

Mobile X-ray System

# MobileDaRt Evolution

MX8 Version S





# Evolutionary Modernity

## MobileDaRt Evolution

MX8 Version S

Responsive and maneuverable MOBILITY

Two\* second image verification offering IMMEDIACY

A large viewing monitor for enhanced FUNCTIONALITY

MobileDaRt Evolution is further refined into the MX8 s type featuring a collapsible column to broaden the mobile's operability.

\*) Pre-view time may exceed depends on the FPD model and acquisition mode(binning).

\*\*) The TM and ® symbols are omitted in this document.

# More than a Mobile, an Experience

## 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.



## Adjustable Irradiation Fields with 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.

## 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 <sup>\*)</sup>

OPTION

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



Wireless hand switch



IR remote controller

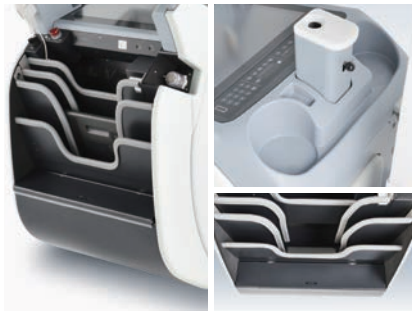
## Positioning from Any Direction

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.



## Designed for Everyday Use

The mobile's large storage bin stores FPD's as well as accessories like pens and markers. The front bins can provide spaces for wipes and other accessories.



## Convenient Battery Charging process

The conveniently accessible power plug is located just under the handle bar on the back side of unit.



## Scatter Correction (Virtual Grid) 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 FPD's.

## Select the Perfect FPD for Your Application

FPD models are available to meet a wide variety of clinical needs, such as the physical size, sensitivity, and data transmission. You can share one FPD between multiple units or you can add various size FPD's.



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



Operator-Friendly Design

# ROUNDS

Hospital Rounds



## 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.

## Intuitive Maneuverability

### Responsive and Smooth Driving

Optimized power assist system delivers natural light touch driving whether moving forward, stopping quickly or changing directions. The system maneuvers easily and naturally to support comfortable operation.

### Designed to make every round as Comfortable as possible

The low-profile and curved shape creates a natural driving experience.

## For Optimized performance

### Wireless Barcode reader \*)

OPTION

The barcode reader can effortlessly assist with patient registration for imaging in hospital rounds. With its wireless feature, the technologist can easily reach patients to scan their barcode.



### Remote desktop \*\*)

OPTION

Remote access lets you to access RIS terminal from mobile console.

## 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.



### IC card Login \*)

OPTION

A multiple user's IC card can be registered in advance. Simply passing over card reader will boot up the system.

### Anti-theft FPD lock function

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



 **GLIDE VIEW** function



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Please contact your sales representative regarding the availability.

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Flexible Operability in  
Confined Spaces

ICU  
Intensive Care Units

Comfortable Examinations  
for Patients

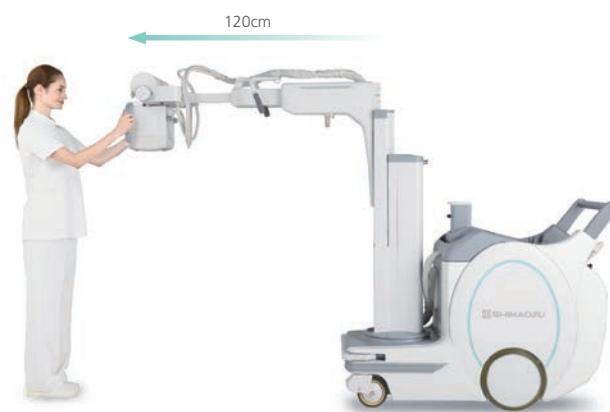
NICU  
Neonatal Intensive Care Units

### Wide Exposure Range

The system is especially useful for imaging in ICU's, where there are numerous devices around the patient. With the low profile X-ray tube and the 120 cm extension telescopic arm, the MX8 easily positions for patient imaging.

### 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.



### Large Image Storage Capacity

A large storage capacity provides peace of mind when performing repeated radiography. A 3500-images\* storage capacity in the main unit makes it easy to reference past images and quickly compare images before and after surgery.



\*) Image storage depends on the FPD models.

### 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.) Also, a high sensitivity FPD helps reduce radiation exposure for imaging of neonatal babies or infants.

### 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.

### Compact FPD for Pediatric Care

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



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





Designed for Quick Action

ER  
Emergency Room



Meeting the Needs for  
Surgical Environments

OR  
Operation Room

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.



Excellent waterproofing

The FPDs conform to the IP56\* water proof standard to prevent ingress of liquids.

Minimal Startup Time for Emergency Needs

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



Quick Image Verification

Displaying images just 2 seconds\*\* after exposure is especially useful in emergency rooms (ER) where time to treat is critical for saving lives or reducing paralysis. The ER staff can see images almost immediately on the system reference display for preliminary image verification, allowing treatment to continue without delay.



Integrated Design for Easy Clean-up

The 19-inch large touch panel display is excellent for quickly viewing images, and the flat screen design makes it easy to clean-up.



Capture Large Areas with  
One-Shot Radiography\*

OPTION

Large area, such as the entire spinal column or the whole body of children, can be completed with only one exposure, eliminating the need to stitch together multiple images. That is especially useful for verifying alignment of spine surgical procedures or checking for objects left in the patient after surgery. (Only available for systems configured with a DR-ID 1836SE.)

Retained Surgical Instruments  
Can Be Verified Quickly

On-site image review is helpful to reconfirm any retained surgical instruments.

Connection for Secondary Monitor

OPTION

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

\*) Waterproof property depends on the FPD models.

\*\*) Pre-view time is approx.2.5 seconds when combined with DR-ID 1836 SE.

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

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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