

Mobile X-ray System
MobileDaRt Evolution
MX8 Version 



Premium Glass-Free Detectors



Evolutionary Modernity

MobileDaRt Evolution

MX8 Version V

Responsive and maneuverable MOBILITY
Instant image verification offering IMMEDIACY
A large viewing monitor for enhanced FUNCTIONALITY

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

Premium Glass-Free Detectors



Toughness and Water resistance



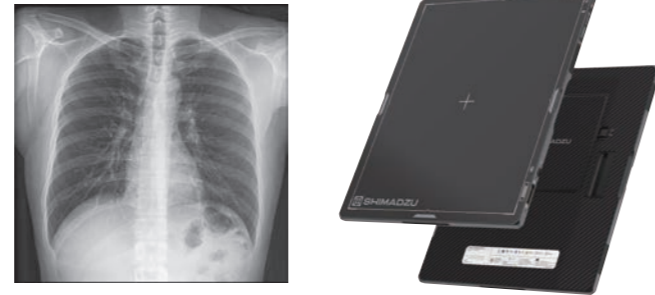
Wide variation

More than a Mobile, an Experience

Premium Glass-Free Detector

The 99-micron small pixel pitch allows to detect finely detailed X-ray images. The lightweight Glass-Free Detector helps reduce the physical burden on radiology technologists while increasing robustness to stand accidental drops.

- 99 μm High resolution
- IP67 Water & Dust resistant
- 400 kg uniform load / 200 kg local load
- Lightweight 2.4 kg Detector (1 battery / 14 x 17 inch detector)
- Convenient charging
 - > USB type C
 - > Tether Cable(option), Cradle(option), Battery Charger (option)



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.



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

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.



Adjustable Irradiation Fields with Dual Side Controls

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

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.



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

Adjustable handle height

OPTION

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



Operator-Friendly Design



ROUNDS

Hospital Rounds

Intuitive Maneuverability

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.

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.

Designed for Everyday Use

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



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.



GLIDE VIEW function



FPD Rechargeable in the Main Unit

OPTION

The FPD can be charged in the main unit. A connector for charging the FPD battery is mounted inside the FPD bin at the rear of the main unit.



Convenient Battery Charging process

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



Anti-theft FPD lock function

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





Flexible Operability in Confined Spaces

ICU
Intensive Care Units

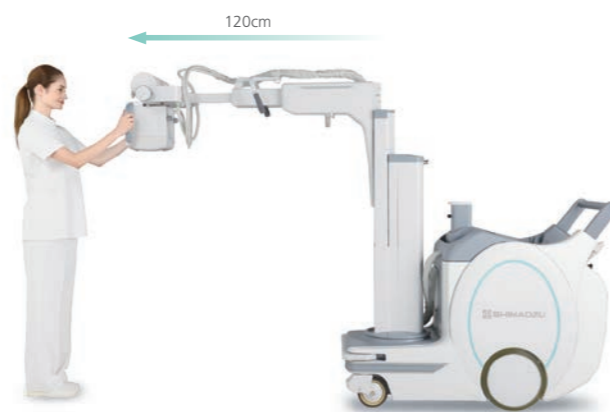


Comfortable Examinations for Patients

NICU
Neonatal Intensive Care Units

Wide Exposure Range

The system is especially useful for imaging in ICUs, 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 2500-images storage capacity in the main unit makes it easy to reference past images and quickly compare images before and after surgery.



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 *) 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

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.



Quick Image Verification

Displaying images less than 5 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.



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.

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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- 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.