

673-B60010  
VA TAMPA, FL

### EQUIPMENT DETAILS

## RadPRO Mobile 40kW FLEX Digital X-Ray System and Canon CXDI-701C Wireless Digital Detector

Qty	Description
1	<p><b>RadPRO Mobile 40kW FLEX Digital X-Ray System and Canon CXDI-701C Wireless Digital Detector</b></p> <p><b>RadPRO Mobile 40kW Flex DR Digital Mobile ready for Canon CXDI-701C Wireless Detector</b></p> <ul style="list-style-type: none"><li>- Battery Assisted High Frequency generator</li><li>- Microprocessor Controlled</li><li>- Auto diagnostic System for easy maintenance.</li><li>- Tube overload protection continuously Monitoring of the remaining X-Ray Tube Heat Units</li><li>- Anatomical Programmer APR with more than 500 program capability.</li><li>- Automatic selection of the radiographic parameters programmed (kVp, mA, time or mAs and focal spot, according with patient size and anatomical area selected).</li><li>- Power 40 kW. According to IEC</li><li>- KVp Range from 40 KVp to 150 KVp in 1 KVp Steps.</li><li>- mA range from 10 to 500 mA in Renard scale: 10, 12.5, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250, 320, 400, 500 mA</li><li>- mAs Range 0.1 to 500 mAs.</li><li>- Time range from 1 ms. to 8 sec. 40 Time stations. Renard Scale</li><li>- User Friendly Touch Control Panel with Digital Displays for KVp, mAs, mA and time.</li><li>- Two and three points console.</li><li>- Two point console KVp and mAs selection only.</li><li>- Three point console KVp, mA and time selection.</li><li>- Two step Hand switch for preparation and exposure.</li><li>- Audible and light indication for x-ray exposure.</li><li>- Line requirement: 110/230 VAC single phase <math>\pm 10\%</math></li><li>- Lead Crystal Batteries</li><li>- NEW LED Collimator with User-Controlled On/Off</li><li>- Green/Yellow/Red Battery Monitor System</li><li>- 17" Touch-Screen Console</li></ul>

- On/Off Switch Modification Kit for RadPRO Digital Modules
- Parallel Charging allows for RadPRO Mobile to remain on while charging
- Expose while plugged in (technologist must be logged in) for redundancy and disaster recovery
- 300KHU 0.7 - 1.3 Focal Spot X-Ray Tube

#### TUBE STAND COLUMN MOBILE UNIT:

- Telescopic Tube Column
- Motorized Unit, 4 km/h Speed, Pressure Sensitive Moving System ( Patent ).
- Two Independent Motors one for each wheel. Forward and Backward movement.
- Excellent mobility with large rear wheels for easy transportation even over small obstacles.
- Independent Battery Charge Indicators for Driving and Generator Batteries.
- "Precise-Positioning Buttons" allows base to be driven forward, backward, and rotate from tube-head.
- Anti Collision System, Frontal and Lateral.
- Easy access to any elevator, hall-way, doors and patient bed side.
- Quick and sturdy breaking system control when operator releases the handle.
- Manual rotary collimator with x-ray covers area light indication.
- Possibility of Lighting the Collimator from booth Collimator and Front Panel.
- Ergonomic touch control panel with sensitive push button.
- Emergency Stop push button (with Emergency Stop Cage).
- Tube stand column rotation +/- 315°
- Tube rotation "X" axis +/- 155°
- Tube rotation "Z" axis 90°
- Vertical tube travel 57" (145 cm)
- Horizontal tube travel 23.6" (60 cm)
- Counterbalanced tube arm.
- Electromagnetic breaks with release from the Collimator and Front Handle
- Maximum Focal Distance 74.4" (1890mm) to the floor
- Minimum Focal Distance 21.6" (550mm) to the floor.
- Computer: High performance control unit with wireless data communications
- PC Specifications:
  - Intel i7 Quad Core Processor
  - 8 GB High-Speed RAM
  - 250 GB SSD (Solid State Drive) Hard Drive
  - Microsoft Windows 7 64-Bit Operating System
  - Custom designed advanced WiFi system - 802.11a/b/g/n Dual band (2.4-5.0 GHz)
- Wireless transmission of images from PC to network storage (PACS) or print location
- Ruggedize Chassis designed to withstand severe shock and continual vibration, making them ideal for use in a portable environment.
- Custom Cables: Fully integrated retractable ethernet will connect you to your PACS network to transfer your DICOM images.
- Stylus
- Wireless Access Point
  - Transmits image from CXDI-710C Wireless to on-board Control PC
  - Non-broadcasting, one-to-one paired with Canon CXDI-701C Wireless detectors only
  - WPA/PSK2 data encryption
  - Dual-Band 802.11n transmission
- Infrared Check-in Unit
  - Allows CXDI-701C Wireless to be 'checked-in' to Control PC
  - Up to 10 detectors can be associated with one Control PC
- Gigabit Ethernet Switch

#### Canon X-Ray Interface Unit

##### Canon Battery Charging Unit

- Charges two batteries at once
- Quick charging, full recharge in <3 Hours from zero
- Indicator lights for when battery is charging and fully charged

#### Control Software NE Features:

##### System Startup & Quality Assurance

- Standard Mode: No log-in required
- Secure Mode: Operator log-in/password required (user authentication); auto time-out with log-in to last screen viewed
- Warm-up time: None
- Battery/Wi-Fi Monitor: Software to allow wi-fi strength monitor and battery monitor for CXDI-701C Wireless configurations.
- Calibration Routine: Included; required once per year; configurable on-screen reminder message
- Display QA: SMPTE pattern Included

##### Image Acquisition

- Programming: Unlimited anatomically programmed acquisition settings; user customizable to include annotation, orientation, patient demographics display location, and pre-selected basic and enhancement processing
- Reject/Retake: Reject, Retake, Un-Reject; Reject reason labeling with free or pre-set annotation; Reject log (.csv monthly file accessible to system administrator for rolling 12 months)

- Grid Suppression: Software-based grid suppression
- Protocol Pre-Pack: Allows for multiple APR views to be associated into one APR for easy grouping of views within a study.
- Auto-Stitch (v1.2): Multiple images can be stitched together within the software.

#### Image Processing

- Basic Processing: Histogram analysis by automatic fixed region ROI or user adjustable ROI; grayscale conversion; adjustable brightness and contrast; 6 pre-set contrast enhancement curves; collimation edge detection and (black) masking with adjustable standoff; trim positioning and adjustment
- MTF Improvement: Preset and user-selectable/adjustable anatomical region-based filters, intensity levels
- Standard Processing: Preset and user-selectable/adjustable DEP (dynamic range adjustment), edge enhancement, noise reduction
- Preset and adjustable multi-frequency dynamic range adjustment; global edge enhancement
- Preset and user-selectable/adjustable dynamic range adjustment; noise reduction, local edge enhancement
- Security advancements allow for only select users to access full image processing protocols.

#### Data Output and Network Connection

- DICOM Print Format: Multi-format, user selectable pre-exposure and post-exposure formatting; selectable printing method (fixed ratio, life size, reduction, fit to film); queue viewable with priority and cancel capabilities; up to 2 DICOM printers may be specified at any one time, up to 4 DICOM printers may be configured
- Study transmission: Selectable modes - after each image, after study end, post-study retrieval with resend individual or all image capabilities; queue viewable with priority and cancel capabilities; up to 2 storage devices may be specified at any one time, up to 4 storage devices may be configured
- CD Archive: Available as network selectable storage device with DICOMDIR (hardware not included)
- Network: Ethernet 10/100/1000 Base T, RJ45 standard
- Data Output: DX; DICOM 3.0 compliant, Print Management Service Class (SCU), Storage Service Class (SCU) and others
- IHE Profiles: Basic Security Profile option - User Authentication, Audit Log, Time Synchronization, Node Authentication

DICOM Modality Worklist for Canon CXDI Digital Radiography systems is a communications module for acquiring patient information and exam requirements from the HIS / RIS. The following features are available in this module:

#### Study Information Acquisition

- Study is configurable to include a wide variety of patient information such as name, sex, birth date, age, patient ID, accession number(s), referring physician, etc.
- Find Mode is available and conforms to Modality Worklist SOP Class (MWL).
- Patient information can be entered manually if the patient does not appear on the worklist.
- When used with a portable imaging unit, the worklist can be downloaded and stored in the control computer eliminating the need for network access at the patient's bedside. A barcode reader (not included) can be used to find and select the patient from the worklist.

#### Study Status Notification

- Supports Modality Performed Procedure Step SOP Class (PPS) with in progress, completed, or discontinued messages.
- PPS is available for both suite and portable imaging
- Multi-accession imaging

#### Imaging Modes

- Manual imaging mode allows the user to individually select each view to be acquired
- Program imaging mode uses the study information sent by the HIS / RIS to pre-configure the exam(s) to be performed
  - Images can be acquired in any order
  - Additional views can added at any point in the exam
  - The study can be ended without completing all views
  - 100 views can be acquired for a single patient
  - Exams and views can be customized to meet the needs of the facility
  - \* Requires Program Imaging Mode Set Up and Implementation Fee

Optional DICOM tags can be defined, displayed, printed, and transmitted to PACS.

Pregnancy Status can be received from HIS / RIS and an alert displayed to inform the user of the pregnancy status.

Storage Commit function is available.

\*Any license fee for third party software applications will be the responsibility of the customer.

#### Canon CXDI-701C Wireless Digital Detector

The Canon CXDI-701C 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-701C 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 minimal X-ray exposure to patients the CXDI-701C Wireless is ideal for all radiographic use, especially pediatric.

In X-Ray Auto Detection mode, the CXDI-701C Wireless DR System can detect X-Rays at exposure and shift to imaging acquisition mode automatically, without the use of a typical generator interface. Built for convenience and time savings, this system also incorporates more customer-focused features than its predecessor. These include enhanced liquid intrusion protection, battery charging in detector with the wired\* option, and impact detection.

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 weighing only 7.5 lbs - allow the CXDI-701C 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-701C Wireless imaging unit
- 1 - Operation manual
- 2 - Battery Packs

**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 (2.4/5.0 GHz)

**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: 7.4 lbs. (3.3 kg)

**70/701C Wireless Snap-on 14 x 17, 8:1, 132lpi, 40-72 Lightweight  
Protect-A-Grid with Handle**

**Includes Standard Installation**

Includes standard installation, M-F 8am-5pm.

**Warranty - One (1) Year Parts and Labor on RadPro Radiographic System.  
One (1) Year Pro-rated Warranty on Glassware and batteries, where applicable.**

- Does not include any damages from misuse, abuse, tampering or acts of God.

**SubTotal**

**CXDI-70C Mobile DR Panel Holder**

Featuring a handle and a positive lock, this item offers additional drop protection and allows the radiographer to easily carry the 70C from room to room.

**Product Advantages** Lightweight plastic

Ergonomic handle

Double positive lock

Drop protection

Cable management

Smooth non-porous surface

Curved corners

Specifications: - H 18.5", W 18.5", D 1"

Single Battery Pack

**Dose Area Meter VacuDAP 2004 for RadPRO DR Mobiles - VI Install at time of  
Mobile3 Purchase**

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#### Applications Training - Three (3) Days/Twenty-four (24) Hours Technologist Training

- Please note that as part of contract, Two (2) days applications training are included at no charge. Additional days of applications training are at \$ [REDACTED] per day. A total of Three (3) days applications training under the agreement is \$ [REDACTED]

- Continuing Education Credits
- Standard User - Up to 2 credits - Category A
- Super User - Up to 3 Credits - Category A
- Applications must be scheduled within 12 months of installation.

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#### Canon BIOMED Engineer Training (facility staff) for Canon CXDI Software

- 5 day training class
- Price is per person for training and materials only, all other expenses are at customer's expense (room, board, transportation not included)

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#### RadPro BIOMED Engineer Training (facility staff)

- 5 day training class
- Price is per person for training and materials only, all other expenses are at customer's expense (room, board, transportation not included)

### SERVICE CONTRACT - POINT OF SALE

The following service contracts are not included in the total price above. If you wish to purchase these service contracts, indicate "Accept" next to the item, followed by your initials. The amount for each contract below will be added to the total above if accepted. The prices offered are for point-of-sale purchase only, and must be prepaid at purchase.

Qty

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#### Description

##### One (1) Year Gold Coverage for RadPRO Mobile 40kW DR Mobile Single Detector Radiographic System

- Unlimited Phone Technical Support and Applications Support (Hours 8 am - 8 pm EST)
- On Site Technical Support (Two Days)
- Parts
- Labor
- Preventative Maintenance (2 Per year)
- Shipping Method-Next Day
- Does not cover abuse, misuse, tampering, or Acts of God
- Pricing is based on the entire coverage period
- Billing will be done on a quarterly basis prior to the expiration of the initial warranty.
- Upon selecting this coverage, contract will start on the first day after the expiration of the existing warranty

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##### One (1) Year Silver Coverage for RadPRO Mobile 40kW DR Mobile Single Detector Radiographic System

- Unlimited Phone Technical Support and Applications Support (Hours 8 am - 8 pm EST, M-F, Excluding Virtual Imaging Holidays)
- Parts Coverage
- Shipping Method-Next Day
- Does not cover abuse, misuse, tampering, or Acts of God
- Pricing is based on the entire coverage period
- Billing will be done on a quarterly basis prior to the expiration of the initial warranty.
- Upon selecting this coverage, contract will start on the first day after the expiration of the existing warranty