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WAREHOUSE B30004
V.A. Medical Center
VA Medical Center
2907 PLEASANT VAL BLVD
ALTOONA, PA 16602-4377
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PO# 503-B30004

EQUIPMENT DETAILS

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

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

RadPRO 50kW 3-Phase 480V Integrated DR Generator

- High Frequency, 1 Tube Operation.
- High Speed Starter
- Microprocessor Controlled
- Auto diagnostic System
- Tube overload protection continuously monitoring of the remaining X-Ray Tube Heat Units
- Control of X-ray Tube Number of Exposures up to 999,999 exposures.
- Anatomical Program Console
- Power 50 kW.
- kVp Range from 40 kVp to 150 kVp in 1 kVp Steps.
- 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.
- Time range from 1 ms. to 10 sec. 41 Time Stations. Renard Scale
- mAs range from 0.1 mAs to 500 mAs.38 mAs Station. Renard Scale
- Up to Two Buckies.
- User Friendly Control Panel with Digital Displays for kVp, mA, time and mAs.
- PREP/EXPOSURE X-ray Hand-Switch
- Automatic Exposure Control + AEC Adaption Module
- Canon-Link Interface for integrated single-console system
Step-up Transformer

Must be installed by customer's electrician

Qty	Description		

RadPRO FM-1 4-Way Float Elevating Table with Bucky and Cassette Tray for use with Canon CXDI-70C Wireless Detector

- 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 Manual Bucky and Cassette Tray

- Bucky and Cassette Tray

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

- Three Field Ion Chamber with 45' Cables

RadPRO FM-1 Floor-Mounted Tubestand with 400KHU X-Ray Tube and Manual Collimator

Linear Movements
- Total Column Height 237 cm
- Longitudinal Rails Length / Travel 275/210 cm
- Tube Arm Transversal Travel (± 15 cm = 30 cm)
- Tube Arm Vertical Travel 150 cm
- Balancing System with counterweights
- Electromagnetic brakes

Rotational Movements
- Tube Arm Rotation Vertical Axis ± 90º
- Tube Arm Rotation Horizontal Axis ± 150º
- Mechanical Detent every 90º

Control Panel
- Moving handles coated with synthetic rubber -
Control of the brakes by push buttons
- Digital display of SID and Angle for the X-Ray Beam

400KHU X-Ray Tube, 0.6 - 1.2 Focal Spot, 12 Degree Target Angle

40' High Voltage Cables with Covers

Manual Collimator with Laser Light

RadPRO FM-1 Non-Tilting Wall Stand with Bucky and Cassette Tray for use with Canon CXDI-70C Wireless Detector

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

Side Hand Grips

Adapting Kit for RadPRO Wall Stands for use with Bucky and Cassette Tray

Manual Bucky and Cassette Tray

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

Three Field Ion Chambers with 45 Foot Cables

Canon CXDI-70C Room Package

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 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.

Includes:
1 - CXDI-70C 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)

Qty	Part Number	Description		

- Imaging Area: 14 inches x 17inches (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)

Control Station for Canon Control Software NE

PC Specifications:

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

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

Canon Control Software NE

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-70C 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

Qty	Part Number	Description		

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.

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**

ubstitute: 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**

purchase.

1   V   **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**

- 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

1 V   **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

1   **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