

DESCRIPTION



**Shimadzu RadSpeed (Auto) 80kW Dual Detector
Digital Radiographic (DR) System with Advanced
Features**

RadSpeed Elevating Radiographic Table:

- Horizontal, elevating radiographic table
- Vertical Table Travel: From 54cm to 85cm (21.25" to 33.5")
- Four (4) way floating top: From 115cm longitudinal travel, and +/- 12.5cm transverse, Flat table top construction, Maximum patient load of 295kg (650 lbs)
- 200/(208)/220/230/240V 1 kVA Single-phase incoming line
- Permanent Electromagnetic locks; locked without power
- Table Top Collision Protection Sensor
- Small pedestal footprint
- Standard Aluminum Grid (10:1 Ratio; 40 lines/cm; 40" focal distance)
- Convenient and safe foot controls for elevation and locks
- Designed to meet US
- Bucky Travel 40cm
- Bucky with Photo timer; 3 field
- **Table Locking Grip Switch – Mushroom Style**
- **Rear Table Foot Switches**

RadSpeed 80kW Generator:

- Three Phase High Frequency inverter
- 80kW Rating, Three Phase
- 380/400/415/440/480 Vac 3 Phase input power 75 KVA
- Color LCD Touch Screen Display
- Large Readout for ease of Viewing
- Jog Dials for Manual Selection
- Up/Down Buttons for Fine Manual Selection
- kV mA, mAs and time adjusted with both up/down or dial
- Easy View "Ready-Up" and Exposure Status Lamps on Generator and Handswitch
- Micro Processor Controlled
- Automatic Exposure control
- kV Range: 40-150 kV in 1kV increments
- mA Range: 10-1000 mA (12 presets per Focal Spot)
- mAs: .5-800 mAs; 500 mAs max with AEC

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<ul style="list-style-type: none"> ▪ Time Settings: 0.001 – 10 seconds ▪ Anatomical Programmed Radiography (APR) ▪ High Speed Starter ▪ Self Diagnostic function with display of error codes ▪ Wall Stand Mounting Bracket <p>RadSpeed CH-200 Auto ceiling Tube Mount (Front Mount):</p> <ul style="list-style-type: none"> ▪ 200/(208)/220/230/240V 1 kVA Single-phase incoming line ▪ Color Touch Screen control panel ▪ Color LCD Touch Screen rotates automatically with tube rotation ▪ Eight programmable switches for locks (user customizable) ▪ Anatomical Programmed Radiography (APR) control at tableside ▪ Easy to clean surfaces ▪ Positive touch release operation handles for quick positioning ▪ One-button full-way motion release ▪ 3 way lock release, Vertical lock release and collimator light switches on rear of tube suspension ▪ Spring balanced for easy movement ▪ Reliable locking system allows any angulation to be held in position ▪ Pop-up information message window on display ▪ Over Table X-Ray Tube; 400 KHU; (12 degree, 0.6 x 12. Focal) ▪ Semi-Automatic Collimation System ▪ Vertical Travel – 160cm (5'3") <p>4.0 Meter Ceiling Rails:</p> <ul style="list-style-type: none"> ▪ Longitudinal rails 4.0 meters (13'1") ▪ Longitudinal Travel – 295cm (9'8") (286cm w/Tomo) ▪ Transverse Rails – 260 cm (8'6") ▪ Transverse Travel – 200cm (6'7") <p>RadSpeed Wall Bucky Stand</p> <ul style="list-style-type: none"> • Extensive Vertical Travel to accommodate all patient ranges and studies • Vertical travel: from 62.7cm to 214.7cm (24.68 to 84.5 inch) • Automatic Collimation • Remote collimation control options allows the operator controlling the x-ray field from the patient side • Three-Field AEC Sensor System • Standard Aluminum Grid; 10:1, 40 line/cm, 48-72" focal distance • Wall Stand Mounting Bracket 		

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- Overhead Patient Handgrip
- Left and Right Side Patient Handgrips
- **Automatic Vertical tracking of tubestand and wall bucky**

Canon CXDI-70C 14"x17" Portable/Wireless DR 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 (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
- 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 (35cm x 43cm)
- 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 15mm)
- Weight: 7.5 lbs. (3.4kg)

1 - Wireless Access Point

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- 1 - X-Ray Interface Unit
- 1 - Battery Charging Unit
- 1 - Infrared Check-In Unit
- 1 - Control Station for Canon Control Software NE

CXDI-401C 17"x17" Fixed Detector

- 17" x 17" full imaging field
- Amorphous Silicon Sensor (a-Si)
- 11.3 million pixels (3,320x3,408)
- 14 bit / 4096 gray scale (14 bit A/D)
- Scintillator - Cesium Iodide
- 125 micron pixel pitch
- Storage Service Class
- Ethernet 10/100 Base T
- Power Supply
- Cables & Multi-box

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

1 - Canon 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

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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

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<ul style="list-style-type: none"> 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: <p><u>Study Information Acquisition:</u></p> <ul style="list-style-type: none"> 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. <p><u>Study Status Notification:</u></p> <ul style="list-style-type: none"> Supports Modality Performed Procedures Step SOP Class (PPS) with progress, completed, or discontinued messages PPS is available for both suite and portable imaging Multi-accession imaging <p><u>Imaging Modes:</u></p> <ul style="list-style-type: none"> 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 be 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 view can be customized to meet the needs of the facility Requires Program Imaging Mode Set Up and Implementation Fee <p>Optional DICOM tag can be defined, displayed, printed, and transmitted to PACS.</p> <p>Pregnancy Status can be received from HIS/RIS and an alert displayed to inform the user of the pregnancy status.</p> <p>Storage Commit function is available</p> <p>1 – Gigabit Ethernet Switch</p> <p>1 – (2) APC Back-UPS ES offers affordable battery backup and surge protection for computers. With enough power outlets to protect your entire system, built-in phone/fax/modem line (DSL</p>		

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compatible) protection and easy-to-install safe system shutdown software all make this power protection solution the best value for computers.

Main Features:

- UPS (external)
- AC 120V
- 330 Watt
- 550VA
- 8 output connector(s)

1 – Snap-On Grid, 10:1, 132 lpi, 40" – 72" Focus, Carbon Fiber Interspaced

1 – Wall Holder for Canon Portable Detector and Grid

XAT-2H Transformer (UD150*-40 for 200-240 Vac 3 phase input)

Applications (Three (3) Days Technologist Training)

TOTAL VA CCONTRACTED SYSTEM PRICE:

System includes:

- 1 Preliminary and 1 Final set of Site Specific Drawings
- 3 Days Applications Training with CEU's for qualified RT's
- 1 Year Full Parts and Labor Warranty Provided by CMS Imaging

OPTION:

Shimadzu Vertical, Horizontal Tracking - Speed Stitching to table and wall bucky

-Motorized tubestand and wall bucky automatically aligns up 4 consecutive images for long length and scoliosis studies. Automated Features allow up to 3 consecutive images with table exams.

-Includes automatic stitching program with the Canon NE software.

-Includes the Shimadzu locking patient stabilization stand.

Biomedical Service Training Class (Includes one week Standard and one week DR panel training):

Biomedical Training - Airfare Prepay:

Biomedical Training – Lodging Prepay: