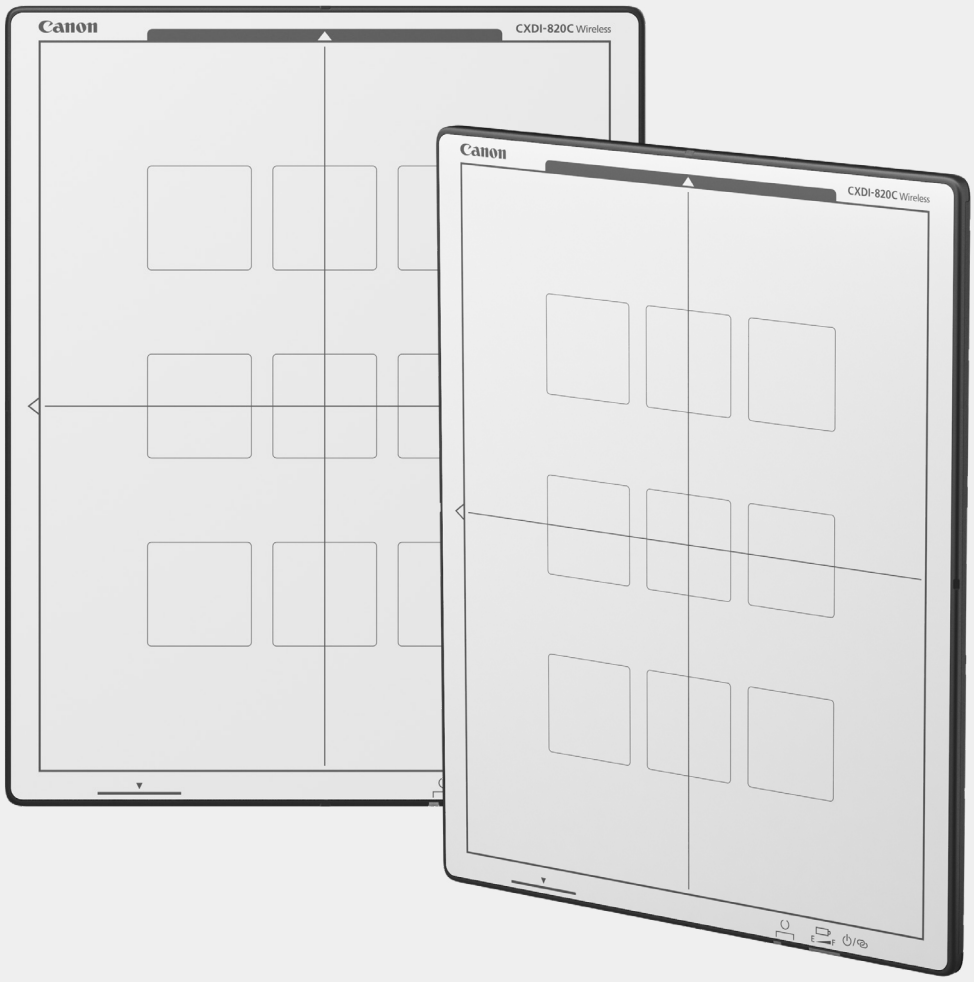
CXDI-820C WIRELESS

Canon's latest generation wireless flat panel detector takes you to new heights of possibilities in digital radiography.

Offering excellent imaging quality, design excellence and intuitive features, the CXDI-820C Wireless detector is ideal for mobile applications or any general X-ray needs.

DIGITAL RADIOGRAPHY
CXDI-Elite



For information and services contact

Canon Australia Pty Ltd 1800 444 199 canon.com.au
Canon New Zealand Ltd 0800 222 666 canon.co.nz

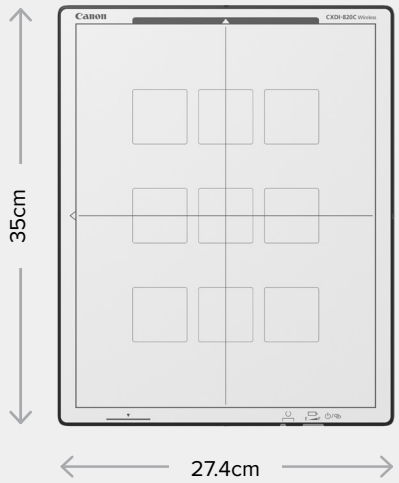
CXDI-820C WIRELESS DETECTOR

The new and improved CXDI-820C Wireless detector is designed to support the demands of medical imaging departments.

The panel is designed with usability, durability and user and patient comfort in mind, no matter what environment it is used in.

Dust and water resistance, on-board memory and the improved design are just a few of the intuitive new features of the CXDI-820C Wireless detector model that ensure the best performance in workflow, sensitivity, image quality and versatility.

EFFECTIVE IMAGE AREA SIZE



CXDI-820C: 27.4cm (W) x 35cm (H)

Built-in AEC Assistance

Built-in AEC Assistance

The CXDI-820C Wireless detector enables optimisation of X-ray dose without an additional receptor or external AEC (Automatic exposure control) sensor. It can detect the accumulated pixel value corresponding to received X-rays in real time at each AEC region of interest (ROI), and then notifying the X-ray generator when the pixel value reaches the preset value.

This makes the CXDI-820C Wireless panels ideal for free position imaging such as bedside X-ray examinations.

*Option software sold separately and Multibox (MB-02) is also required.

Excellent Image Quality

The CXDI-820C Wireless detector incorporates Canon's silicon core with high sensitivity Cesium Scintillator Iodide (CSI).

The impressive pixel pitch of 125 microns along with its high detector quantum efficiency (DQE) and modulation transfer function (MTF) levels assure the delivery of accurate, sharp, and excellent image quality at extremely low radiation doses.

DQE: 0.5 lp/mm
(16% improvement from prior models)

MTF: 2 lp/mm
(29% improvement from prior models)

Design Excellence

Designed to enhance both user and patient experience, the new and improved design of the CXDI-820C Wireless panels are ultra light in weight than previous models, and is equipped with ergonomic handgrips, making it easier to handle without any physical strains.

The panels not only have rounded corners allowing users to safely hold, position and move the panels in any environment, but now also have smooth surfaces to make the cleaning process easier.

On-board image storage

Up to 99 images can safely be stored in built-in memory. Images do not need to be transferred immediately and can be transferred at a later time when needed.

Dust and liquid resistance

The flat panel detectors are also IP57 rated for protection against dust and liquid intrusion. This provides peace of mind without having to worry about dust or liquid damage to the panel.

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INTELLIGENT NOISE REDUCTION (INR) SOFTWARE*

Intelligent NR
DEEP LEARNING

The Intelligent Noise Reduction (INR) is Canon's new original image processing feature which uses artificial intelligence to generate top class high quality X-ray images.

This new feature utilises a pre-learned model trained by the deep learning method of neural network on noise characteristics of approximately 3,000 X-ray images in the database obtained over the course of Canon's long history of developing the CXDI series.

This new technology has the potential to support better quality diagnoses on the front line of medical treatment and makes high-quality imaging with reduces X-ray dosages for patients possible.

Original Image.

Conventional NR.

Intelligent NR.

*Sold separately. These items are not included with the purchase of the flat panel detectors.

EASY HANDLING, SLEEK DETECTOR DESIGN

The sleek, tough and ergonomically sculpted design includes the following features to enhance the user and patient experience:

- Comfortable to hold and easy to grip, due to the light weight and ergonomic handgrips sculpted into the detector.
- High quality composite materials.
- Designed with form and function in mind.
- Easy to position and comfortable for patients and technologists, due to smooth, rounded corners.

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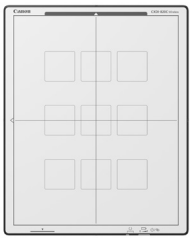
CXDI-820C WIRELESS

CXDI-820C WIRELESS DETECTOR SPECIFICATIONS**	
Model Name	**CXDI-820C Wireless**
Purpose	General Radiology
Method	Flat Panel Detector: Scintillator and Amorphous Silicon (a-Si)
Scintillator	Cesium Iodide
Weight (including battery)	1.8kg (4.0lb)
Effective Imaging Area	27 x 35 cm (11 x 14 inch)
External Dimensions	31 x 38 cm (12 x 15 inch)
Image Matrix Size	2192 x 2800 pixels
Pixel Size	125 um
Limiting Resolution	4.0 lp/mm
Greyscale	A/D: 16 bit
DQE	Typical 74% (0 lp/mm), 67% (0.5 lp/mm)■
MTF	Typical 45% (2 lp/mm)
Time Until Ready	3 Seconds◆
Preview Image Time	1 Second◆
Cycle Time	4 Seconds◆
Dust, Water Restistance Rating	IP57 (for dust protection against limited dust ingress and water protection against submersion in water upto 1 metre for 30 minutes)●
Battery Performance	Generator Connection Mode (interlocked exposure) Maximum 2,000 images @ 4 second cycle, average 160 images @ 100 second cycle○
	Automatic Exposure Detection Mode Maximum 1,900 images @ 4 second cycle, average 145 images @ 100 second cycle○
Charging Performance	Battery chanrging time approximately 150 minutes†
Wireless Standard	IEEE802.11ac
Wireless Channel/Band	2.4GHz, 5GHz
Optional Function Compatibility	Built-in AEC Assistance††, Intelligent NR, Scatter Correction

** Specifications subject to change.
■ 0lp/mm is extrapolated value IEC62220-1-12015 (RQA5).
◆ Depending on acquisition mode.
● Based on tests conducted by an independent institution. Certification does not guarantee against failure or damage.
● Depending on acquisition workflow.

† At an ambient temperature of 25°C (77°F).
†† Exposure termination is controlled by the X-ray generator and this feature requires connection to that system to be implemented by the manufacturer. In an environment with exceptionally strong radio interference, it may be recommended to use a wired, rather than wireless, connection. As with any AEC operation, appropriate exposure factors, with reasonable back-up time, should be set.

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