

MobileArt Plus

SHIMADZU Cordless Mobile X-ray System MUX-100H Series

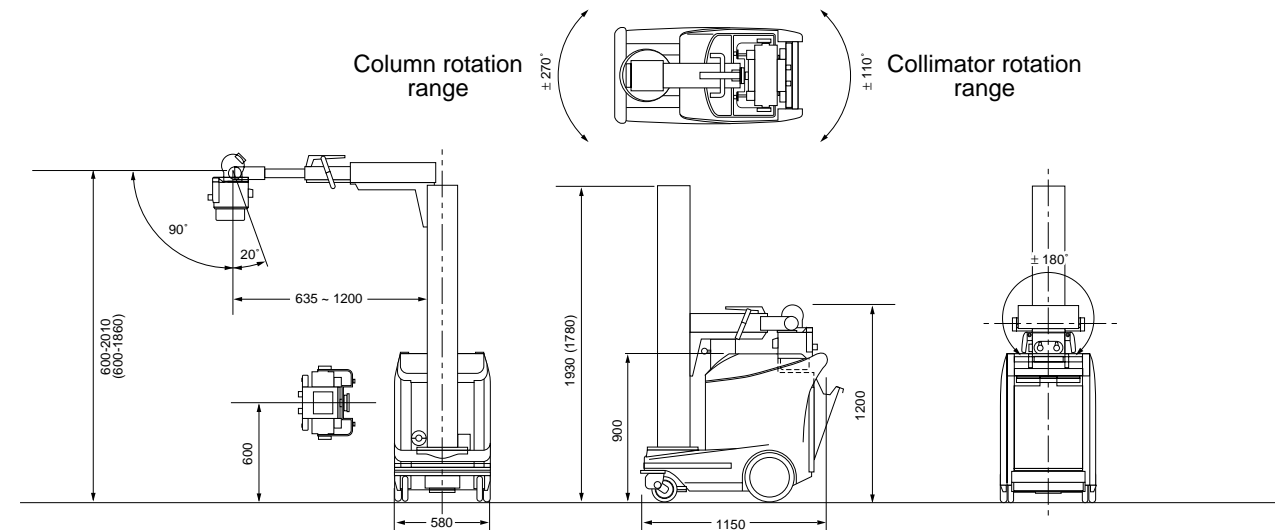
Specifications

X-ray generator		X-ray tube support structure and trolley	
Control method	Inverter method, max. frequency 60kHz	Transfer method	Electric operation
Rating	12.5kW	X-ray tube support method	Telescopic arm
Tube voltage range	40-125kV (1kV steps)	Focus height	600-2010mm (600-1860mm ^{*1})
mAs range	0.32-320mAs (12.5% steps)	Arm length	635-1200mm
Max. current	160mA	Column rotation range	± 270° (exciting open type electromagnetic lock)
Anatomical program	72 items	Tube rotation around tube support axis	± 180° (friction lock)
X-ray tube device		Tube rotation around tube axis	Forward min. 90° back min. 20° (friction lock)
Max. anode heat capacity	300kHU	Travel speed (km/h)	5 ± 0.5 (values may vary with floor condition)
X-ray tube focal spot size	0.7mm	Column height	1930mm(MUX-100H), 1780mm(MUX-100HJ)
Target angle	16	Total width	580mm
Power for charging	Single-phase current: 50/60Hz, 1kVA	Total length	1150mm
	Voltage: 100, 110, 120, 200, 220, 230, 240V	Total weight	370kg
	Power plug: 3-pin plug (grounding type 2-prong)	Cassette storage	Light cassette 14" x 17" 10 sheets or 15 sheets ^{*2}

^{*1}: In case of MUX-100HJ
^{*2}: Optional

Dimensions

unit : mm



Figures in brackets are for MUX-100HJ



SHIMADZU CORPORATION, International Marketing Division

3, Kanda-Nishikicho 1-chome, Chiyoda-ku, Tokyo 101-8448, Japan Phone: 81(3)3219-5641 Fax: 81(3)3219-5710

SHIMADZU MEDICAL SYSTEMS

20101 South Vermont Ave., Torrance, California 90502, U.S.A.

Phone: 1(310)217-8855 Fax: 1(310)217-0661

SHIMADZU EUROPA GmbH

Albert-Hahn-Strasse 6-10, 47269 Duisburg, F.R. Germany Phone: 49(203)7687-0 Fax: 49(203)766625

SHIMADZU (ASIA PACIFIC) PTE LTD.

16 Science Park Drive #01-01 Singapore Science Park, Singapore 118227, Republic of Singapore

Phone: 65-6778-6280 Fax: 65-6779-2935

SHIMADZU (HONG KONG) LTD.

Suite 1028 Ocean Center, Harbour City, Tsim Sha Tsui, Kowloon, Hong Kong

Phone: 852-2375-4979 Fax: 852-2199-7438

SHIMADZU INTERNATIONAL TRADING (SHANGHAI) Co., LTD. SHANGHAI OFFICE

24th Floor, Shanghai Xin Hualian Building, No.755 Huaihai Zhong Lu, Shanghai, China

Phone: 86-21-6472-8442 Fax: 86-21-6472-8648

SHIMADZU MEDICAL SYSTEMS (OCEANIA) PTY. LTD.

Units E, 10-16 South Street, Rydalmere N.S.W. 2116, Australia

Phone: 61(2)9898-2444 Fax: 61(2)9684-4055

SHIMADZU DO BRASIL COMÉRCIO LTDA.

Avenida Marquês de São Vicente, 1771, Barra Funda CEP : 01139-003-São Paulo-SP, Brasil

Phone: (55)11-3611-1688 Fax: (55)11-3611-2209

Overseas Offices

Istanbul, Moscow

URL <http://www.shimadzu.com>

Printed in Japan 6295-07704-30A-IK



SHIMADZU Cordless Mobile X-ray System MUX-100H Series

MobileArt Plus



Shimadzu Corporation Medical Systems Group has been certified by TÜV Rheinland as a manufacturer of medical equipment and systems in compliance with ISO9001:2000 Quality Management Systems and ISO13485:2003 Medical Equipment Quality Management Systems.

Remarks;

- *Every value in this catalogue is a standard value, and it may vary a little from the actual at each site.
- *The appearances and specifications are subject to change for reasons of improvement without notice.
- *Certain configurations may not be available pending regulatory clearance. Contact your Shimadzu representative for information on specific configurations.
- *Before operating this system, you should first thoroughly review the Instruction Manual.

MobileArt Plus

SHIMADZU Cordless Mobile X-ray System MUX-100H Series

**Excellent ease-of-use
with high-quality images
A wealth of functions
to simplify mobile imaging easy**

Light handling

Starts naturally with just a light touch of the handle. The operator's touch is sensitively conveyed to the MobileArt Plus through its pressure sensitive drive handle. Its smooth handling makes it easy to take X-rays during hospital rounds. Many thoughtful features, such as the wide forward field of view and a front safety bumper with automatic-stop sensor, make it a breeze to move the MobileArt Plus around.

Smooth maneuvering

The "All Free" buttons and "Inch-mover" buttons are added to the counterbalance system, which provides extensive control over positioning. By using these buttons, even the most complex positioning can be done smoothly and precisely.

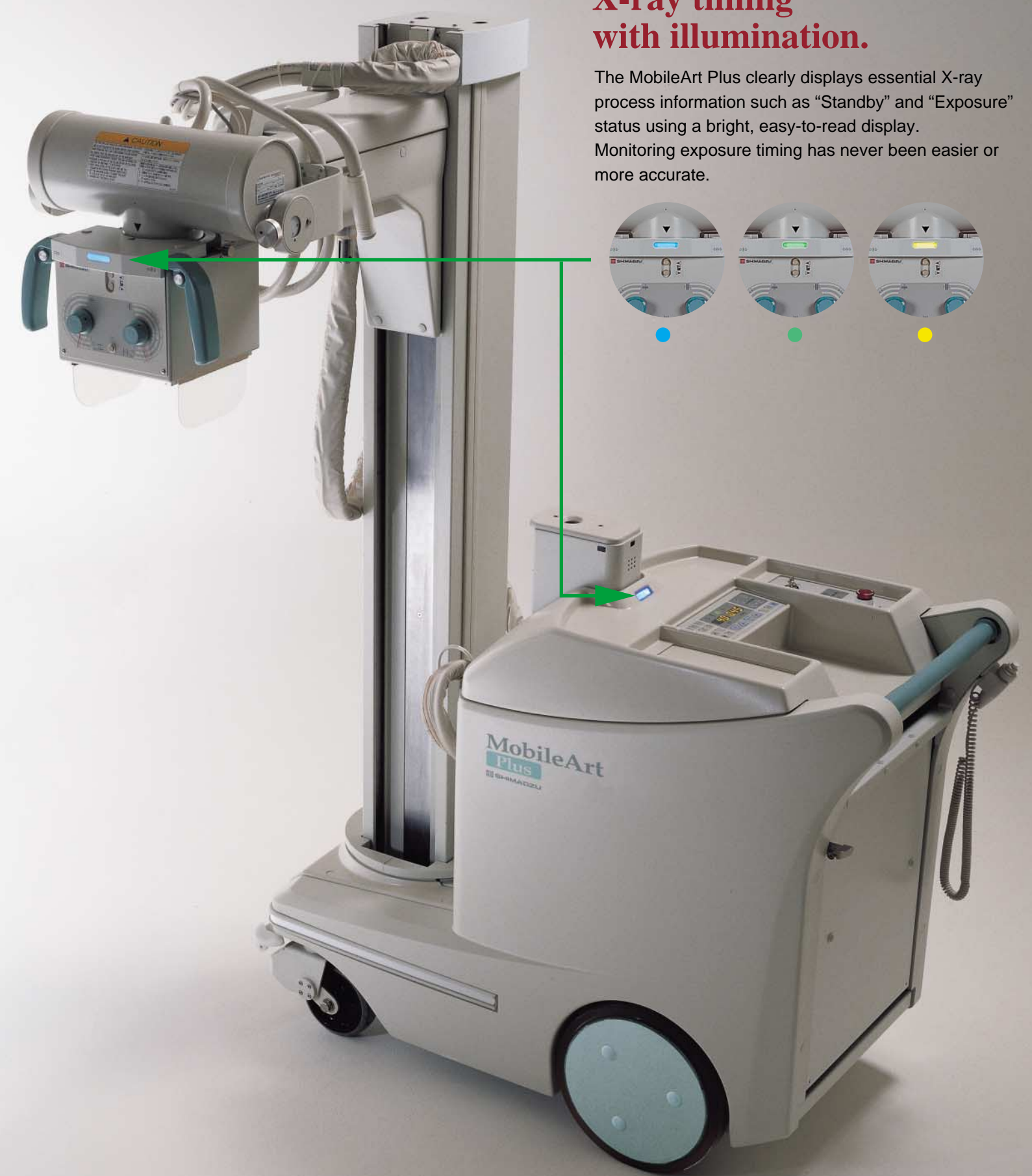
High-quality images

The high-performance inverter incorporated within the MobileArt Plus efficiently produces high-quality images, with minimum radiation dose to the patient. In addition, the extensive anatomical programs allow X-ray conditions to be set intuitively and easily.

New Functions

Clear display of X-ray timing with illumination.

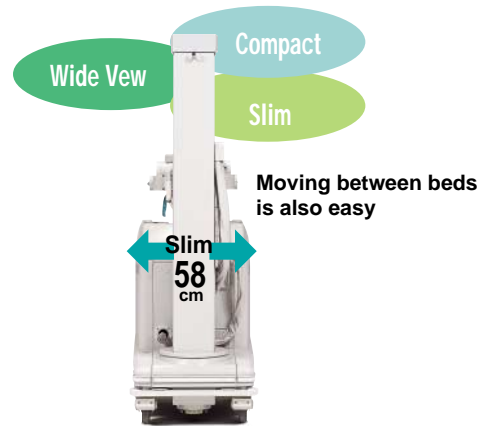
The MobileArt Plus clearly displays essential X-ray process information such as "Standby" and "Exposure" status using a bright, easy-to-read display. Monitoring exposure timing has never been easier or more accurate.



Light, natural maneuvering, and smooth positioning



The MobileArt Plus continuously analyzes the force applied to the handle by the operator to precisely control the dual independent drive motors. A light pressure applied to the drive handle moves the main body in a natural manner as if it were an extension of ones hand, thus the MobileArt Plus is light and easy to control. In addition, the modern compact design gives the operator a clear forward view during travel, while the slim body makes it easy to steer the MobileArt Plus through the narrowest of passageways.



Moving forward and backward at millimeter precision

“Inch-mover” buttons

The MobileArt Plus can be moved forward or backward by using the bedside drive controls located on the front of the collimator. Safety is also a major consideration, if any sudden force is applied to the handle during “Inch-mover” operation, then the MobileArt Plus stops automatically. In addition, X-ray irradiation is also automatically disabled during movement.



Safety bumper

When the sensor on the front bumper senses any slight pressure the MobileArt Plus stops automatically.



Lateral radiography is now smooth and easy.

New Functions Releasing all operation locks at once

“All Free” buttons

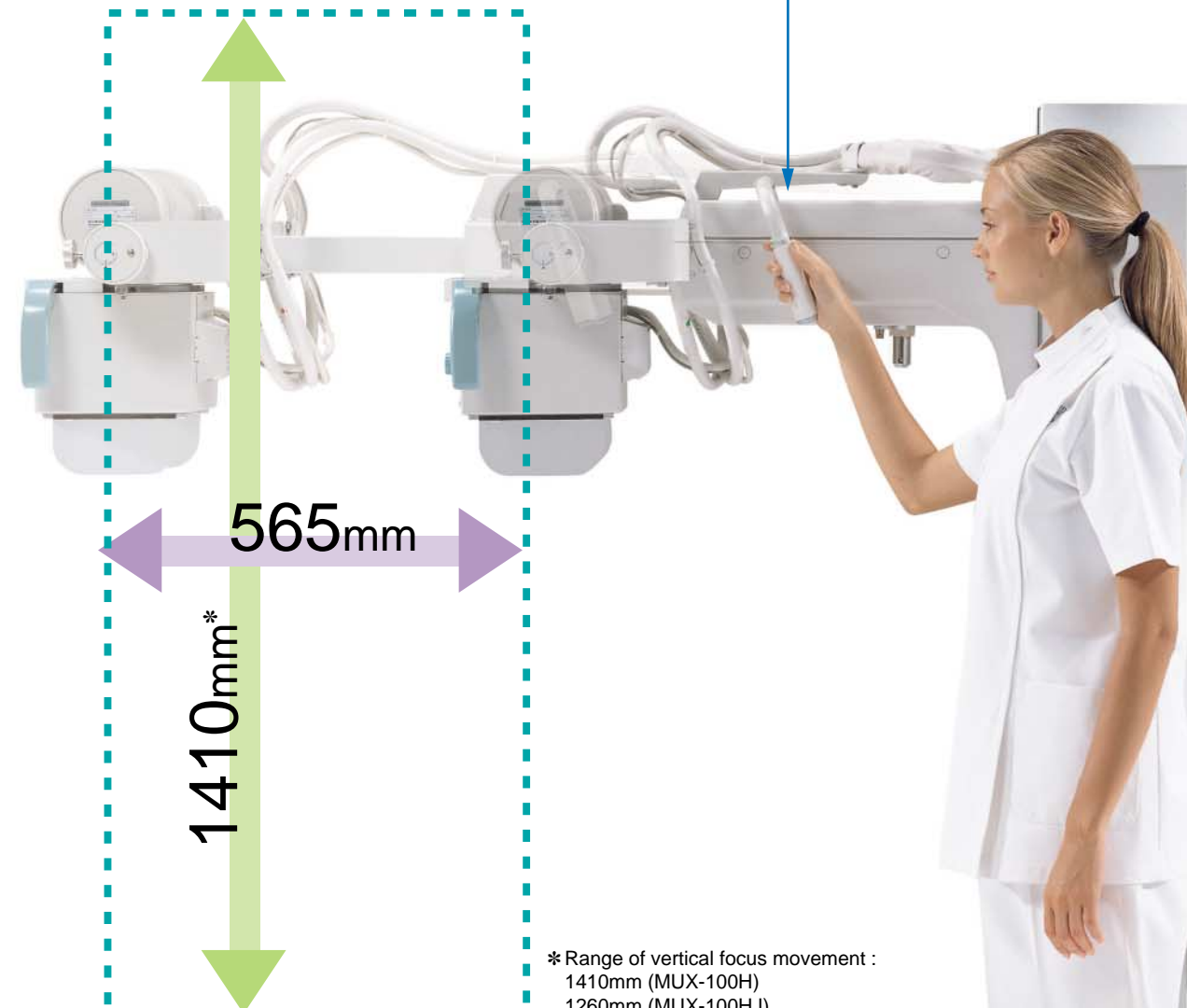
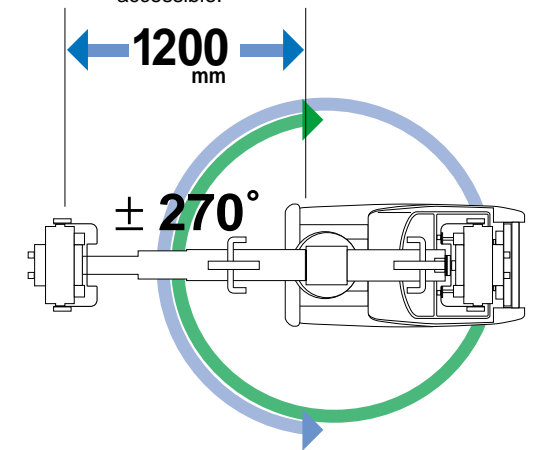
Pressing any of the “All Free” buttons releases the electromagnetic locks for arm rotation, arm extension, and vertical movement of the X-ray tube, thus allowing positioning to be done in one simple step. The counterbalance system enables accurate positioning with smooth operation.



“All Free” buttons

Wide imaging range

The MobileArt Plus has a long stroke on its ultra long arm (up to 1200mm), making even the most difficult of imaging situations accessible.

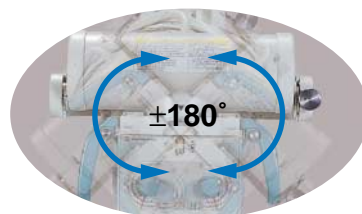


* Range of vertical focus movement :
1410mm (MUX-100H)
1260mm (MUX-100HJ)

Counterbalance system

Accurate positioning with smooth operation

X-ray Tube Rotation



Rotation of collimator

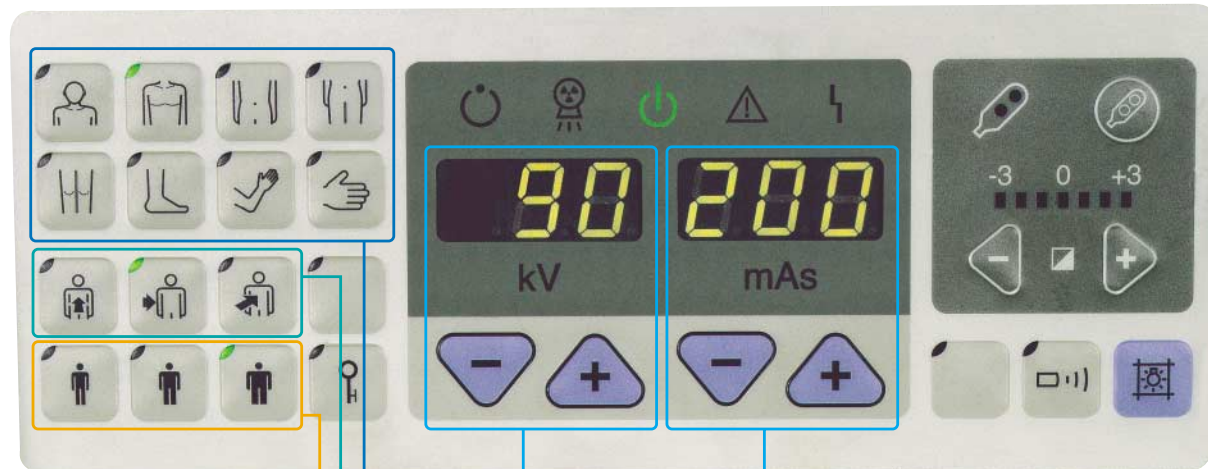


New Function

High-Quality Images with Simple Operation

Easy-to-read display of X-ray process status in large letters, with user-friendly operation panel

The anatomical programs (APR) features with symbolic buttons, contribute to intuitive operation with a minimum number of key strokes. A maximum of 72 combinations of radiographic parameter can be preset for various applications.



Anatomical programs

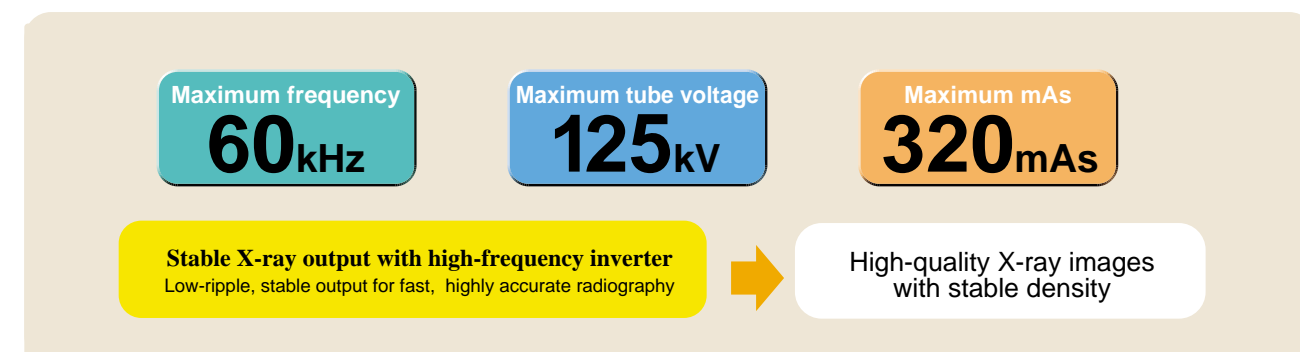
X-ray imaging conditions can be set by simply choosing a target region, image view and body thickness.

- 1kV steps** (8 regions)
- 12.5% steps** (3 views) - mAs settings can be fine-tuned manually.
- 3 types of thickness** (Small, Medium and Large Patients)

High frequency inverter enables high-quality images

The High-Frequency inverter is capable of operating at up to 60kHz, the MobileArt Plus generates low-ripple, stable X-rays for fast and highly accurate radiography.

This means the MobileArt Plus can capture high-quality images with a constant and stable density at X-ray outputs up to 320 mAs.

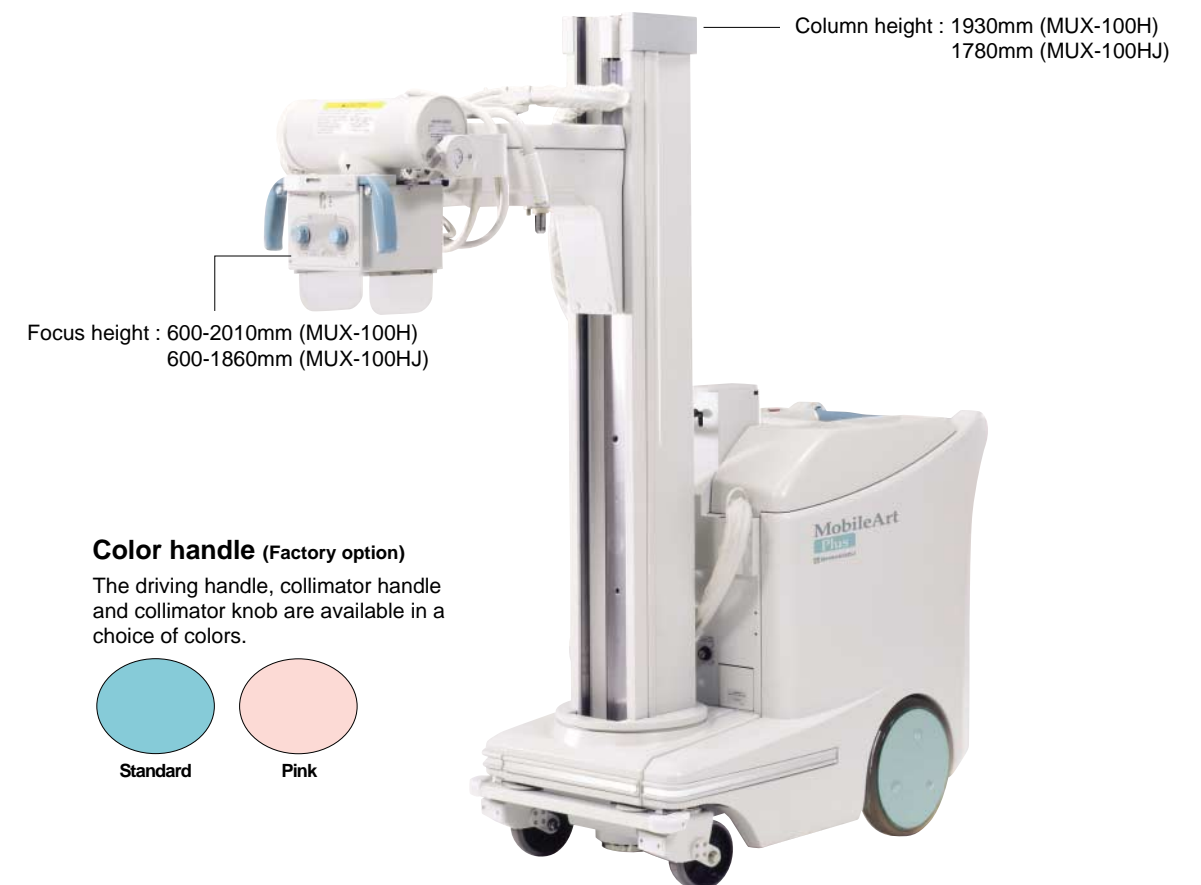


Radiation safety

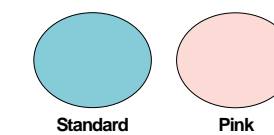
For the radiographer's added safety, the system is designed to work with an optional remote control exposure switch. This feature allows the operator to use distance to enhance radiation safety. The distance will not compromise the efficiency of the user as

the system has large parameter displays for verification of exposure factors.

Abundant options to further enhance functions and performance



Color handle (Factory option)
The driving handle, collimator handle and collimator knob are available in a choice of colors.



<p>Optional</p> <p>Infrared Remote Controller</p> <p>With the infrared remote controller, X-ray irradiation can be executed remotely to minimize the operator's exposure to scatter radiation.</p> 	<p>Optional</p> <p>Large Cassette Compartment (15 sheets)</p> 	<p>Optional</p> <p>Grid Holder</p> 
<p>Optional</p> <p>Protection Partition</p> 	<p>Optional</p> <p>Protection Partition (folding type)</p> 	