

Press Release

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MobileDaRt Evolution MX7 series New digital mobile X-ray systems for higher operator satisfaction

**MX7 series combines clinical feedback with the most advanced technologies /
Offering more functionality and convenience than previous globally-popular models**

Shimadzu, a worldwide leading manufacturer of diagnostic imaging equipment, has released the MX7, its newest version of the MobileDaRt Evolution series. This series offers state-of-the-art mobile digital radiographic (DR) system extensive functionality including additional software functions, a built-in large image display monitor and an extremely operator-friendly design, providing an increased level of support for medical personnel involved in mobile imaging work.

Digital mobile X-ray systems equipped with a Flat Panel Detector (FPD) are used to examine patients during hospital rounds and for medical applications requiring a high level of urgency, such as emergency rooms and neonatal intensive care units (NICUs). To date, Shimadzu has sold over 3000 digital mobile X-ray systems throughout the world, where they have earned a strong reputation. In 2015, the KLAS Research third-party healthcare research organization in the United States granted the Best-in-KLAS award for the X-Ray Segment category, including digital mobile X-ray systems, to Shimadzu Medical Systems.

The MX7 series offers a wide range of FPD types to match individual clinical requirements, such as physical size, sensitivity and data transmission. In particular, the 2.5 kg 14x17-inch FPD (SL-DR 21417S) which offers especially high general applicability, is lighter than any other FPD of comparable size in the industry. The combination of liquid-resistant and ultra-light FPD makes daily handling much easier.

More convenient design better satisfies operator needs

The MX7 series' image display units feature a new large 17-inch LCD monitor. It not only increases resolution but also provides better visibility and touch panel operability. Additionally, other new features improve the convenience of routine use such as storage space for smaller items as well as grooves in the console top sidewalls, convenient for installing a cover over the FPD unit while keeping it stabilized. Of course, the new MX7 still features the popular smooth and quiet drive system, the "all-free" button to freely position the unit with a single button and the ability to display images in about two seconds after exposure. These help operators to work quickly in typical healthcare environments.

"Smart seCURE" integrated power management function

The MX7 features "Smart seCURE", an integrated power management function that allows users to select the best system for their clinical needs from a wide variety of available choices. Based on superior communication between the main unit and the DR system, the Smart seCURE integrated power management function utilizes the battery more effectively by minimizing unnecessary consumption of power. In addition to a startup time of about one minute for the DR system, the system also includes other new features designed to meet the needs of healthcare providers, such as a larger image display monitor and convenient storage space.

"Scatter Correction" software

The Scatter Correction software enables more efficient work due to the elimination of grid misalignments. Whereas a grid physically reduces scatter and increases image contrast, the software mimics this process virtually. It generates a scatter model which is subsequently subtracted from the image. The result is an image with reduced scatter and increased contrast.

Furthermore, a state-of-the-art control software incorporates new functionalities and optimizes the pre- and post-processing workflow. The anatomical programs (APRs) can be selected easily via a body mask to perform the recommended radiographic examinations.

Web summary

Shimadzu has released the MX7, its newest version of the MobileDaRt Evolution series. These digital mobile X-ray systems equipped with Flat Panel Detector (FPD) are used to examine patients during hospital rounds and for medical applications requiring a high level of urgency, such as emergency rooms and neonatal intensive care units (NICUs). The Scatter Correction software enables more efficient work due to the elimination of grid misalignments. The "Smart seCURE" integrated power management function allows users to select the best system for their clinical needs from a wide variety of available choices. The series offers additional options to extend the applications.



Figure 1: The new MX7 digital mobile X-ray systems combine clinical feedback with the most advanced technologies to meet the highest operator requirements.

Web link: www.shimadzu-medical.eu/mobile-x-ray-systems



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