



you can
Canon

ADORA

Digital Radiographic Imaging



The ultimate solution.

Ultimate flexibility. Manage more DR applications. With less effort.

Canon has been an innovative leader in the field of medical technology for over sixty years. Now, with the introduction of Adora, developed jointly with NRT, we continue this proud pioneering tradition. This ultimate digital imaging solution lets you manage more DR applications, with less effort. It's the easiest way to speed up your workflow significantly, while enhancing patient comfort and care.

Canon CXDI-50C: the heart of the system

Canon's advanced CXDI-50C flat panel detector provides fast, high quality, digital image capture on demand. Operating at the heart of the Adora system, it covers an extensive range of radiographic applications - ready to meet all your DR imaging needs. Portable and lightweight, it can even be detached from the Adora docking station for use in bedside and trauma examinations.



High quality images in seconds

Get clear, high-resolution diagnostic images in 14-bit greyscale (4,096 gradations) thanks to Canon's Amorphous Silicon (a-Si) Flat Panel Detector and Caesium Iodide (CsI) scintillator. Capture subtle contrast and fine image detail that would otherwise appear over or underexposed on conventional film. Preview images are available just seconds after exposure, and the detector is ready for the next X-ray exposure just moments later thanks to a fast refresh cycle.





Large imaging area

The CXDI-50C features a large 35 x 43 cm imaging area to capture detailed X-rays from virtually any position and any angle. It allows examinations of the skull, spine, chest, hip and abdomen, as well as patient extremities. With its generous panel size, this detector accommodates a wide variety of exams.

Maximum efficiency with minimum X-ray exposure

The CXDI-50C delivers high-quality images with minimal X-ray exposure to your patients. Canon's advanced LANMIT technology is highly sensitive for superb dose efficiency. The detector is coated with a scintillator made of an array of tiny Caesium Iodide (CsI) crystals. This offers the dual benefits of more effective X-ray absorption and higher signal-to-noise performance compared with conventional systems.



Ultimate ease. Ergonomic and easy to operate. No strain on staff.

Every element of the Adora system has been ergonomically designed to ensure less stress and physical strain for medical staff. This fully automatic, motorised system is simple to operate right from the start... without the need for specialised operators or lengthy, in-depth training. With fewer buttons, less learning time and greater ease, your staff can concentrate more on caring for patients.



SmartHandle: handling all the heavy work for you

The Adora SmartHandle prevents the risk of staff back strain. Automatic operation with smooth, power-assisted movements ensures precise and easy positioning of the detector and tube, even for complex DR examinations. The ergonomic SmartHandle controls up to 3 movements in the X, Y and Z plane at the same time. Software ensures intuitive and easy-to-follow use, even when parts of the system are tilted and turned.



User-friendly floating touch screen

The innovative floating touch screen - which displays and controls the SmartHandle movements - tilts to keep text always horizontal to the user. Short, simple menus and self-explanatory icons guide you through every step of the DR process. The touch screen also displays patient data and positioning data.



340° rotation table for easy access to the patient

The durable carbon fibre patient table with floating top and 340 degree rotation around the base ensures easy patient access. Rotation and height adjustment movements are operated from the control panel situated on the table. The two telescopic arms supporting the X-ray tube and detector can be positioned individually. This allows for horizontal projections from each side of the table - enabling both right and left axial hip imaging, without repositioning the patient.

Handy ceiling hoist system

The optional patient ceiling hoist system is indispensable for handling immobile, elderly and overweight patients. Consisting of an integrated patient ceiling hoist and lifting sling, it enables staff to manoeuvre patients into position with minimum hassle and maximum ease.

Intelligent anti-collision software for total security

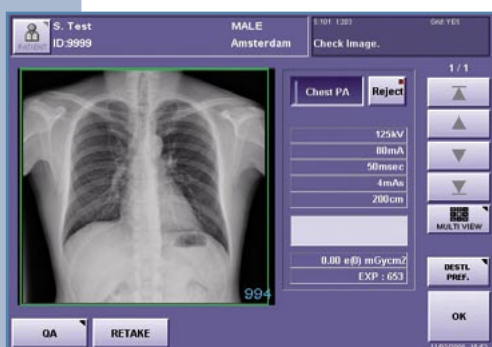
Sophisticated anti-collision software avoids handling accidents by automatically calculating the movement of the tube positioner, detector positioner and patient table. If a unit is moved into the collision zone, speed is automatically reduced. A proximity sensor, fitted to the detector unit, detects any obstacles and signals to the relevant motor to reduce speed and stop.

Ultimate efficiency. Speed up patient throughput. Save time and money.

Streamline your entire DR imaging procedure and speed up patient throughput within your hospital or medical centre. Handle more patients more efficiently and enhance overall DR data management... resulting in significant time and cost savings. Instant image capture allows quicker patient diagnosis and treatment – whilst advanced connectivity enables remote viewing, printing and archiving.

HIS/RIS ready with easy auto positioning

The Adora system is HIS/RIS ready, fitting seamlessly into your hospital information system. A touch screen user control console offers easy set up with auto-positioning using anatomical DR programme selection. Up to 999 auto positions can be stored in the system. Adora moves automatically to the user selected exposure position when the anatomical DR programme button is activated. 'Hands-on' motor assisted positioning can be requested at any time.



Convenient preview of X-ray images

Images can be previewed immediately after exposure, directly on the monitor. This allows staff to check images and then, if necessary, take further exposures. A fast refresh cycle allows a new exposure to be taken almost instantly. The end result is accurate DR imaging in all circumstances.

Automatically send selected images straight to PACS

Post processing of images can be carried out on the user control panel. Images can be selected and sent straight to your hospital PACS system - ensuring easy and efficient managing and archiving of medical images. DICOM compatibility also enables seamless data transfer to any DICOM hard copy output device. Optional image stitching adds to flexibility.



Boosting productivity from start to finish

The Adora system offers the ideal way to boost productivity and improve health care delivery, right from start to finish. It provides fast and accurate direct DR imaging from every angle - using a sophisticated and fully automatic system that is surprisingly simple to use. It improves the working environment for staff and also adds to patient comfort and care. Benefit from flexibility, ease and efficiency with the ultimate solution: Adora.



Specifications ADORA

CEILING TUBE / DETECTOR POSITIONER SDD Ceiling unit	30-200 cm Rotation: +/- 260°
TABLE Height adjustment Max load Table top material Size	55-94 cm 250 kg Carbon fibre 200 x 70 cm
X-RAY GENERATOR AND TUBE Generator type Rating kV range mA range Focal spot (IEC)	Fully integrated, high-frequency (100kHz) 65kW 40 to 150 kV 10 to 800 mA 0.6-1.0 mm
COLLIMATOR Type Collimation Patient Spot Light Rotation of collimated area	Fully automatic, motorised with manual override, rotatable Motorised square collimation Timer controlled after last system movement. Adora light dims when collimator light is on Endless
DAP type	Calculated, measured data transfers with DICOM header
DETECTOR DOCKING AEC Protection	5-field, solid state, carbon-fibre Anti collision proximity sensing on the upper surface
GRID Type Choice of one as standard	Transparent, Stationary, Interchangeable Fo 110cm or 140cm, 10:1 ratio Fo 180cm, 12:1 ratio Lines parallel to short or long edge available Additional grids are optional

Specifications CXDI-50C

Method	Flat panel detector: scintillator & amorphous silicon (a-Si)
Sensor	Large Area New-MIS sensor and TFT
Scintillator	Standard CXDI-50C with CsI (Caesium Iodide) Alternative CXDI-50G with GOS Gadolinium Oxisulphide (Gd2O2S: Tb)
Pixel pitch	160 microns
Pixels	2,208 x 2,688 pixels (5,9 million pixels)
Image size	35 x 43 cm
A/D	14-bit
Grayscale	4,096 grayscale (12-bit)
Preview image access time*	Approx. 3-5 seconds after X-ray exposure
Interface	DICOM 3.0, Ethernet 10/100 Base T
DICOM	DICOM 3.0 compatible. Print Management Service Class (SCU), Storage Service Class (SCU), and others
Voltage	100V, 120V, 230/240V (50/60Hz)
Power consumption	Sensor unit: 200VA maximum
Operating environment	Sensor unit: 5-35°C, 30-75% RH (non-condensing)
Certification	FDA 510(k), FCC Class A, UL 2601-1, EN60601, CE0197
Dimensions	Sensor unit (W x L x T): 491 x 477 x 23 mm
Weight	Sensor unit: 4.8 kg
Optional	DMWL (DICOM Modality Worklist) including MPPS (Modality Performed Procedure Step)

* Actual times may differ due to various factors.

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