

## Mobile X-ray System

## MobileDaRt Evolution

MX8 Version K





# Evolutionary Modernity

## MobileDaRt Evolution

MX8 Version K

Responsive and maneuverable MOBILITY

Instant image verification offering IMMEDIACY

A large viewing monitor for enhanced FUNCTIONALITY

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

## 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.



## Wireless Solution for Exposure Switch \*) OPTION

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



Wireless hand switch



IR remote controlle

## 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

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



## 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.







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 (Intelligent-Grid™) enables Gridless Radiography OPTIC

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 and data transmission. You can share one FPD between multiple units or you can add various size FPD's.



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## Dynamic Digital Radiography New Clinical Value

## Serial Radiography Function \* OPTION

MobileDaRt Evolution MX8 Version with wireless FPD supporting serial radiography enable serial radiography in mobile X-ray systems, and reference serial images can be reviewed on a large touch panel monitor mounted on the main unit. It provides the sequential images as a cine loop to check the lung movements of patients who have difficulty moving. This dynamic information aids in a more precise diagnosis.

## In addition to conventional static radiography, serial radiography is possible



Easy verification of movement of the target area



Frame rate: MAX. 15 fps



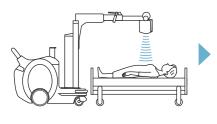
Exposure duration: MAX. 20 sec.





Image courtesy of Konica Minolta, Inc.

## **Examination Flow**



Exposure MobileDaRt Evolution and FPD for serial imaging



Image Verification

Images can be reviewed on a large monitor



Dynamic Digital Radiography Analysis

Images are analyzed at the dynamic digital radiography analysis workstation.\*\*

## FPD Rechargeable in the Main Unit

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.







## 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.

## 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 \*)

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.



## GLIDE VIEW function

## 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.

## **Heightened Security**

## **Keyless Entry**

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.

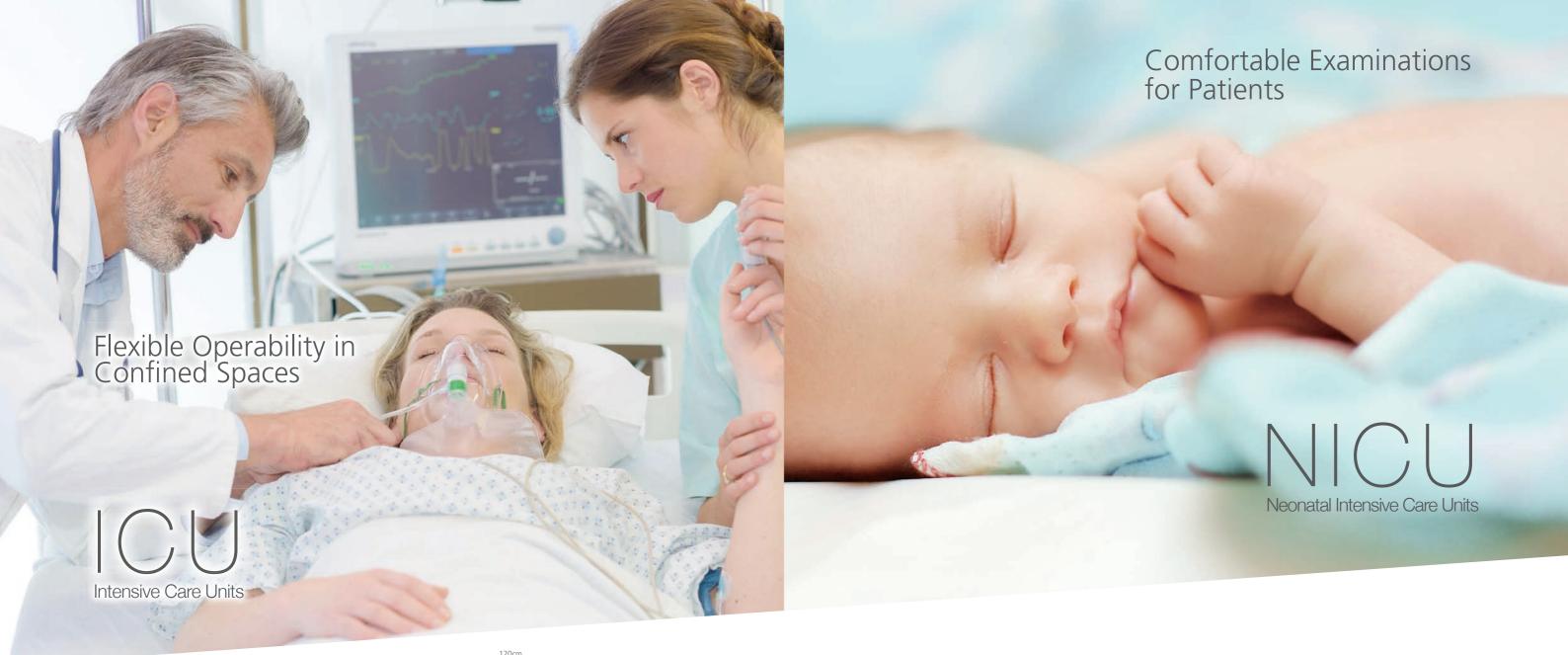


<sup>\*)</sup> Availability of the option depends on the regional radio wave regulation Please contact your sales representative regarding the availability



<sup>\*)</sup> Available by combining FPDs that support serial imaging.

<sup>\*\*)</sup> The serial radiography function does not include dynamic digital radiography analysis. A dedicated workstation is required for dynamic digital radiography analysis. For more information and availability, please contact your sales representative for details



#### 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 5500-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.





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

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## 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.



### **Dust and Water Resistance**

\*) AeroDR3 1417SL/1417HL/1717HL specifications.

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

## Minimal Startup Time for Emergency Needs

System startup takes only 2 minutes 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.



#### \*\*) This value is for FPD pixel size 200µm.

## 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.

#### Tube Gauze for Safer Procedures

For use in surgical operations, the new image processing function helps to confirm the absence of residual instruments like sponges, gauze or needles. This is also useful to reconfirm locations for the catheter tip in PICC insertion procedures more clearly.

## 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.

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