

Mobile X-ray System  
**MobileDaRt Evolution**  
MX9 Standard Version



# Vision on the move

Embracing the challenge, moving into new possibilities.

## MobileDaRt Evolution

MX9 Standard Version 

Discover new possibilities in healthcare.

With precision and compassion, our innovative solution offers a new approach to everyday patient care.





Enhancing Clinical Value with the Latest DR System

**Easy-to-use Large Touch Monitor**

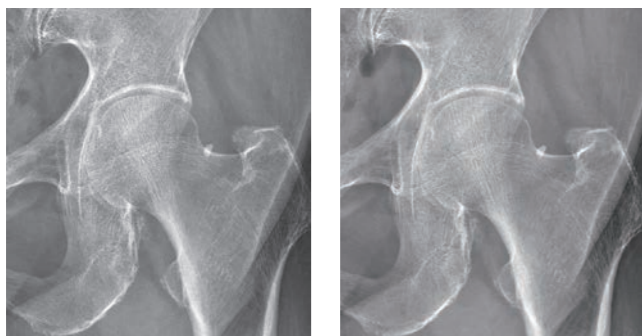
Equipped with a 19-inch touch panel monitor. Compared to standard laptop monitors, images are easier to view and touch operation is smoother.

**Scatter Correction (Software Based Scatter Correction) enables Gridless Radiography OPTION**

The system can be equipped with a function to remove scatter noise and improve image contrast, making it possible to perform exposures without the use of a grid therefore making it easier to handle FPDs.

**Smart Noise Reduction OPTION**

Smart Noise Reduction helps to reduce radiation dose while maintaining image quality. This software provides versatility for various examinations and user-friendly operation.



Conventional Noise Reduction

Smart Noise Reduction

**Left :** Conventional Noise Reduction w/ standard dose(100%) 75kVp, 20mAs

**Right :** Smart Noise Reduction w/ reduced dose(50%) 75kVp, 10mAs



**GLIDE VIEW** function

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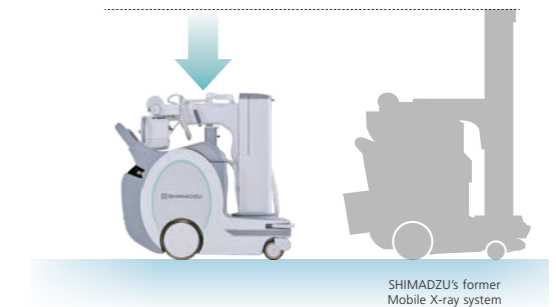
**Intuitive Maneuverability, 360° Agility**

Optimized power assist system delivers natural light touch driving whether moving forward, stopping quickly or changing directions. It's also possible to turn on the spot. The system maneuvers easily and naturally to support comfortable operation.



**Great forward Visibility offering Peace of mind**

The collapsible column has been developed to enhance forward visibility during travel, making it ideal for daily hospital rounds.





## Enhancing Your Workflow

### Adjustable handle height OPTION

The handle height can be adjusted anytime based on the operator's comfort level and preference.



### Wireless Solution for Exposure Switch OPTION

A wireless hand switch or IR remote controller allows you to perform exposures remotely for even easier usability.



Wireless hand switch



IR remote controller

### Cross Laser Marker OPTION

Equipped with a cross laser marker on the collimator. It clearly marks the center of the X-ray field, enhancing positioning accuracy.



### Convenient Battery Charging process

The conveniently accessible power plug is located just under the handle bar on the back side of unit. The FPD can be charged in the main unit via a connector in the FPD bin. (option)



## Heightened Security

### Keyless Entry OPTION

Instead of a key, each user can have their own password enabling accessibility to preferences and preset X-ray parameters. This further enhances security and workflow.



### Anti-theft FPD lock function

FPD storage bin is equipped with a detector lock function that can heighten the security level against FPD theft.



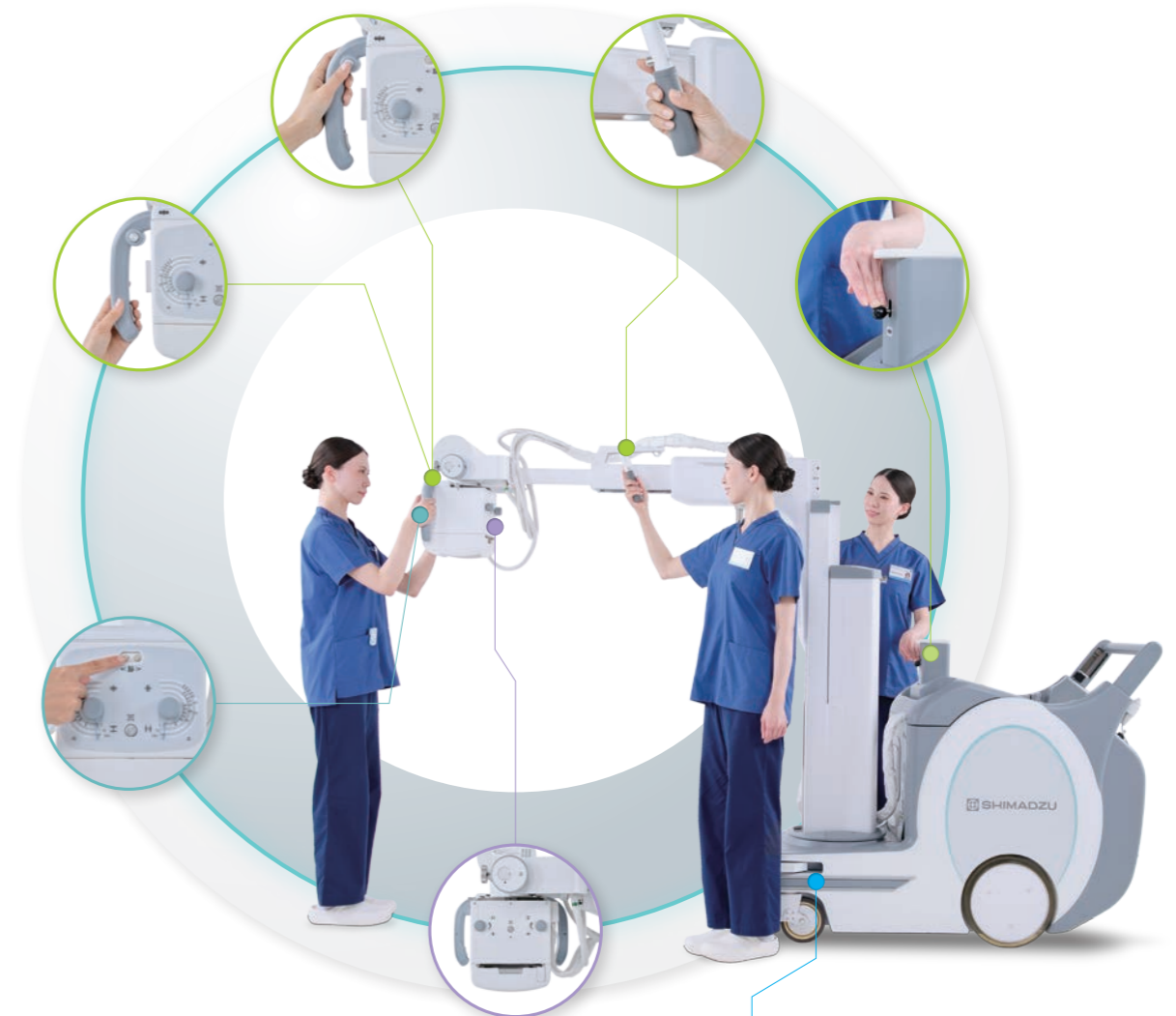
## Operate From Any Position

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### Easy Positioning from anywhere

Pressing the "All Free" button releases the electromagnetic locks for the telescopic arm and column at the same time, thus enabling simple one-step positioning. Multiple "All-Free" buttons are located around the system, so the technologist can access the system from any direction.



### Inch-Mover for Bedside Positioning

The main unit can be moved forward or backward with switches conveniently located on the collimator. The technologist can adjust positioning more precisely without moving around the patient bed.



### Field of view Collimation by dual side controls

The collimator knobs and lamp button are located on both the front and the back side, allowing the technologist to easily confirm and change the irradiation field.

### 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.

\*) Availability of the option depends on the regional radio wave regulation. Please contact your sales representative regarding the availability.

## Intensive Care Units



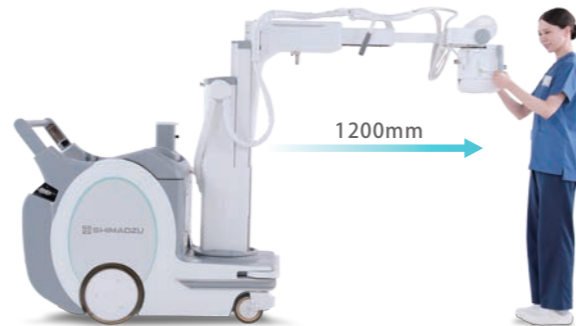
Flexible Operability in Confined Spaces

# ICU

### Wide Exposure Range

The system is especially useful for imaging in ICUs, where there are numerous devices around the patient. With the low profile X-ray tube and the 1200 mm extension telescopic arm, the MX9 easily positions for patient imaging.

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### Configure Settings Easily Even in Tight Spaces

The compact body is only 56 cm wide, making it easier to maneuver even with limited space. With the collapsible column, collision with tall medical accessories such as IV poles and other devices can be prevented.

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## Neonatal Intensive Care Units



Comfortable Examinations for Patients

# NICU

### Compact FPD for Pediatric Care

The compact FPD fits inside the cassette tray of an incubator.



### Designed to Minimize Radiation Exposure

The estimated Dose Area Product (DAP) is displayed prior to exposure, and the calculated DAP value is stored for post-exposure management. (measured DAP instrument is optional.)



### Pediatric Filter<sup>\*)</sup> Supported

In order to cut soft X-rays that do not contribute to image acquisition, the pediatric filter can be installed in the collimator. Using a filter reduces radiation exposure efficiently while image quality is maintained.



\*) The pediatric filter itself is not an optional item. Please use one belonging to your facility.



Designed for Quick Action

**ER**

**Designed for Sterile Equipment Covers**

For daily use, extra storage spaces are provided to store wipes, pens, markers, etc. Grooves have been added for holding the FPD vertically while putting a sterile cover on the unit.



**IP67 Dust and Water Resistance**

The FPDs conform to the IP67 dust and water proof standard to prevent ingress of dust and liquids.

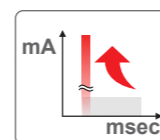
**Minimal Startup Time for Emergency Needs**

System startup takes only one minute and is immediately ready for use in emergency conditions.



**High power 32 kW output**

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.



Meeting the Needs for Surgical Environments

**OR**

**Connection for External monitor OPTION**

The ability to connect an external monitor is especially helpful for sharing images with all surgical team members in operating rooms.

**Integrated Design for Easy Clean-up**

The flat screen design makes it easy to clean and maintain hygiene.



**Smart DSI : Retained Object Confirmation Support Software OPTION**

Display images processed by Smart DSI (Detection Support with Image processing) on the main monitor.\*1)



Acquired image data



Processed image by Smart DSI



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**Smart DSI Retained Object Confirmation Support Image Processing\*2)**

Developed with AI technology, Smart DSI aids the detection of objects retained in the body by enhancing regions of the image that potentially show surgical needles, gauze with radiopaque threads, and other foreign objects.

\*1) Do not rely solely on the imaging processing capabilities of Smart DSI when determining if foreign objects are retained in the patient. Use visual image confirmation, gauze counts, and other methods in reaching a final judgment.

\*2) The AI (artificial intelligence) technology used in Smart DSI is not a self-guided iterative learning-type AI.

Label Description: Mobile X-ray System MobileDaRt Evolution

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Shimadzu Corporation Medical Systems Division has been certified by TÜV Rheinland as a manufacturer of medical systems in compliance with ISO9001:2015 Quality Management Systems and ISO13485:2016 Medical Devices Quality Management Systems.

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