MobileArt Evolution
The Advent of an Advanced Mobile System
Featuring Superb Image Quality and Easy Handling

Modern medical facilities require rapid examinations under a variety of situations.
This newly launched, state-of-the-art mobile system is available in two forms:
the standard type, which further enhances the highly-acclaimed maneuverability and
easy handling of Shimadzu mobile systems and the high-power type,
with 32 kW maximum power output for superior image quality.
This high-power type ensures blur-free images and short exposure times,
even for children and patients who find it difficult to keep still.
The system provides powerful support in medical facilities,
thanks to easy positioning in restrictive locations, and outstanding operability,
which allows intuitive movement of the unit by the operator.
This is truly a reliable mobile system.
Great Image Quality You Can Trust

Blurring suppressed by short exposure time
Images tend to become blurred due to body movements during radiography, especially with children or emergency patients who find it difficult to maintain a fixed posture. The MobileArt Evolution lineup features a high-power type that reduces exposure times. The 32 kW maximum power output delivers excellent image quality and short exposure times. This ensures sharp images with minimal blurring, even if the patient moves.

Simply select one of the 72 preset anatomical programs (APR) to configure the optimal radiography conditions for the corresponding radiography region, direction, and body thickness. The focal spot size can also be preset in the high-power type. The collimator efficiently eliminates X-rays outside of the focal spot, creating sharper images.

Clear illuminated indication of exposure timing
Both Ready Up and Exposure statuses, which largely control the exposure timing, are indicated by the brightly illuminated, easy-to-read indicators. The exposure field lamp also lights up again in the Ready Up status. The exposure timing can thus be accurately confirmed at a distance from the unit, allowing the operator to instruct the patient when to hold their breath.

Illuminated hand switch
The optional illuminated hand switch lights up in different colors to show the Ready Up or Exposure status, providing a clear indication of the exposure timing.

APR buttons for one-touch setup of radiography conditions
Simply select one of the 72 preset anatomical programs (APR) to configure the optimal radiography conditions for the corresponding radiography region, direction, and body thickness. The focal spot size can also be preset in the high-power type. The collimator efficiently eliminates X-rays outside of the focal spot, creating sharper images.

High-Power Type

<table>
<thead>
<tr>
<th>Inverter frequency</th>
<th>Max. 60 kHz</th>
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<tbody>
<tr>
<td>Tube voltage</td>
<td>Max. 133 kV</td>
</tr>
<tr>
<td>Tube current-time product</td>
<td>Max. 320 mAs</td>
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Short exposure times

*) Maximum tube voltage of the standard type is 125 kV.
*) Maximum output of the standard type is 12.5 kW.
Brilliant Driving and Outstanding Operability
Reliable basic functionality delivers superb performance

Low driving noise, ensuring quiet hospital environments
The new silent motor and enhanced unit rigidity further reduce driving noise. Quiet enough for ward radiography even at night.

Safety alarm when driving
To avoid accidents when maneuvering the MobileArt Evolution around crowded medical facilities, an alarm can be used while in motion to alert others to the presence of the unit.

Shock-resistant body design
The body cover has been strengthened to prevent damage should the unit hit an object when moving around the wards. The unique soft-touch bumper automatically stops the unit when even the slightest pressure is detected. The stylish body is designed to be highly shock-resistant.

Intuitive maneuverability
Shimadzu’s acclaimed power-assist function allows the operator to drive the MobileArt Evolution naturally, simply by applying light pressure to the drive handle. The unit moves just as the operator desires, achieving excellent handling when navigating around the wards. The MobileArt Evolution provides unrivalled turning and maneuverability.

Inch-mover buttons
Press the inch-mover buttons on the front of the collimator to inch the unit backwards or forwards. As a safety measure, any force applied to the drive handle during inch-mover operations stops movement of the unit. In addition, an interlock prevents X-ray irradiation while the MobileArt Evolution is in motion.

All Free buttons
Press one of the [All Free] buttons to release all electromagnetic locks on arm rotation, arm extension, and vertical movement of the X-ray tube. An [All Free] button is also located on the arm, to allow column-side positioning as well as from the collimator.

Easy positioning
The counterbalance system ensures smooth operation and accurate positioning. It easily supports fine positioning and multidirectional radiography.

Wide imaging range
The extra-long 1200 mm maximum arm can freely rotate to provide coverage over an extensive imaging range. This provides powerful support for radiography in confined spaces around beds.

Adjustable drive handle height
During installation, the drive handle can be set at 4 cm, 6 cm, or 9 cm above the standard height. This makes ward radiography tasks more comfortable for tall operators.

Wide imaging range
The extra-long 1200 mm maximum arm can freely rotate to provide coverage over an extensive imaging range. This provides powerful support for radiography in confined spaces around beds.
### Striving for Lower X-Ray Exposure Dose

Enhancing patient peace of mind

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**X-ray exposure dose display**

The display on the main unit indicates the calculated or measured X-ray exposure dose, depending on whether the optional dose calculation function or area dosimeter is installed on the collimator. The dose calculation function offers an additional optional function to display the distance from the X-ray tube focal point to the patient.

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### Extra Convenience

Great features help to overcome the restrictions of ward radiography

#### Emergency radiography when the battery is low

The MobileArt Evolution permits radiography in emergencies, even if the battery has run low. It enables emergency radiography even before recharging the battery.

#### Additional hand switch

To permit improved patient care, an extra illuminated hand switch can be installed on the front of the unit (column side).

#### Keyless access

Setting passwords for each operator allows them to use the system without a key.

#### Illuminated indicator supports remote operation

The Ready Up or Exposure status is clearly indicated by the color of the illuminated indicator on the front of the collimator. The optional illuminated hand switch also indicates the status. This unique function allows the operator to instruct the patient when to hold their breath when operating the MobileArt Evolution remotely, as frequently occurs in ward radiography.

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### Options

- **Radiation shield (folding type)**
- **Remote controller**
- **Grid case**
- **Large cassette box**

*“*Cannot be used in combination with the large cassette box.*“*
Upgrade to FPD Mobile System

Options for high-power type only

Mount a 14” × 17” FPD or compact FPD
Verify images just 3 seconds after exposure

Upgrade to a flat panel detector (FPD) to display images just three seconds after exposure. This allows any information required for the next procedure to be obtained quickly in the emergency room.

Flexible choices for you:

<table>
<thead>
<tr>
<th>Column Height</th>
<th>Generator Power</th>
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<tr>
<td>188 cm (Standard) or 178 cm (Short) + Extension</td>
<td>32 kW (+ DR Upgradeability) or 12.5 kW</td>
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</table>

External Dimensions (mm)

- Range of column rotation
- Range of collimator rotation
- 198 cm (Standard) or 178 cm (Short)
- 178 cm (Short)
- 178 cm (Short) + Extension

Upgrade to an FPD eliminates the need to switch cassettes and read imaging plates

Installing an FPD eliminates the need to switch cassettes or read imaging plates. No more burdening the patient while switching cassettes.

Portable 14” × 17” with large field of view

Field size 35 cm × 43 cm

Compact FPD for pediatrics

Field size 23 cm × 28 cm

* Indicates values for short column type

*< Indicates values for high-focal-point type

Upgrade to FPD Mobile System

Distance from floor to focal point

High-focal-point arm specification

Custom specification

Distance: 2010 mm

Extension: 1860 mm

(Standard specification)

Distance: 750 mm

Distance: 600 mm

(Standard specification)