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# Xenox M100

## Mobile DR x-ray system

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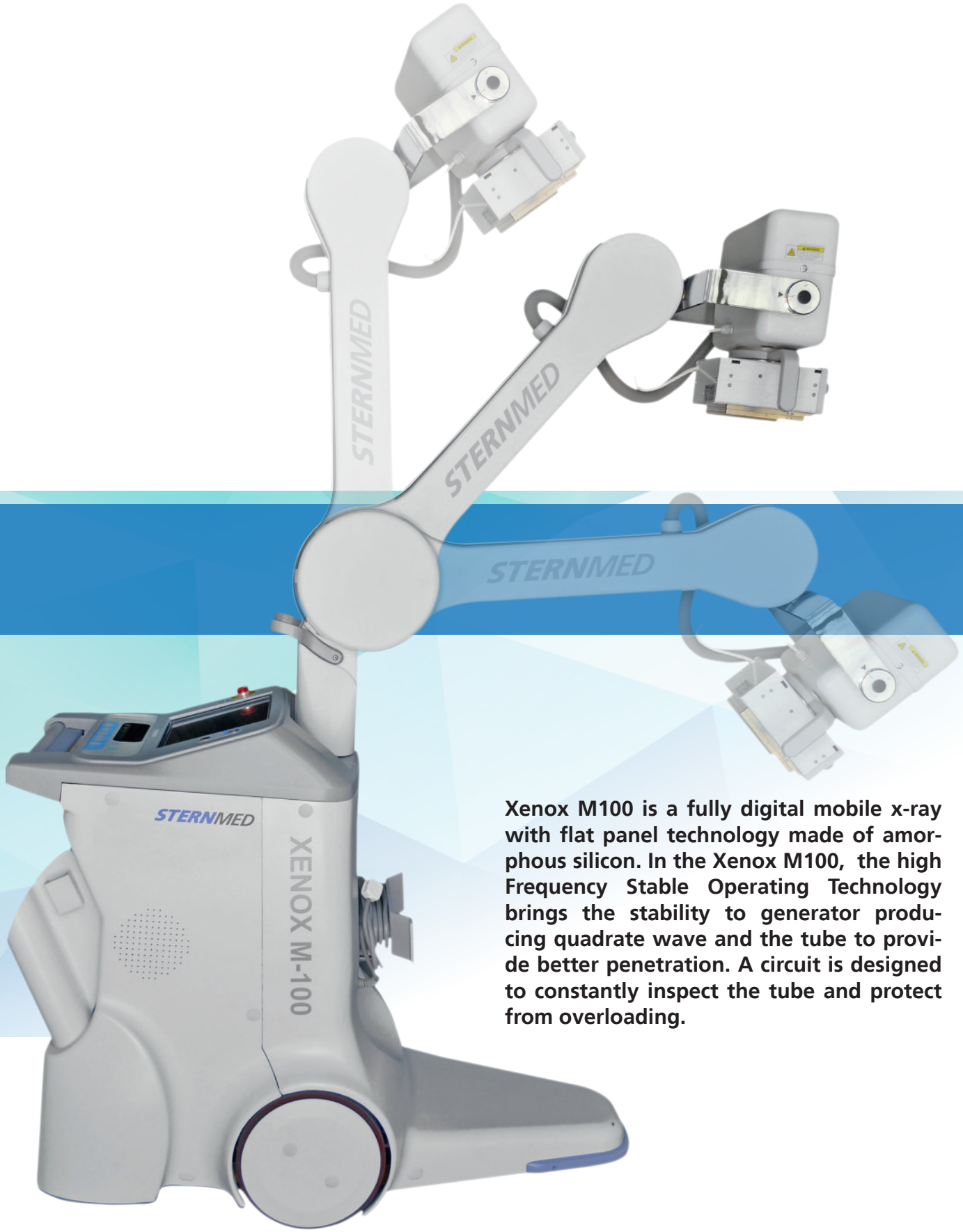


**Xenox M100 is a fully digital mobile x-ray with flat panel technology made of amorphous silicon. In the Xenox M100, the high Frequency Stable Operating Technology brings the stability to generator producing quadrate wave and the tube to provide better penetration. A circuit is designed to constantly inspect the tube and protect from overloading.**

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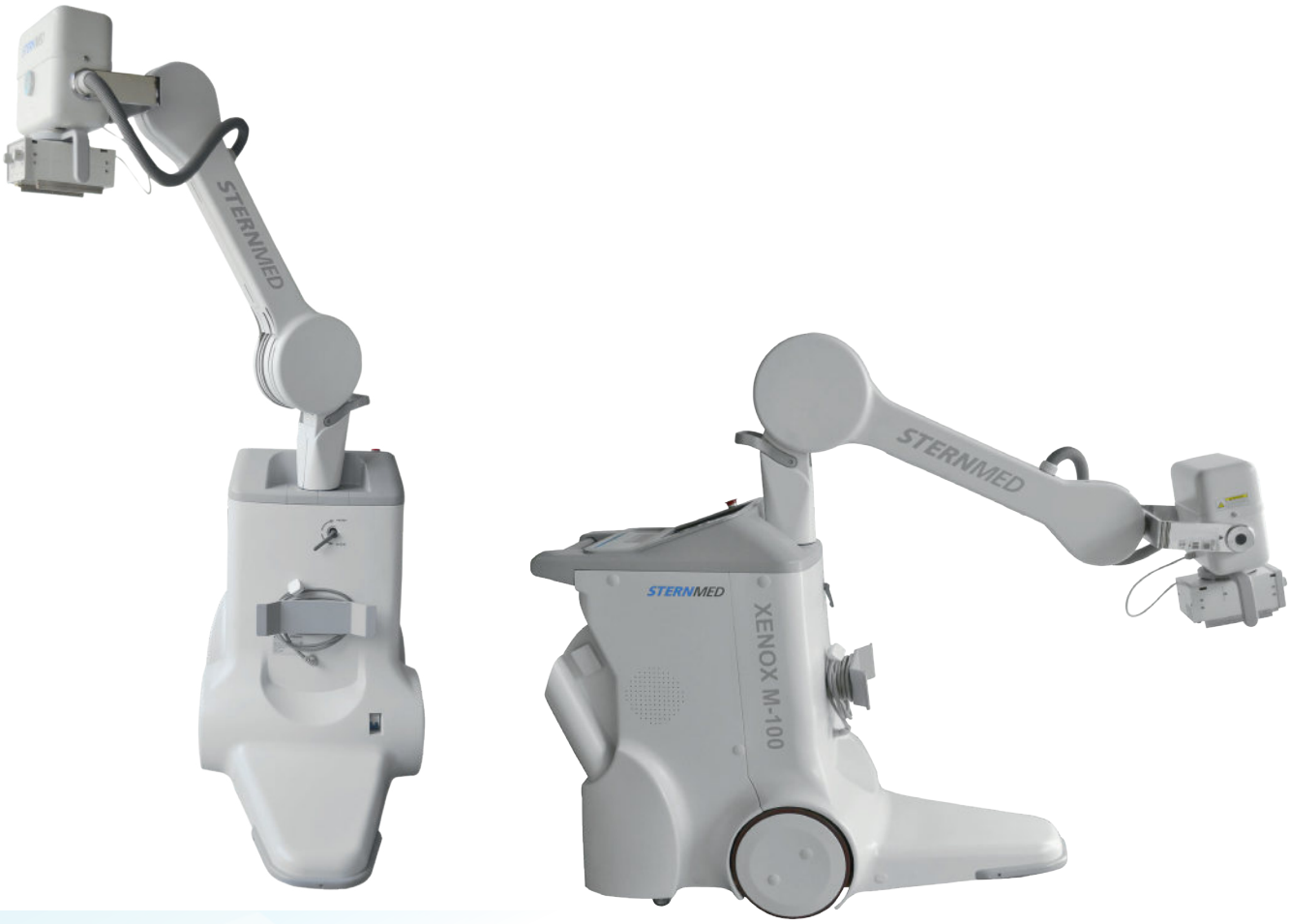


# Xenox M100

## Mobile DR x-ray system

**Surplus X-Ray tube heat capacity to protect tube and main unit. Equipped with a buzzer that alarms and displays on the main unit immediately when operator finishes the accurate exposure or sets up unreasonable parameters. The Xenox M100 provides a faster and more optimized clinical work flow.**

**The APR setting make it possible for X-Ray patients to take a variety of clinical examinations.**

## FEATURES

- Advanced technologies
- Optimized clinical workflow
- Outstanding operability
- Efficient APR function
- Fast bedside imaging
- Automatic image processing
- Fully DICOM compatible
- Superior DR image quality

## ADVANCED TECHNOLOGIES

**HSO technology**
(High-frequency stable operating technology)
With the advanced high-frequency stable operating technology, the generator produces stable quadrate wave, and the tube offers high penetration and high quality X-ray.

**IOP technology**
(Intelligent overload protection technology)
The anti-overload circuit of tube incessantly inspects the surplus X-ray tube heat capacity to protect the tube and main unit.

**PEA technology**
(Precise exposure alarm technology)
When operator finishes the accurate exposure or sets up the illogical exposal parameters, the buzzer will alarm and display on the main unit immediately.

## OPTIMIZED CLINICAL WORKFLOW

Xenox M100 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.

## AUTOMATIC IMAGE PROCESSING

In addition, Xenox M100 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 provides you with faster and optimized clinical workflow. With the compact design, outstanding imaging power, easy maneuverability and positioning, Xenox M100 offers you more digital advantages.

## FULLY DICOM COMPATIBLE

The DICOM function facilitates more convenient patient registration. Sending and printing functions enable easy transmission and printing of all X-ray images to the hospital network.

## EFFICIENT APR FUNCTION

Anatomically Programmed Radiography (APR) settings make it possible for X-ray patients to take various examinations, especially for ICU patients. Meanwhile, wrong or missing filters can be eliminated. Most notably, pediatric examinations can be achieved with low X-ray exposure.

## SUPERIOR DR IMAGE QUALITY

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

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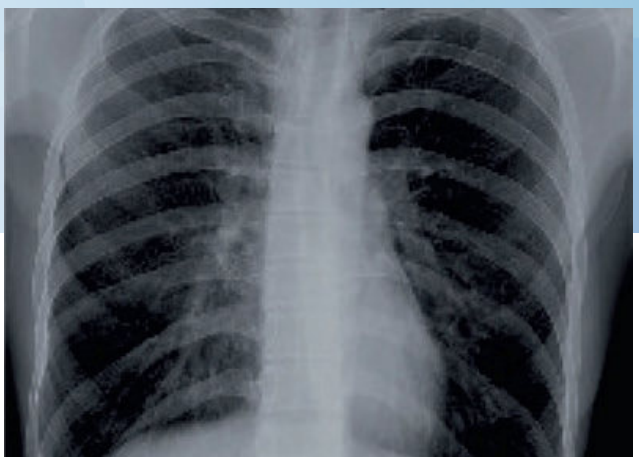
## OUTSTANDING FEATURES

- Light weight
- 30KW rated power suitable for wide clinical applications
- Articulated arm suitable for different X-Ray positions
- User-friendly workstation with 15" LCD touch screen
- Advanced APR function
- Advanced Flat Panel Technology-Amorphous Silicon
- Fast bedside imaging
- Automatic image processing
- Multiple peripheries including USB, DICOM and burning CD
- Cutting-edge image quality
- Intelligent anti-collision design

## EXCELLENT CLINICAL IMAGES



## TECHNICAL SPECIFICATIONS
## Xenox M100 | SternMed mobile DR x-ray system

| | |
|---|---|
| Power Supply | Strd: Voltage 230V ± 10%, 50/60Hz, 16A max. Opt: 115 Vac ± 10% |
| **X-RAY RACK** | |
| Rack Style | Folding arm |
| Height | 1430mm |
| Minimum distance of focus from the ground | 525mm |
| Maximum distance of focus from the ground | 1992mm |
| Folding arm rotation angle | ±90° |
| Could be crossed obstacle height | 25mm |
| Weight | 330 Kg |
| **X-RAY TUBE** | |
| Tube style | Combined |
| Power | 32kW |
| Focus | 0.6/1.3mm |
| Anode heat capacity | 107kHU |
| **HIGH VOLTAGE GENERATOR** | |
| Control mode | Two level exposure, exposure switch cable Stretchable 5 meters length |
| Rated output power | 30kW |
| Inverter frequency | 100kHz |
| Output voltage range | 40~125kV, step 1kV |
| Maximum tube current | 200mA |
| mAs range | 0.5-200mAs |
| Exposure time range | 1ms~1.3s |
| **HIGH PRECISION ADJUSTABLE COLLIMATOR** | |
| Inherent filtration | 2.0mmAl |
| Light field shape | Rectangle |
| Taping | Taping SID |
| **VARIAN DIGITAL FLAT PANEL DETECTOR** | |
| Panel type | Amorphous silicon |
| Panel size | 14×17 inch |
| Pixel matrix | 3072 x 2560 |
| Pixel pitch | 139 μm |
| Conventional spatial resolution | 3.6lp/mm |
| Fill factor | 100% |
| Dynamic output range | 14bit |
| Imaging time | 6s(8s with image processing time) |
| Weight (including housing) | approximately 5kg |
| Cable length | 8m |
| **IMAGE ACQUISITION WORKSTATION** | |
| **COMPUTER SYSTEM** | |
| CPU | Intel Core 2, 2.33GHz |
| RAM | 2 GB DDR2 |
| Hard disk | 320 GB |
| Operation system | WINDOWS XP |
| Peripheral Interfaces | USB, mouse, keyboard |
| Monitor | touching type 15" LCD screen |

# TECHNICAL SPECIFICATIONS
## Xenox M100 | SternMed mobile DR x-ray system

| | |
|---|---|
| **SOFTWARE SYSTEM** | |
| Patient management | Patient information registration, preservation, setting, appointment, query and other functions |
| Examination management | System parameter setting, exposure collection, automatic image processing, etc. |
| Image browse | Image selection, image processing (cropping, scaling, gray adjustment, rotation, flip, tag, window layout, etc.) |
| Image postprocessing | Image enhancement, tissue equalization, noise reduction, gray scale value stretch |
| Image export | Support exporting to laser printer, laser camera DICOM interface and hard disk, etc. |
| Data management | Data deletion, statistics, editing, backup and recovery |
| Other functions | Detector calibration procedure, fault error function, Worklist module, a dynamic password maintenance function, and has the report printing function |
| **OPTIONAL** | |
| **GRID INCLUDING VARIAN GRID FIXING DEVICE** | |
| Size | 498.5X449 mm |
| Grid density | 80Line/cm |
| Grid ratio | 8:1 |
| Grid focal length | 130cm |
| Filter grid type | Fixed carbon fiber materials cover |
| **WIRELESS REMOTE CONTROL** | |
| Wireless remote control exposure distance | 10m |

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