Mobile X-Ray System

MobileDaRt Evolution

MX7 Version
Upholding Our Tradition,
Pushing the Limits of Digitization,
MX7 Brings Further Evolution

Offering the immediacy of being able to view images only two seconds after exposure, the newest, highly advanced Shimadzu digital mobile X-ray system provides powerful support for healthcare applications. In addition to the outstanding drivability and maneuverability, the main cart unit also includes a large LCD monitor, more storage space, and other features to deliver a new digital mobile X-ray system that is even more indispensable.

**Smart seCURE**

**Superior Power Management**

By more closely integrating the dedicated mobile digital unit with the main cart unit, the system now offers new functionality that recognizes the status of travel, positioning, and other operations, and minimizes unnecessary power consumption. It also features state-of-the-art functionality for managing battery charging in order to maximize the capacity of the main cart unit battery, which is extremely helpful for supporting daily mobile X-ray operations.
Higher Level of Operability

"Inch-Mover" for Bedside Positioning

The main unit can be moved forward or backward by simply operating from the collimator. The technologist can adjust positioning more precisely without moving around the patient bed.

Imaging in Bright Rooms, with Energy Saving LED

Newly accommodated LED light indicates the irradiation field more clearly even in a bright room or during daytime. The long-life LED reduces energy consumption and replacement frequency.

- 40% increase in brightness
- 80% reduction in power consumption*  

Access Images Wirelessly

Wireless capability means the system can be used in a variety of scenarios such as scheduling examinations, interpretation of images and diagnosis of conditions by physicians during routine patient rounds, in ICUs, NICUs, emergency rooms, operating rooms, and so on.

Positioning, Exposure from any Direction

Pressing the "All Free" button releases the electromagnetic locks for the 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. In addition, an optional extra exposure hand switch can be added to the front of the main unit, which helps reduce the burden on the operator.

Select the Perfect FPD for Your Application

A range of FPD models are available to meet a 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 another size in the future when needed.

The combination of liquid-resistant and the lightest weight FPD makes your daily handling much easier.*

* Based on internal measurements (compared to halogen lamp)
Natural, Light-Touch Driving
A light pressure applied to the handle moves the unit in a natural manner like an extension of one’s hand. The system maneuvers easily even through tight spaces in the patient room.

Silent, Calm Clinical Environment
The quiet motor minimizes noise during travel, making it ideal for hospital rounds even at night.

Great Forward Visibility
The compact X-ray tube design does not obstruct visibility during travel to ensure safety.

Designed for Daily Use
For your daily use, extra storage spaces are provided to store wipes, pens, markers, etc. A groove has been added for holding the FPD vertically while putting a sterile cover on the unit.

Keyless Entry
Instead of a key, each user can have their own password which enables their preferences and preset X-ray parameters to be accessed. This further enhances security and workflow.

Smart seCURE
During driving mode, the LCD display turns off automatically. This is useful for saving energy, and ensures that patient information is secure in public spaces like corridors. On-board FPD charging in the storage bin is available. Even when the FPD is running out of power, instant charging in the storage bin helps the technologists complete their ward rounds without returning back to recharge.
Maximum Performance in Confined Spaces

Large Image Storage Capacity Provides Peace of Mind
A large storage capacity provides peace of mind when performing repeated radiography. A 3000-image storage capacity in the main unit makes it easy to reference past images and quickly compare images before and after surgery.

Wide Exposure Range
The system is especially useful for imaging in intensive care units, where there is numerous equipment in a limited space.

Intensive Care Units (ICU)

Comfortable Examinations for All Patients

High Sensitivity Compact FPD for Pediatric Care
The compact FPD fits inside the cassette tray of an incubator, which enables imaging of neonatal babies or infants. A high sensitivity FPD helps reduce radiation exposure, and the ability to capture images quickly provides powerful support for pediatric care.

Neonatal Intensive Care Units (NICU)

Tools to Support Radiation Management
The system is in conformity with today’s needs for radiation management. Estimated Dose Area Product (DAP) is displayed prior to exposure, and the actual DAP value is stored for post-exposure management. A DAP chamber can be mounted as well when needed.
Designed for Quick Action

Meeting the Needs for Surgical Environments

**ER**
Emergency Room

**OR**
Operation Room

**Minimal Startup Time for Emergency Needs**
System startup takes only one minute and is immediately ready for use for emergency needs.

**Large Field-of-View to Cover Entire Region**
In emergency situations, it is critical to make decisions and to take action quickly. The large field FPD secures wide field-of-view and reduces number of exposures to cover entire region of interest. Its lighter weight and thinner size makes it easier to handle.

**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 at the on-board reference display for preliminary image verification, allowing treatment to continue without delay.

**Flexible Image Rotation**
Images can be rotated freely using simple operations. The orientation of diagonal bones can be straightened for easier image review.

**Integrated Design for Easy Clean-Up**
The built-in 17 inch large display is excellent for quickly viewing images, and fully integrated design is easy to clean-up after use.

**Retained Surgical Instruments Can Be Verified Quickly**
On-site image review is helpful to reconfirm any retained surgical instruments.

**External Large Display for Teams**
The ability to connect an external display enables images to be shared by all surgical team members in the operating room.
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