuit of the tube constantly inspects the X-ray tube heat capacity to protect the tube and main unit.

PEA technology

(Precise exposure alarm technology)

When the operator finishes the accurate exposure or sets up the illogical exposure parameters, the buzzer will alarm and display on the main unit immediately.



OPTIMIZED CLINICAL WORKFLOW AUTOMATIC IMAGE PROCESSING

Xenox M100 Plus is a digital mobile radiography system with digital FPD technology, and fast digital image display on the control monitor. It enables a daily workflow without interruption- no cassettes, no waiting time for cooling or recharging of the detector. The unique touch screen allows easy control of the desired examination. Compared with analog unit, the digital filmless images are displayed on the touch screen instantaneously after exposure.

In addition, Xenox M100 Plus allows basic image processing to function directly, such as adjusting brightness contrast, and edge enhancement etc. After exposure, the images can be processed automatically with the self-installed software. Compared with analog unit, there is no need of exposure again when parameters or operations happened to be missing.

OUTSTANDING OPERABILITY

Xenox M100 Plus provides you with faster and optimized clinical workflow. With the compact design, outstanding imaging power, easy maneuverability and positioning with dual motor driven, Xenox M100 Plus offers you more digital advantages and 240 exposures with one time battery charge.

SUPERIOR DR IMAGE QUALITY

With the advanced HSO, IOP, PEA technologies and high quality imaging system, our Xenox M100 Plus offers you high spatial resolution, high density resolution, and high sharp images.



OUTSTANDING FEATURES

- 32KW rated power suitable for wide clinical applications
- Telescopic Arm for different X-Ray positions
- User-friendly workstation with 19" touch screen Display
- Advanced APR function
- Advanced WIFI Flat Panel Technology-Amorphous Silicon
- 240 exposures with one time battery charge
- Fast bedside imaging
- Automatic image processing
- Multiple peripherals including USB, DICOM
- Cutting-edge image quality
- Intelligent anti-collision design

EXCELLENT CLINICAL IMAGES



TECHNICAL SPECIFICATIONS
Xenox M100 Plus | SternMed motor driven mobile DR x-ray system

HIGH VOLTAGE GENERATOR	
Standard output power	32 kW Max output power :40 kW
mA range	10-400 mA
Tube voltage range	40-150 kV
mAs range	0.1-500 mAs
Load time range	0.001 s 6.3 s
Input voltage	336 VDC ±10%
High voltage transformer structure	The power frequency
X-RAY TUBE	
Focus	0.6/1.2 mm
Anode heat capacity	150 kHu
Anode types	rotating anode, maximum speed: 3200 rpm
Pipe sleeve heat capacity	1250 kHu
The maximum voltage	150 kV
The anode input power	Big focus: 50 kW, small focus: 22 kW
Anode angle	12°
The inherent filtration	1.3 mm Al / 75 kV
COLLIMATOR	
The inherent filtration	1.2 mm Al /70 kV
Collimator lights	equipped with LED lights (Bright 30 s are automatically extinguished) Collimator is built into measuring ruler
TUBE BRACKET STRUCTURE	
X-ray tube support way	cross arm
Tube focus distance to the ground	570 mm ~ 1800 mm, ±5
Telescopic Arm Length Range	710 mm ~ 1240 mm, ±5
Column Rotation Range	± 270°
Tube Tilting Angle	± 180°
Tube Vertical Rotation Angle	- 30° ~ + 90°
Collimator axial rotation	± 90°
DETECTOR	
Connection	WIFI
Detector type	Amorphous Silicon Flat panel technology
Detector valid exposure size	420 × 344 mm
Pixel size	150 μm
Effective size	14 × 17inch
Gathering matrix	≥ 2288 × 2784 pixels
Spatial resolution	≥ 3.3 lp/mm
Pixel gray level	≥ 14 bit
Detector cooling mode	natural cooling
Imaging time	≤ 5s

TECHNICAL SPECIFICATIONS
Xenox M100 Plus | SternMed motor driven mobile DR x-ray system

DIGITAL IMAGE WORKSTATION	
CPU	CORE i3
Memory capacity	4 GB
Hard drive capacity	500 GB
Display size	19" touch screen display
Display screen Maximum resolution	≥1280 × 1024
Operating system	Windows
IMAGE ACQUISITION SOFTWARE	
Patient registration	acquisition, find the patient data, to prepare for the photography
Radiographic examination setting	system parameters, exposure photography and get the image Images display, image analysis, processing and output
Data management	managing patient data, leading in, leading out , batch file, etc in accordance with DICOM3.0
Configure calibration	Configure calibration: the system components such as flat-panel detector, such as tube for automatic configuration and calibration
System diagnosis	monitoring system status, diagnosis of the system fault
Image Printing	Image Output to Film Printer
BATTERY	
Power supply way	storage battery supply
Battery capacity	Maximum 240 exposures, each time 100 mAs, chest image dosage (exposure conditions: 70 kv, 100 mA, 0.5S
Safety measure	Not allow wall charge when exposed
Support	Hand switch and remote control
SPECIFICATIONS	
Mobile mode	Infinitely variable speed
Working mode	Intermittent loading, continuous operation
Dimensions (W x L x H) mm	670 x 1235 x 1825 mm
Unit weight	518 kg
Drive mode	dual motor drive, respectively control left and right driving wheel
Collision prevention	obstacle contact sensor
EXTERNAL INTERFACE	
Display interface	Dual display interface (VGA/DVI)
Network data transmission	Wireless network data transmission (WIFI) Cable network interface 2 USB ports
OPTIONS	
	Chest stand
	Moving flat bed
	Grid



STERNMED[®]

