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

#### Specifications

<table>
<thead>
<tr>
<th>X-ray generator</th>
<th>Control method: Inverter method, max. frequency 60kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube voltage range</td>
<td>40-125kV (15kV steps)</td>
</tr>
<tr>
<td>mA range</td>
<td>0.32-300mA (12.5% steps)</td>
</tr>
<tr>
<td>Max. current</td>
<td>185mA</td>
</tr>
<tr>
<td>Anomalous program</td>
<td>72 kPa</td>
</tr>
</tbody>
</table>

#### X-ray tube support structure and trolley

<table>
<thead>
<tr>
<th>Tube rotation range</th>
<th>±270˚ (exciting open type electromagnetic lock)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm length</td>
<td>625-1200mm</td>
</tr>
<tr>
<td>Column rotation range</td>
<td>±180˚ (friction lock)</td>
</tr>
</tbody>
</table>

#### Dimensions

<table>
<thead>
<tr>
<th>Column rotation range</th>
<th>±270˚ (exciting open type electromagnetic lock)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Collimator rotation range</td>
<td>±180˚ (friction lock)</td>
</tr>
</tbody>
</table>

* Figures in brackets are for MUX-100HJ

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**Remarks:**

- Every value in this catalogue is a standard value, and it may vary 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.

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URL: http://www.shimadzu.com

Printed in Japan E2/3.2174-20A-4K
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.

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 one’s 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.

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.

Moving forward and backward at millimeter precision

“The 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.

Wide imaging range

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

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

Counterbalance system

Accurate positioning with smooth operation

X-ray Tube Rotation

Rotation of collimator

Lateral radiography is now smooth and easy.
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 12.5% steps
8 regions mAs settings can be fine-tuned manually.
3 views
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