

Mobile DaRt Evolution™ DR Motorized Mobile X-Ray System
Includes the following features:

- 32 kW maximum x-ray generator rating
- 40 - 133 kV tube voltage in 1 kV steps
- 0.3 - 320 mAs
- 400 mA maximum tube current (under 20 msec)
- 72 APR settings user-selectable
- 300 kHU tube capacity
- 0.7/1.3 mm Dual focal spot
- Ultra Quiet Motorized drive system with speeds up to 5km/hour forward-backward, zero turn radius and up to a maximum driving slope of 7 degrees.
- Power Assist Optimized (PAO) controls and sets the optimum traveling speed by the amount of pressure applied to the steering bar
- Unique "Inch Mover" allows the technologist total bedside control with unit movement controlled by two vehicular positioning buttons incorporated on the collimator
- Two clear displays of x-ray timing sequence (x-ray "ready-up" indicator) for accuracy in exposure timing
- Telescopic arm minimizes overall unit size to allow access to even the smallest patient areas
- Second "All Free" lock release switch at the middle point of the tube positioning arm; adding a second "All Free" lock release switch and grab handle to both sides of the arm
- Collimator lamp re-lights upon exposure "ready-up" signal facilitating check of final position of radiation light field
- Enhanced collimator design; added shutter leaves near the tube aperture to reduce off-focus radiation
- Telescopic arm allows +/- 270° arm rotation for improved flexibility for patient examinations
- Telescopic arm has a maximum horizontal travel of 1200mm (47") to allow positioning flexibility without having to reposition the patient
- Front mount cable hook prevents cable tangling due to column rotation
- Strengthened unit side covers manufactured by the RIM process reducing overall sound and vibration dampening
- Battery recharge requires a 1kVa, 100/110/120/200/220/230/240V power supply
- Keyed brake release button to release system drive locks to allow unit movement in the event of full battery discharge
- Enhanced front safety bumper mechanism
- Total unit weight is 420 kg (925 pounds)
- LED light in hand exposure switch
- Keyless power ON for users access to drive and make exposures without need of a key.
- Wireless 802.11 a, b, g or n communications ready. (Can be de-enabled)

- Can make exposure when connected to the hospital 115 V ac power line if batteries are too low.
- Batteries can be charge while the PC is ON for quick access to worklist.

Canon CXDI-70C Wireless Detector

The Canon CXDI-70C Wireless portable, lightweight DR system provides super high resolution, high quality, filmless image capture for a broad range of radiographic applications, including trauma, ICU and bedside exams. The CXDI-70C Wireless is an ISO 4090 compliant cassette size detector that can fit into existing bucky trays, or in new equipment trays with ease.

Offering high-quality diagnostic images efficiently with minimum X-ray exposure to patients the CXDI-70C Wireless is ideal for all radiographic use, especially pediatric. This portable DR system consists of a Canon Amorphous Silicon (a-Si) Flat Panel Detector and a Cesium Iodide (CsI) Scintillator, allowing for extremely effective X-ray absorption and high signal-to-noise performance. The large 14-inch x 17-inch imaging area and portable design – just over a half-inch thick (0.6 inches) and weighting only 7.5 lbs. – allow the CXDI-70C Wireless to be especially useful with patients who have limited mobility and for capturing images at angles that are difficult to set with fixed devices.

Includes:

- 1 – CXDI-70C Imaging Unit
- 1 – Operation Manual
- 2 – Battery Packs
- 1 - Grid Cap 70C ; 130 cm, 6:1, 52lpc, AL spacer
- 1 - DR Safety Handle Holder – NO GRID**

Features and Specifications:

Detector

- Scintillator: Cesium Iodide
- Pixel Pitch: 125 microns
- Pixels: 2,800 x 3,408 (9.5 million)
- Imaging Area: 14 inches x 17 inches
(35 cm x 43 cm)
- Battery Performance: 140 images (@ 100 sec cycle,
1 sec sleep)
- Wireless Standard: IEEE 802.11N

Image Acquisition

- A/D: 14 bit
- Grayscale: 12 bit (4,096 gradations)
- Preview Image: 3-5 seconds

Electrical and Environmental

- Voltage: 100V, 120V, 230/240V
(50/60Hz)
- Power Consumption: 170VA maximum

- (Detector unit only)
- Operating Environment: 41-95°F (5-35°C), 30-50% RH (non-condensing)

Physical Characteristics

- Dimensions (WxLxH): 15 inches x 18 inches x 0.6 inch (384 x 460 x 15 mm)
- Weight: 7.5 lbs. (3.4 kg)

DICOM Modality Worklist Software

- Version v3.0 with offline-online patient download
- Mobile mode allows storage of worklist to the Hard drive for access in areas without wireless access.
- Multi-Accession function to perform multiply studies on single patient.
- Modality Performed Procedure Step (MPPS);
- Provides Status to the MPPS server
- N-Create and N-Set messages stored on Mobile until network communication is available.

Fully integrated on board PC with color Display

- Mobile processing technology to balance performance to low input power.
- Fast image transfer speed for both LAN and wireless operation.
- USB 2.0
- Large 15 inch touch screen display for easy QA and preliminary review of images on unit.
- Chemical resistant screen for cleaning with germicide wipes.

MobileDaRt Wireless Connection (Can be de-enabled)

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Reference Skin Dose Indicator (UL)

- Ultrasonic sensor mounted on the bottom of collimator to sense distance.
- LED distance readout mounted on x-ray tube control handle.
- This reference can aid user to have consistent SID
- System calculates estimate skin dose based on distance, kV and mAs setting.
- Calculated Dose readout mounted on console adjacent to technique parameters.
- Dose is displayed on indicator and is not added to DICOM header.

Focal spot to patient skin distance Indicator (UL)

Summary

MobileDaRt Evolution 70C System Total List Pricing

Trade-in

Service Training - MobileArt MobileDaRT Evolution Service Training Class – Tuition for one (1) biomedical engineer for 5 days service training class at Shimadzu Medical Systems

(Does not include travel and living expenses)

- Service Training Course expires one (1) year from equipment installation date (or purchase date if sold separately)
- Training program must be scheduled and completed within 12 months after the date of product delivery
- If Service Training is not completed within the applicable time period, Shimadzu's obligation to provide the training will expire without refund.

Service Training – MA/MD T&E Prepay

Provides estimated allowance of _____ for Travel and Living expense for one student while attending Shimadzu MA/MD Training class held in Torrance, CA. The Customer accepts all responsibility for the scheduling and compliance with Facility rules for Transportation, Lodging, Meals as well as general safety and personal requirements of the student. The Customer will also be responsible for the accounting, tracking and use of the monies provided in this allowance as part of this proposal.

System Total with Service Training, Travel Prepay and Trade-In

Remote Exposure Control

- Infrared remote control device switching ON/OFF the collimator lamp and Exposure ON can be activated from max. 5 meters away from the unit.
- To help the distance to the unit, the status indicator clearly shows different colors for each Stand-by/ Prep/ Exposure.

Folding Radiation Shield

Protection shield may reduce the radiation dose to the operator.

- Radiation protection is equivalent to 0.3mm Pb.
- Easily folds for all clinical situation

Option Raised Drive Handle (950, 970 or 1000 Set at install)

- Standard drive handle is 910 mm (35.8 inches) high which is 1 ½ inch higher than previous Mobile DaRt model.
- Additional height is available for the taller operators for additional comfort.
- Height is select during installation with three choices:
 - 950 mm (37.4 inches)
 - 970 mm (38.2 inches)
 - 1,000 mm (39.4 inches)

Additional Front exposure hand switch

- To be mounted on column side of chassis
- Improve workflow by giving flexibility to operator

VacuDAP Dose Area Meter

- The VacuDAP measuring system measures the dose area product (DAP) in a radiological examination.
- The Transparent ionization measuring chamber can be placed at the radiation outlet end of the collimator
- Dose is displayed on indicator and is added to DICOM header.

Mounting kit

*** Note: Cannot be used with Reference Skin Dose Indicator*

Grid 4:1 110 cm focus, for CXDI-60 series

Add 11"x14" Smaller Size Canon DR Detector

