



MobileGenius A

Utilizing cutting-edge technology, MobileGenius A guarantees optimum stability and robustness in radiography constantly. The mobile X-ray makes agile maneuverability available in every situation, while its reliable performance with superior image quality improves diagnostic effectiveness and confidence.

Features:

(1) High Power Generator

High-frequency and up to 50 kW high-power of the generator and large heat capacity of X-ray tube create a strong foundation for output.

(2) Various Modes of Exposure

For more free radiography, the system adopts three modes of exposure, hand switch, remote control, and time-delayed, so that operators can choose a preferred way according to their radiography demands.

(3) Collapsible Column

Cutting-edge collapsible column design offers an unobstructed view during travelling.

(4) Excellent Movement Capability

MobileGenius is capable of 10° climbing. The compact and lightweight design help the equipment move freely.

(5) Micro-inch Mover

For accurate positioning radiography and reducing the time cost, the system offers a micro-inch mover with just one button to help the user achieve inching movement.

(6) Safe and Reliable, Easy to Move

An all-around anti-collision sensor in the front of the system guarantees transport safety.

(7) In-bin Charging*

The detector can be charged automatically in a storage bin, guaranteeing it is ready to use at any time.

(8) Security Lock*

Storage bin is equipped with security lock, it enables a more safe device management.

(9) Automatic Winding Reel Charger

The charger adopts an automatic winding reel device, which is easy to clean, disinfect, and store.

(10) Medical-grade Screen

The industry's largest touchscreen (21.5") and ultra-narrow bezels allow for excellent visualization of images. Medical-grade touch screen keeps high standard brightness control to guarantee a better and more clear display of images.

(11) DICOM 3.0 Standard

Compatible with DICOM 3.0, the image workstation supports worklist, storage, and transfer function. The system uses a wireless network to transmit data to the workstation and/or the RIS/PACS system.

Configuration:

No.	Product Name	Amount	Picture
1	X- ray High Voltage Generator	1	
2	X-ray Tube	1	
3	Collimator	1	
4	Mobile Unit	1	
5	Flat Panel Detector (FPD)	1	
6	Wired Hand Switch	1	
7	Wireless Hand Switch	1	
8	Software Integration DAP*	1	

*This product data may contain references to products that are not available in your country. Please contact us to check the availability of these products in your country. Specifications and appearance are subject to change without notice.

Technical Specification:

1. X- ray High Voltage Generator

1	Nominal power	50 kW
2	Tube voltage range	40 - 150 kV, in 1 kV steps
3	mA range	10 - 630 mA
4	Load time range	1 ms - 6.3 sec
5	mAs range	0.1 - 360 mAs
6	Inversion frequency	High-frequency generator, 50 kHz

2. X-ray Tube

1	Type	Rotating anode, 3200 rpm
2	Focus	0.6 / 1.2 mm
3	Anode heat capacity	150 kHU (111 kJ)
4	X-ray tube assembly heat capacity	1250 kHU
5	Anode input power	Large focus: 50 kW, small focus: 22 kW
6	Inherent filtration	1.3 mm Al / 75 kV

3. Collimator

1	Type	Manual collimator
2	Inherent filtration	1.2 mm Al
3	Light field indicate	Collimator is equipped with LED lights (30s auto-off timer)
4	Measurement	Built-in tape measure
5	Illumination	More than 160 Lux
6	Radiation field	45 x 45 cm @ SID 1m
7	Rotating angle	$\geq \pm 90^\circ$

4. Mechanical Parameters

1	Movement mode	- Motorized with infinitely variable speed, 5 km/h max. - Support micro-inch control of the machine forward and backward movement
2	Structure	Collapsible column with three-section telescopic arm
3	Tube focus distance to the ground	600 mm to 2000 mm, $\pm 10 \%$
4	Telescopic arm length	730 mm to 1250 mm, $\pm 5 \%$
5	Column rotation range	$\pm 325^\circ$
6	Tube tilting angle	$\pm 180^\circ$
7	Tube vertical rotation	-30° (down) to $+90^\circ$ (up)
8	Dimension	1250 x 550 x 1250 mm (L x W x H) $\pm 10 \%$
9	Charger cable	Automatic winding reel, 3 meters long
10	Weight	440 kg $\pm 10 \%$ (excluding the detector)
11	Collision prevention	Obstacle contact sensor
12	Exposure mode	Support hand switch, remote control and time-lapse exposure

5. Wireless Flat Panel Detector

1	Technology	WIFI connection, Amorphous Silicon, CsI scintillator
2	Active area	14 × 17 inches
3	Pixel size	100 μm
4	Pixel matrix	3500 × 4300 pixels
5	Spatial resolution	5.0 lp/mm
6	A/D conversion	16 bits
7	DQE (Typical values)	73.4 % @ 0.0 lp/mm
8	Weight	3.0 kg
9	Charging time	4 hours
10	Full image time	3 s

11	Water proof	IP 56
12	Battery autonomy	≥ 6 hours
13	Static Loading	300kg Uniformly

6. Digital Image Workstation

1	Direct digital type	Direct digital image workstation
2	CPU frequency	☞ Core i3, Core i5 or more; ☞ More than 3.2 GHz;
3	Memory capacity	4 GB
4	Hard drive capacity	500 GB
5	Display size	21.5-inch medical grade touch screen
6	Connection	WIFI, USB ports, Ethernet, etc

7. Image Acquisition Software

1	Log in	Different accounts can be created with different permissions.
2	Patient information	Enter patient information manually
		Acquisition from RIS/HIS through Worklist function
		Support emergency registration
3	Parameters setting	Multiple APRs can be selected
		kV, mA, ms, focus size can be adjusted
4	Image processing	Brightness and contrast adjustment
		Zoom, cropping, rotation, inversion, etc.
		Modify the LUT setting
5	DICOM functions	DICOM 3.0 compatible
		Storage, Export / Import, Send, Worklist, MPPS, Print, Query / Retrieve, MWM, etc.
6	Status indicator	Working status of X-ray tube, detector, etc.
		Error messages will be shown
7	DAP*	The software adopts Dose Area Product (DAP) to calculate and monitor the radiation dose

8. Power Specification

1	Power supply mode	☞ AC power supply ☞ Built-in lithium-ion battery power supply
2	Input voltage	100-240 VAC $\pm$ 10%, Single Phase
3	Frequency	50 Hz / 60 Hz
4	Input power	1.8 kVA
5	Resistance	$\leq 0.55 \Omega$

9. Environment Specification

1	Operating temperature	10 °C - 40 °C
2	Operating humidity	30 % - 75 %
3	Operating atmospheric pressure	700 hPa - 1060 hPa
4	Transportation and storage temperature	-10 °C - 50 °C
5	Transportation and storage humidity	10 % - 95 %
6	Transportation and storage atmospheric pressure	700 hPa - 1060 hPa

10. International Certificate

1	ISO 13485:2016 Medical devices - Quality management systems - Requirements for regulatory purposes
2	ISO 9001:2015 Quality management systems - Requirements
3	ISO 14001:2015 Environmental management systems - Requirements with guidance for use



Shenzhen Browiner Tech Co.,Ltd

Tel: +86-755-2691 7186

Web: www.browiner.com

Email: intl-market@browiner.com

Add: Room 501, Building C, Ganghongji High-tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Street, Nanshan District., Shenzhen, 518055, P.R. CHINA.