

WAREHOUSE B30003  
V.A. Medical Center  
VA Medical Center  
2907 PLEASANT VAL BLVD  
ALTOONA, PA 16602-4377

PO# 503-B30003

## EQUIPMENT DETAILS

### RadPRO FM-1 Floor-Mounted Radiographic System with Canon CXDI-70C Wireless Digital Detector

Qty	Description
1	<p><b>RadPRO FM-1 Floor-Mounted Radiographic System with Canon CXDI-70C Wireless Digital Detector</b></p> <p><b>RadPRO 50kW 3-Phase 480V Integrated DR Generator</b></p> <ul style="list-style-type: none"><li>- High Frequency, 1 Tube Operation.</li><li>- High Speed Starter</li><li>- Microprocessor Controlled</li><li>- Auto diagnostic System</li><li>- Tube overload protection continuously monitoring of the remaining X-Ray Tube Heat Units</li><li>- Control of X-ray Tube Number of Exposures up to 999,999 exposures.</li><li>- Anatomical Program Console</li><li>- Power 50 kW.</li><li>- kVp Range from 40 kVp to 150 kVp in 1 kVp Steps.</li><li>- mA Range from Minimum 10 mA to Maximum 640 mA. 19 mA Stations. Renard Scale : 10, 12.5, 16, 20, 25, 32, 40, 50, 64, 80, 100, 125, 160, 200, 250, 320, 400, 500, 650 mA.</li><li>- Time range from 1 ms. to 10 sec. 41 Time Stations. Renard Scale</li><li>- mAs range from 0.1 mAs to 500 mAs.38 mAs Station. Renard Scale</li><li>- Up to Two Buckies.</li><li>- User Friendly Control Panel with Digital Displays for kVp, mA, time and mAs.</li><li>- PREP/EXPOSURE X-ray Hand-Switch</li><li>- Automatic Exposure Control + AEC Adaption Module</li><li>- Canon-Link Interface for integrated single-console system</li></ul> <p><b>Step-up Transformer</b></p> <p>Must be installed by customer's electrician</p>

Qty	Description
	<p>VTAB-FM1-M-BKY70 <b>RadPRO FM-1 4-Way Float Elevating Table with Bucky and Cassette Tray for use with Canon CXDI-70C Wireless Detector</b></p> <ul style="list-style-type: none"> <li>- Bucky Table Top with laminated material in white color plastic - 770 lbs Lift Capacity</li> <li>- Absorption 0.9 mm Al equivalent.</li> <li>- Table Top Dimensions 220 x 80 cm</li> <li>- Maximum Distance from Table Top to Floor 90 cm</li> <li>- Minimum Distance from Table Top to Floor 40 cm</li> <li>- Vertical Travel 50 cm</li> <li>- Table Top to Film Distance 7cm</li> <li>- Electromagnetic Brakes.</li> <li>- Longitudinal Travel 110 cm (-50 cm, + 60 cm)</li> <li>- Transversal Travel 24 cm (± 12 cm)</li> </ul> <ul style="list-style-type: none"> <li>- Adapting Kit for Manual Bucky and Cassette Tray</li> <li>- Bucky and Cassette Tray</li> </ul> <ul style="list-style-type: none"> <li>- 132 Line, 10:1, 34'-44' Focus Grid</li> <li>- Three Field Ion Chamber with 45' Cables</li> </ul> <p><b>RadPRO FM-1 Floor-Mounted Tubestand with 400KHU X-Ray Tube and Manual Collimator</b></p> <p>Linear Movements</p> <ul style="list-style-type: none"> <li>- Total Column Height 237 cm</li> <li>- Longitudinal Rails Length / Travel 275/210 cm</li> <li>- Tube Arm Transversal Travel (± 15 cm = 30 cm)</li> <li>- Tube Arm Vertical Travel 150 cm</li> <li>- Balancing System with counterweights</li> <li>- Electromagnetic brakes</li> </ul> <p>Rotational Movements</p> <ul style="list-style-type: none"> <li>- Tube Arm Rotation Vertical Axis ± 90°</li> <li>- Tube Arm Rotation Horizontal Axis ± 150°</li> <li>- Mechanical Detent every 90°</li> </ul> <p>Control Panel</p> <ul style="list-style-type: none"> <li>- Moving handles coated with synthetic rubber - Control of the brakes by push buttons</li> <li>- Digital display of SID and Angle for the X-Ray Beam</li> </ul> <p>400KHU X-Ray Tube, 0.6 - 1.2 Focal Spot, 12 Degree Target Angle</p> <p>40' High Voltage Cables with Covers</p> <p>Manual Collimator with Laser Light</p> <p><b>RadPRO FM-1 Non-Tilting Wall Stand with Bucky and Cassette Tray for use with Canon CXDI-70C Wireless \$</b></p> <ul style="list-style-type: none"> <li>- Vertical Travel 140 cm.</li> <li>- Maximum height to the Center of the Bucky 190 cm</li> <li>- Electromagnetic Brakes</li> </ul> <p>Side Hand Grips</p> <p>Adapting Kit for RadPRO Wall Stands for use with Bucky and Cassette Tray</p> <p>Manual Bucky and Cassette Tray</p> <p>132 Line, 10:1, 40'-72' Focus Grid</p> <p>Three Field Ion Chambers with 45 Foot Cables</p> <p><b>Canon CXDI-70C Room Package</b></p> <p>Canon CXDI-70C Wireless Detector</p> <p>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 minimal 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 weighing 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.</p> <p>Includes:</p> <ul style="list-style-type: none"> <li>1 - CXDI-70C Wireless imaging unit</li> <li>1 - Operation manual</li> <li>2 - Battery Packs</li> </ul> <p>Features and Specifications:</p> <p>Detector</p> <ul style="list-style-type: none"> <li>- Scintillator: Cesium Iodide</li> <li>- Pixel Pitch: 125 microns</li> <li>- Pixels: 2,800 x 3,408 (9.5 million)</li> </ul>

Qty	Part Number	Description
		<ul style="list-style-type: none"> <li>- Imaging Area: 14 inches x 17inches (35 cm x 43 cm)</li> <li>- Battery Performance: 140 images (@100 sec cycle, 1 sec sleep)</li> <li>- Wireless Standard: IEEE 802.11N</li> </ul> <p>Image Acquisition</p> <ul style="list-style-type: none"> <li>- A/D: 14 bit</li> <li>- Grayscale: 12 bit (4,096 gradations)</li> <li>- Preview Image: 3-5 seconds</li> </ul> <p>Electrical and Environmental</p> <ul style="list-style-type: none"> <li>- Voltage: 100V, 120V, 230/240V (50/60Hz)</li> <li>- Power Consumption: 170VA maximum (Detector unit only)</li> <li>- Operating Environment: 41-95°F (5-35°C), 30-50% RH (non-condensing)</li> </ul> <p>Physical Characteristics</p> <ul style="list-style-type: none"> <li>- Dimensions (WxLxH): 15 inches x 18 inches x 0.6 inch (384 x 460 x 15 mm)</li> <li>- Weight: 7.5 lbs. (3.4 kg)</li> </ul> <p>Control Station for Canon Control Software NE</p> <p>PC Specifications:</p> <p>Intel Core 2 Quad Core CPU  4 GB High-Speed RAM  500 GB SATA Hard Drive  DVD/RW Burner (SATA)  Microsoft Windows 7 64-Bit Operating System  Optical Mouse  Full Size Keyboard</p> <p>Canon X-Ray Interface Unit</p> <p>Canon Battery Charging Unit</p> <ul style="list-style-type: none"> <li>- Charges two batteries at once</li> <li>- Quick charging, full recharge in &lt;3 Hours from zero</li> <li>- Indicator lights for when battery is charging and fully charged</li> </ul> <p>Canon Control Software NE</p> <p>Control Software NE Features:</p> <p>System Startup &amp; Quality Assurance</p> <ul style="list-style-type: none"> <li>- Standard Mode: No log-in required</li> <li>- Secure Mode: Operator log-in/password required (user authentication); auto time-out with log-in to last screen viewed</li> <li>- Warm-up time: None</li> <li>- Battery/Wi-Fi Monitor: Software to allow wi-fi strength monitor and battery monitor for CXDI-70C Wireless configurations.</li> <li>- Calibration Routine: Included; required once per year; configurable on-screen reminder message</li> <li>- Display QA: SMPTE pattern included</li> </ul> <p>Image Acquisition</p> <ul style="list-style-type: none"> <li>- Programming: Unlimited anatomically programmed acquisition settings; user customizable to include annotation, orientation, patient demographics display location, and pre-selected basic and enhancement processing</li> <li>- 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)</li> <li>- Grid Suppression: Software-based grid suppression</li> <li>- Protocol Pre-Pack: Allows for multiple APR views to be associated into one APR for easy grouping of views within a study.</li> <li>- Auto-Stitch (v1.2): Multiple images can be stitched together within the software.</li> </ul> <p>Image Processing</p> <ul style="list-style-type: none"> <li>- 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</li> <li>- 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</li> <li>- Preset and adjustable multi-frequency dynamic range adjustment; global edge enhancement</li> <li>- 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.</li> </ul> <p>Data Output and Network Connection</p> <ul style="list-style-type: none"> <li>- 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</li> <li>- 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</li> <li>- CD Archive: Available as network selectable storage device with DICOMDIR (hardware not included)</li> <li>- Network: Ethernet 10/100/1000 Base T, RJ45 standard</li> <li>- Data Output: DX; DICOM 3.0 compliant, Print Management Service Class (SCU), Storage Service Class (SCU) and others</li> <li>- IHE Profiles: Basic Security Profile option - User Authentication, Audit Log, Time Synchronization, Node Authentication</li> </ul> <p>DICOM Modality Worklist for Canon CXDI Digital Radiography systems is a communications module for acquiring</p>

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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.

**Room Component Bundle for Canon CXDI-70C Wireless Digital Detector**

**Bundle Package Includes:**

- 20.1" Medical Grade Touchscreen LCD Monitor - Wireless Access Point
- Power Injector for Wireless Access Point - Infrared Check-In Unit
- Gigabit Ethernet Switch
  - Wall Holder for CXDI-70C Wireless + Grid
  - (2) 550VA Uninterruptible Power Supplies

**Hands support for wall bucky stand (A6832-01)**

**Applications Training - Three (3) Days 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 \$1,800 per day. A total of Three (3) days applications training under the agreement is \$1,800.

**Includes Standard Installation**

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

**Warranty - One (1) year Parts and Labor on Canon DR System & RadPro Products.**

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

**NOTE - ALPHA IMAGING, LLC. WILL BE THE INSTALLATION AND SERVICE AGENT FOR VIRTUAL IMAGING, INC. A CANON U.S.A. COMPANY.**

each option below will be added to the total above if accepted. These items may replace other items in the quotation above, and will be indicated per item.

1 **ADD: Substitute 4-Way Float Elevating Table with Dual-Mode 70 Series Docking Station for Table with Bucky and Cassette Tray**

**Substitute: RadPRO FM-1 4-Way Float Elevating Table with Dual-Mode 70 Series Docking Station**

- Bucky Table Top with laminated material in white color plastic - 770 lbs Lift Capacity
- Absorption 0.9 mm Al equivalent.
- Table Top Dimensions 220 x 80 cm
- Maximum Distance from Table Top to Floor 90 cm
- Minimum Distance from Table Top to Floor 40 cm
- Vertical Travel 50 cm
- Table Top to Film Distance 7cm
- Electromagnetic Brakes.
- Longitudinal Travel 110 cm (-50 cm, + 60 cm)
- Transversal Travel 24 cm (± 12 cm)
- Adapting Kit for Dual-Mode Portrait/Landscape Docking Station
- for CXDI-70C Wireless Detector - Dual-Mode Portrait/Landscape
- Rotating Docking Station for CXDI-70C Wireless Detector

- 132 Line, Carbon Fiber, 10:1, 34' - 44' Variable Focus Grid

- Three Field Ion Chamber with 45' Cables

1 **ADD: Substitute Non-Tilting Wall Stand with Dual-Mode 70 Series Docking Station**

**Substitute: RadPRO FM-1 Non-Tilting Wall Stand with Dual-Mode 70 Series Docking Station**

- Vertical Travel 140 cm.
- Maximum height to the Center of the Bucky 190 cm
- Electromagnetic Brakes

Side Hand Grips

Adapting Kit for Dual-Mode Portrait/Landscape Docking Station for CXDI-70C Wireless

Dual-Mode Portrait/Landscape Docking Station for CXDI-70C Wireless

132 Line, 10:1, 40'-72' Focus Grid

Three Field Ion Chambers with 45 Foot Cable

Hands support for wall bucky stand (A6832-01)

1 **Canon Genuine Handle Unit with Grid Frame and Carbon Fiber Grid**

Package Includes:

- Canon Genuine Handle Unit
- Canon Genuine Grid Frame
- Carbon Fiber, 10:1, 132 line, 40'-72' Focus Grid
- Compatible with Wire Unit (sold separately)

1 **Canon Genuine Handle Unit with Grid Frame and Carbon Fiber Grid**

Package Includes:

- Canon Genuine Handle Unit
- Canon Genuine Grid Frame
- Carbon Fiber, 6:1, 132LPI, 40-72
- Compatible with Wire Unit (sold separately)

1 **Wire Unit (For wired system configuration)**

1 **Snap-on 14 x 17, 8:1, 132lpi, 40-72 Lightweight Protect-A-Grid**

1 **2nd Year Parts and Labor Warranty for RadPRO FM-1 Single Detector 70C Wireless Digital Radiographic System, 400KHU Tube Coverage - Point-of-Sale Commitment Pricing** \$18,900.00 \$18,900.00

- Monday - Friday Coverage, 8:00am - 5:00pm
- Local Time - Includes 2 Preventive Maintenances Per Year
- 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

1 **VEXT-FM170-4G3YP 2nd and 3rd Year Parts and Labor Warranty for RadPRO FM-1 Single Detector 70C Wireless Digital**

**Radiographic System, 400KHU Tube Coverage - Point-of-Sale Commitment Pricing**

- Monday - Friday Coverage, 8:00am - 5:00pm Local Time
- Includes 2 Preventive Maintenances Per Year
- 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

**2nd, 3rd and 4th Year Parts and Labor Warranty for RadPRO FM-1 Single Detector 70C Wireless Digital Radiographic System, 400KHU Tube Coverage - Point-of-Sale Commitment Pricing**

- Monday - Friday Coverage, 8:00am - 5:00pm Local Time
- Includes 2 Preventive Maintenances Per Year
- 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

**2nd, 3rd, 4th and 5th Year Parts and Labor Warranty for RadPRO FM-1 Single Detector 70C Wireless Digital Radiographic System, 400KHU Tube Coverage - Point-of-Sale Commitment Pricing**

- Monday - Friday Coverage, 8:00am - 5:00pm Local Time
- Includes 2 Preventive Maintenances Per Year
- 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