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EXM-40

EST MEDCARE

Cooperated with EST (Shanghai) Medical Equipment. Co. Ltd



MobileSparkler

Mobile Digital X-Ray system

EXM40-DDR

The MobileSparkler is a new X-ray System which provides high quality DR imaging and is easy to be operated. The system can be used from the bedside, to the OR, the ICU, or the emergency and is integrated the big capacity batteries, the assisted motors, the high frequency generator, the high level Capacity tube, and the open interface of the panel detector.

- Safety and reliability
- High-quality image
- Easy operating
- Quickly positioning
- Widely clinical application

Easy operating,
Quickly positioning



Safety and reliability, easy operating



All-in-one Free Buttons

Pressing any of the Airborne free buttons releases the moving locks for the arm, the tube and X-ray tube. This allows positioning to be used.



Cute Body Designing

The Slimmer body and shorter arm parking position maximize the driving visibility. It's more satisfied with people doctor's requirement.



Anti-collision System

To care patients, protect passers, and avoid crashing the device.



Easy to Move

With the assisted motors and new type sensor sensor, the system meets your mobility needs.

High-quality Image



• Broader touch-screen

19" touch screen, both convenient to scan image and easy to adjust for image.

• Energy with batteries

Powered by the high capacity batteries, without electricity on the wall, meets all the mobility needs all over the hospital.

• High-performance industrial computer

Fast image processing, without underlying fault by machine moving. Friendly interface for kinds of 3D interface extend.

• Superior Specifications

32KW output power, high anode heat Capacity tube, digital high frequency generator, abundant APR.





Widespread Use

• Widespread Use

The system is widespread use in all the specific needs for any radiographic examination at the bedside, orthopaedics, paediatric, operating theatre and emergency inner hospital.

• Digitizing the bedside radiographic machine

In order to make good use of the hospital resource, based on the mobile machine, we can upgrade the bedside radiographic machine.

• Outdoors application

It is easy to be applied on physical examination vehicle and ambulance, outdoor emergency and medical relief.



New Mobile Digital X-Ray system

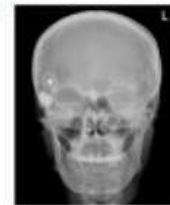
• Smart Rotatable Arm

The design for the smart rotatable arm has the wide region/last degree to make a radiograph.



• Excellent clinical images

With the parameters of high parameters, Bedside DR could obtain the excellent clinical images.



6. TECHNICAL SPECIFICATIONS

6.1. FACTORS

Maximum Power kW	32kW
kVp Range	From 40 kV to 150 kV in 1 kV steps
mAs Range	Product of mA x Time values from 0.1 mAs to 500 mAs
mA Range	From 10 mA to 400 mA
Exposure Time Range	From 1 millisecond to 6.3 seconds
Duty Cycle	Maximum leakage radiation depends on the type of X-ray Tube 18 exposures per hour at maximum mAs (lapse time between exposures: 3 min.)
Invert frequency	40kHz
Flat panel detector	FXRD-1417SA/SB
Image size	35cmX43cm
Image medium	a-Si
Image capture time	≤3s
A/D output	14- bits
Pixels matrix	≥2560×3072
Pixels size	≥140 μm
Spatial resolution	≥3.6 LP/mm
Power Line Operation	Automatic regulation at 220±10%VAC, Single-Phase 50 / 60±1 Hz Automatic Line Compensation ±10% VAC Connection to standard outlets with GND that complies with local regulations The General Circuit Breaker installed in the Mobile Unit is 10 A (1P+N curve type D), the Power Line Installation should be provided with a Differential of 30 mA Sensitivity and with a Thermo magnetic Interrupt or / Circuit Breaker of: ≥13 A (curve type D) or ≥ 20 A (curve type C) or ≥ 32 A (curve type B) Line Impedance should comply with Standard IEC 60601.2.7.
Maximum Input Power	1.3 kVA
Operation independent from mains supply (Stand-Alone)	Standard
Battery Capacity for the Generator	Batteries fully charged voltage at nominal of approx. 336 Volts. Charge Capacity 12Ah The required time for the Batteries to be fully charged is 10 hours. The maximum Storage Energy Capacity can take 400 pictures. If the Mobile Unit is left on in Standby (disconnected from the mains) during 6 hours, it will be 100% discharged from full charge.
Collimator	Manual with electronic timer and meter
Inherent filtration	1.2mmAl
Collimator light on	30s
Light field indicator-luminosity	≥160Lux
Power	24VAC 150W
Storage / Transport	Temperature range of -10°C to 50°C
Environmental Conditions	Relative Humidity range of 10% to 95%
	Atmospheric Pressure range of 700 hPa to 1060 hPa
Operating	Temperature range of 10°C to 40°C
Environmental Conditions	(a temperature of around 22°C is recommended for a longer life cycle of batteries) Relative Humidity (no condensing) range of 30% to 75% Atmospheric Pressure range of 700 hPa to 1060 hPa

