

- CXDI

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Ангарск (3955)60-70-56	Калуга (4842)92-23-67	Орел (4862)44-53-42	Тамбов (4752)50-40-97
Архангельск (8182)63-90-72	Кемерово (3842)65-04-62	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
Астрахань (8512)99-46-04	Киров (8332)68-02-04	Пенза (8412)22-31-16	Тольятти (8482)63-91-07
Барнаул (3852)73-04-60	Коломна (4966)23-41-49	Петрозаводск (8142)55-98-37	Томск (3822)98-41-53
Белгород (4722)40-23-64	Кострома (4942)77-07-48	Псков (8112)59-10-37	Тула (4872)33-79-87
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Вологда (8172)26-41-59	Москва (495)268-04-70	Саратов (845)249-38-78	Челябинск (351)202-03-61
Воронеж (473)204-51-73	Мурманск (8152)59-64-93	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
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Иваново (4932)77-34-06	Нижний Новгород (831)429-08-12	Смоленск (4812)29-41-54	Якутск (4112)23-90-97
Ижевск (3412)26-03-58	Новокузнецк (3843)20-46-81	Сочи (862)225-72-31	Ярославль (4852)69-52-93
Иркутск (395)279-98-46	Ноябрьск (3496)41-32-12	Ставрополь (8652)20-65-13	
Казань (843)206-01-48	Новосибирск (383)227-86-73	Сургут (3462)77-98-35	
Россия +7(495)268-04-70	Киргизия +996(312)-96-26-47	Казахстан +7(7172)727-132	

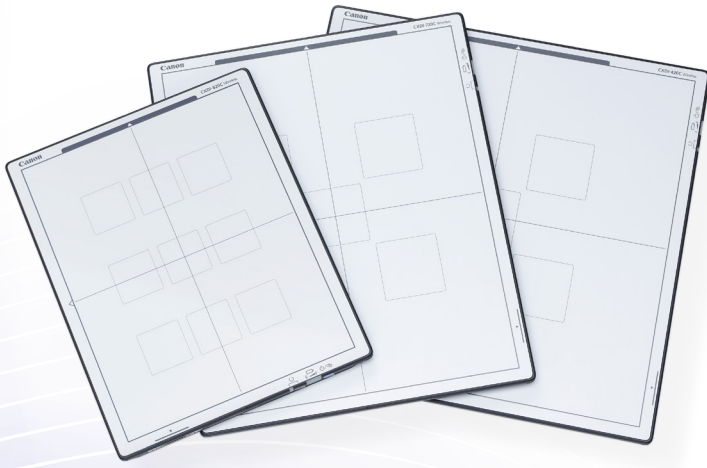


Canon



DIGITAL RADIOGRAPHY **CXDI-Elite**

Canon's state of the art wireless detector line-up takes you to new heights of possibilities in digital radiography. Intelligent NR, built-in AEC assistance, reduced weight, dust and waterproof, on-board memory and enhanced detector design are just a few of the clinically beneficial new features.



Excellent DQE and MTF

- DQE Typical 74% (0 lp/mm)
- MTF Typical larger than 45% (2 lp/mm)

Tough, Durable & Light weight

- From 1.8 kg
- High quality materials
- Covers can be exchanged
- Exchangeable batteries

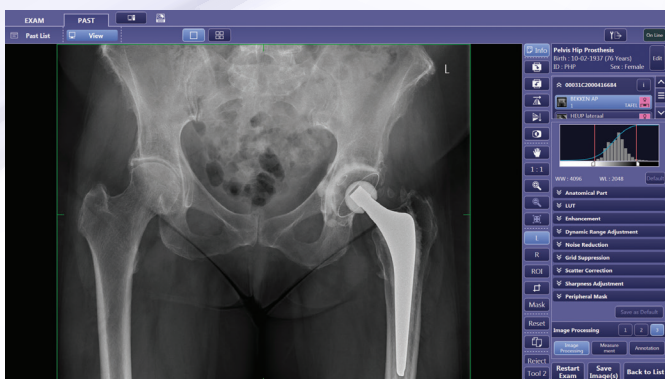
Ergonomic design

- Comfortable hold and grip
- Easier to position
- Less strain for operator
- Easy to clean smooth surface



Battery performance

- More than 9.5 hours in stand by mode
- Battery can easily be exchanged



CXDI Control Software NE

- Optimized workflow
- Body parts and customer specific image processing
- Secure
- Optional features like scatter correction, advanced edge enhancement, Intelligent NR, Built-in AEC assistance, etc.

Intelligent NR

DEEP LEARNING

- Intelligent noise reduction
- Improved image quality
- Possible dose benefit
- Assist diagnosis



Original image



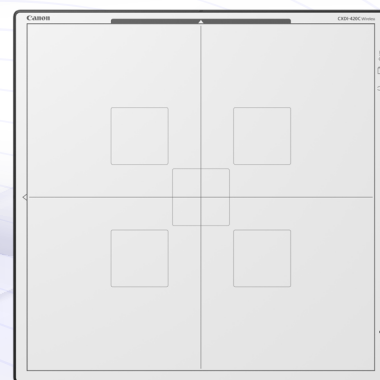
NR Conventional



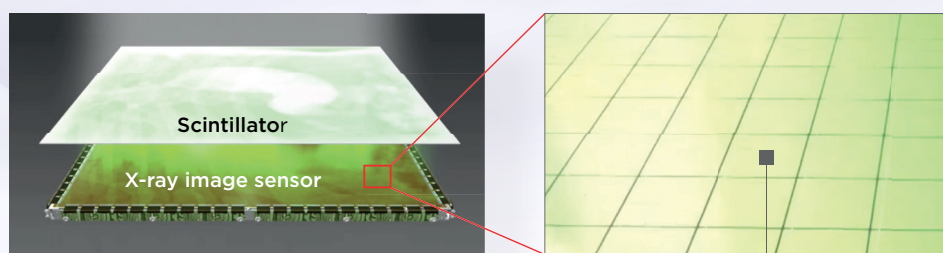
*Intelligent NR
Deep Learning*

Built-in AEC Assistance

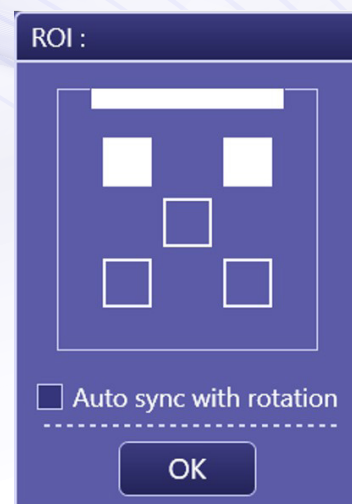
- Optimize X-ray dose without external AEC sensor
- Ideal for free positioning
- Auto ROI selection by rotation
- Different ROI patterns can be selected

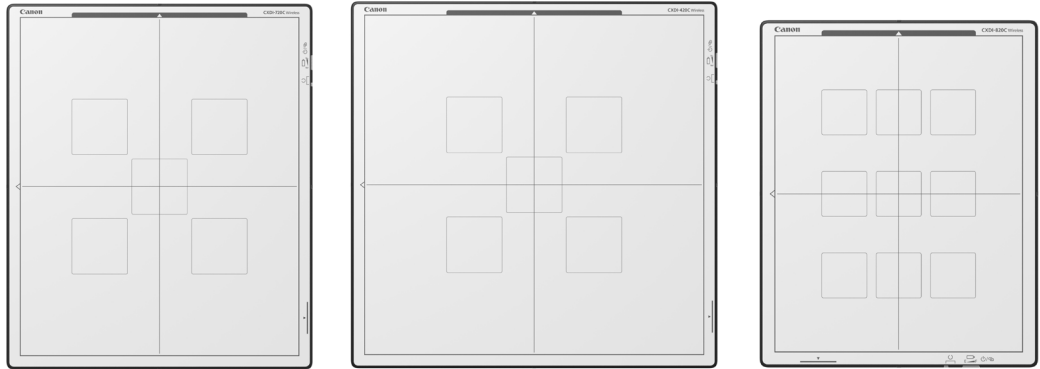


X-ray image sensor



Single pixel of X-ray image sensor





CXDI-Elite Series Specifications¹

Model name:	CXDI-720C Wireless	CXDI-420C Wireless	CXDI-820C Wireless
Purpose:	General Radiography		
Scintillator:	CsI (Cesium Iodide)		
Weight (incl. battery):	2.3 kg	2.7 kg	1.8 kg
Effective imaging area:	35 x 43 cm	43 x 43 cm	27 x 35 cm
External dimensions:	38 x 46 cm	46 x 46 cm	31 x 38 cm
Image matrix size:	2800 x 3408 pixels	3408 x 3408 pixels	2192 x 2800 pixels
Pixel size:	125 µm		
Resolution:	4.0 lp/mm		
DQE:	Typical 74% (0 lp/mm) / 67% (0.5 lp/mm) ²		
Grey scale:	A/D: 16bit		
Preview image time:	1 sec. ³		
Cycle Time:	4 sec. ³		
Dust- and waterproof:	IP57 ⁴		
Battery performance:	Standard Synchronisation mode Approx. 2000 images @ 7 sec. cycle, 100 images @ 100 sec. cycle. Non-Generator Connection mode Approx. 1900 images @ 7 sec. cycle, 145 images @ 100 sec. cycle.		
Charging performance:	Detector charging in detector stand: approx. 150 min. ⁵ In battery charger: approx. 150 min.		
Wireless channel/band:	2.4 GHz, 5 GHz (W52, W53, W56, W58) ⁶		



Detector stand



Battery Charger



Wiring Cable



Multi Box



Power Box



PC connection cable



Ready Indicator



Status Indicator



Battery Pack

¹Specifications subject to change.

²0 lp/mm is extrapolated value IEC62220-1-1 2015 (RQA5).

³Dependent on acquisition mode.

⁴Based on tests conducted by an independent institution.

Certification does not guarantee against failure or damage.

Dust and water resistance may be compromised by substantial impacts (dropping, crushing, etc.).

⁵At an ambient temperature of 25°C

⁶W53, W56 supports only in module receiver mode.

Canon



CXDI-810C Wireless
CXDI-710C Wireless
CXDI-410C Wireless

Canon's state of the art wireless detector line-up takes you to new heights of possibilities in digital radiography. Reduced weight, dust and waterproof, on-board memory and enhanced detector design are just a few of the clinically beneficial new features.

Ultralight AED* wireless detectors

Using superlight and strong carbon fibre construction techniques, Canon has achieved significant weight reduction, providing less physical strain and reassuringly providing detectors that are among the lightest currently available.

Despite their feather light characteristics, the carbon chassis and frame ensure high performance and high durability, tested for the rigours of demanding daily use.

Superb quality and reliability that you have come to expect from Canon.

● CXDI-710C Wireless	35.0 x 42.6 cm	2.3 kg
● CXDI-810C Wireless	27.4 x 35.0 cm	1.8 kg
● CXDI-410C Wireless	41.5 x 42.6 cm	2.8 kg

* Automatic Exposure Detection

Docking station

The new multi-function docking station combines the following capabilities in one compact desktop unit to help make your work and workflow even more convenient.

The Docking Station enables:

- Detector check-in
- Detector battery charging
- Image transfer



CXDI Control Software NE



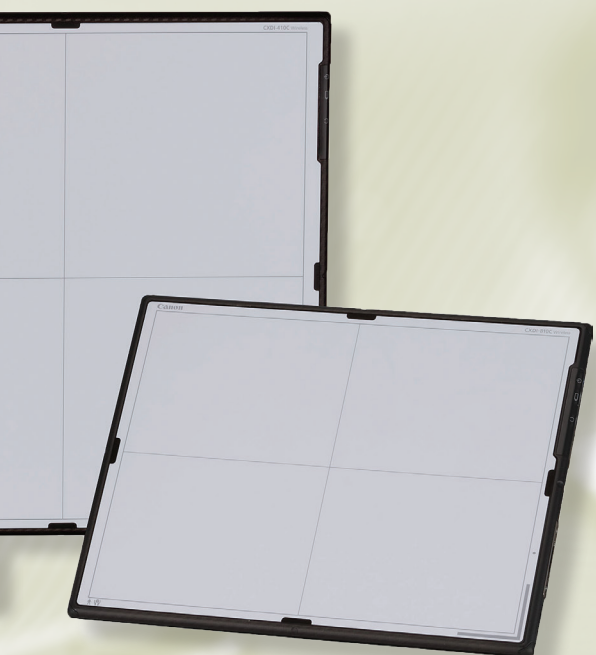
CXDI Control Software NE is made exclusively for use with Canon Digital Radiography systems. This imaging control and management software helps to optimise workflow and reduce the steps required to complete each examination quickly. The intuitive Graphical User Interface (GUI) can be used for all types of digital radiography modality and this commonality of

GUI across the entire detector range is a major advantage when it comes to speed of operator training, user confidence, convenience and familiarity. Canon CXDI-NE software configuration options ensure a GUI that is always right for you. Comprehensive image processing including 'Scatter Correction', 'Advanced Edge Enhancement' and 'One Shot Long Length' imaging options guarantee optimised image quality with the lowest possible dose; the industry standard DICOM 3.0 interface ensures multi-vendor and cross-platform connectivity in any situation.

Sleek new detector design

The sleek, tough and ergonomically sculpted new CXDI series wireless detector design includes the following features to enhance the user and patient experience:

- More comfortable to hold and effective to grip; concern over dropping can be greatly reduced due to the ultralight weight and ergonomic handgrips sculpted into the detector on all 4 sides.
- Easier and more pleasant to handle due to the selection of high quality composite materials, low weight and well-balanced design.
- Easier to position and more comfortable for patients and technologists due to a shaped cover, smooth rounded corners and more comfortable when positioning behind a patient.



Three tough detectors

The use of new composite materials has not only decreased the weight of each detector, but is also beneficial for strength and durability. The new Canon CXDI series wireless detectors can withstand a load of 310 kg; that's more than twice previous detectors and allows direct weight-bearing imaging with obese patients.

IP57 dust- and waterproof

Contact with fluids and dust is inevitable, particularly in emergency- and high-dependency care. Our IP57 protection against dust and liquid entering the FPD provides you with extra assurance in the product, while it is in use under challenging conditions, or when cleaning the product for safety.



On-board image storage

Designed to handle the unexpected, the new Canon CXDI series wireless detectors are even equipped with on-board image memory for those situations where you need the detector to be fully independent. These tough detectors are not only totally independent of any X-ray source you wish to work with, but now can even operate without reliance on any connected image archive. Up to 99 images may be stored and transferred to a workstation at your convenience.

Improved workflow using the 'ready' function

When using multiple detectors in one room, a specific detector can be selected not only from the DR modality workstation but also simply by pressing the 'Ready' button directly on the detector or on the optional Status Indicator.



CXDI-710C / CXDI-810C / CXDI-410C Wireless Specifications¹

Model name:	CXDI-710C Wireless	CXDI-810C Wireless	CXDI-410C Wireless
Purpose:	General Radiography		
Scintillator:	CsI (Cesium Iodide)		
Weight (incl. battery):	2.3 kg	1.8 kg	2.8 kg
Effective maging area:	35.0 x 42.6 cm	27.4 x 35.0 cm	41.5 x 42.6 cm
External dimensions:	38.4 x 46.0 x 1.57 cm	30.7 x 38.4 x 1.57 cm	46.0 x 46.0 x 1.57 cm
Image matrix size:	2800 x 3408 pixels	2192 x 2800 pixels	3320 x 3408 pixels
Pixel size:	125 µm		
Resolution:	4.0 lp/mm		
DQE:	Typical 65% (0 lp/mm)		
Grey scale:	A/D: 16bit		
Preview image time:	1 sec. ²		
Cycle Time:	7 sec. ²		
Dust- and waterproof:	IP57 ³		
Battery performance:	Standard Synchronisation mode 1000 images @ 7 sec. cycle, 108 images @ 100 sec. cycle.		
	Non-Generator Connection mode 1000 images @ 7 sec. cycle, 90 images @ 100 sec. cycle.		
Charging performance:	Detector charging in docking station: approx. 120 min. ⁴ In battery charger: approx. 150 min. ⁴		
Wireless channel/band:	2.4 GHz, 5 GHz (W52, W53, W56, W58) ⁵		

¹Specifications subject to change.

²Dependent on acquisition mode.

³Based on tests conducted by an independent institution.

Certification does not guarantee against failure or damage.

Dust and water resistance may be compromised by substantial impacts(dropping, crushing, etc.).

⁴At an ambient temperature of 25°C.

⁵W53, W56 supports only in module receiver mode.



Canon

DIGITAL RADIOGRAPHY

CXDI-Pro

Canon's new pro-range wireless flat panel detectors bring you digital radiography everywhere in the hospital. With its improved communication performance and easy system integration, it assists with simplifying x-rays in the department as well as on mobiles and operating theaters.



Fast

- Cycle time < 5 seconds
- Time for ready < 4 seconds
- Preview 1 second

Tough, Durable & Light weight

- From 2.1 kg
- Covers can be exchanged
- IP55 water & dust resistant

Ergonomic design

- Comfortable hold and grip with 4 positions
- Easier to position
- Less strain for operator
- Easy to clean smooth surface



Battery performance

- More than 9.5 hours in stand by mode
- Battery can easily be exchanged

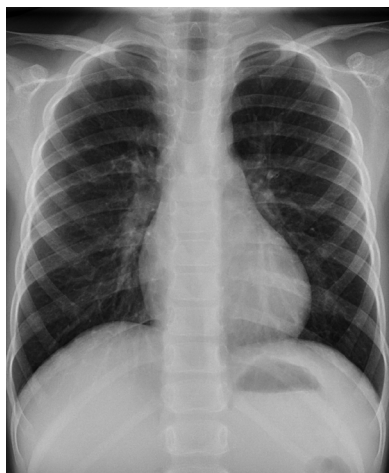


CXDI Control Software NE

- Optimized workflow
- Body parts and customer specific image processing
- Secure: encryption of data and DICOM compliance
- Optional features like scatter correction, advanced edge enhancement, etc.

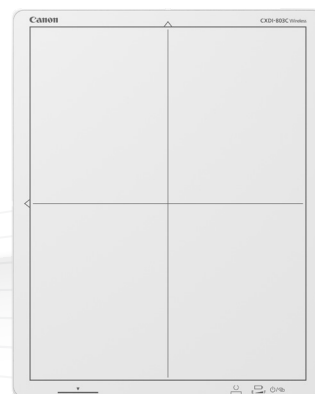
Excellent Image quality

- Improved signal to noise ratio



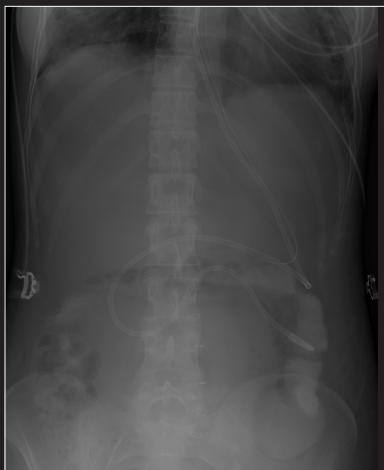
Unique 27 x 35 detector

- Small detector to Easily image limbs with two joints in one shot
- Easier positioning with small and moving children for one shot overview



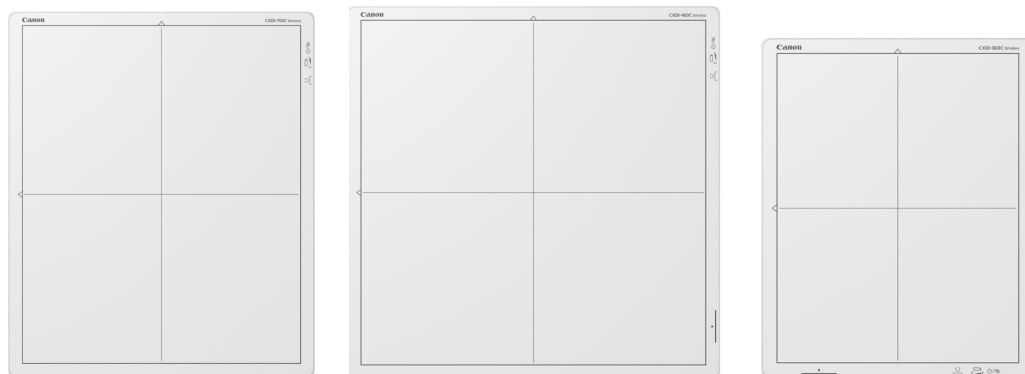
Scatter correction (optional)

- Excellent image contrast of any body region without a grid
- Reduce detector handling weight
- Eliminate grid misalignments and artefacts
- Dose reduction
- Consistent image quality



Before

After



CXDI-Pro Series Specifications¹

Model name:	CXDI-703C Wireless	CXDI-403C Wireless	CXDI-803C Wireless
Purpose:	General Radiography		
Scintillator:	CsI (Cesium Iodide)		
Weight (incl. battery):	2.9 kg	3.5 kg	2.1 kg
Effective imaging area:	35 x 43 cm	43 x 43 cm	27 x 35 cm
External dimensions:	38 x 46 cm	46 x 46 cm	31 x 38 cm
Image matrix size:	2496 x 3040 pixels	3040 x 3040 pixels	1952 x 2496 pixels
Pixel size:	140 µm		
Resolution:	3.5 lp/mm		
DQE:	Typical 65%(0 lp/mm) / 58%(0.5 lp/mm) ²		
Grey scale:	A/D: 16bit		
Preview image time:	1 sec. ³		
Cycle Time:	<5 sec. ³		
Dust- and waterproof:	IP55 ⁴		
Battery performance:	Standard Synchronisation mode Approx. 1500 images @ 7 sec. cycle, 140 images @ 100 sec. cycle. Non-Generator Connection mode Approx. 1500 images @ 7 sec. cycle, 140 images @ 100 sec. cycle.		
Charging performance:	Detector charging in detector stand: approx. 150 min. ⁵ In battery charger: approx. 150 min. ⁵		
Wireless channel/band:	2.4 GHz, 5 GHz (W52, W53, W56, W58) ⁶		



Detector stand



Battery Charger



Wiring Cable



Multi Box



Power Box



PC connection cable



Ready Indicator



Status Indicator



Battery Pack

¹Specifications subject to change.

²0 lp/mm is extrapolated value IEC62220-1-1 2015 (RQA5).

³Dependent on acquisition mode.

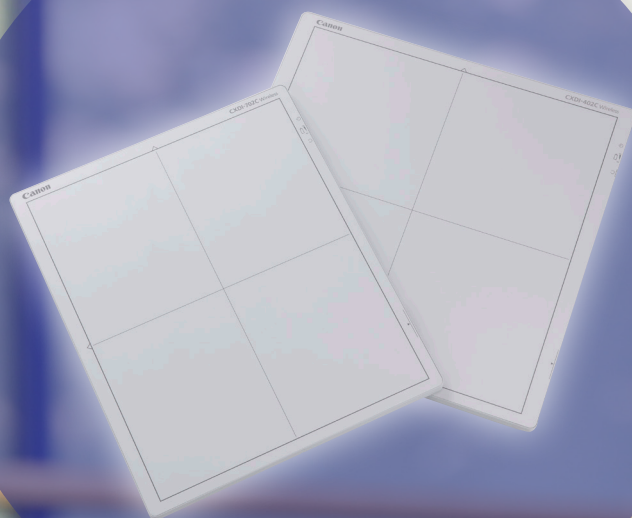
⁴Based on tests conducted by an independent institution.

Certification does not guarantee against failure or damage.

Dust and water resistance may be compromised by substantial impacts (dropping, crushing, etc.).

⁵At an ambient temperature of 25°C

⁶W53, W56 supports only in module receiver mode.



CXDI-702C Wireless CXDI-402C Wireless

Canon's new mid-range generation wireless systems bring you a new range of possibilities in digital radiography.

This new line reduces weight, is IP55 dust and waterproof, and has enhanced ergonomic detector design.

These are just a few of the new features that are clinically beneficial.

Light AED* wireless detectors

Through the use of ergonomic and rigid covers, Canon has engineered an additional weight-reduction compared to previous detector series, to improve operator comfort. Although the chassis and frame are lean, high performance and durability are ensured. Canon is synonymous with superb quality and reliability

- | | | |
|-----------------------|----------------|--------|
| ● CXDI-702C Wireless: | 35.0 x 42.6 cm | 3.1 kg |
| ● CXDI-402C Wireless: | 41.5 x 42.6 cm | 3.7 kg |

* Automatic Exposure Detection allows for image capture without generator connection.

Docking station

The new multi-function docking station combines the following capabilities in one compact desktop unit to help make your work and workflow even more convenient.

The Docking Station enables:

- Detector check in
- Detector battery charging
- Image transfer
- Safe detector storage



CXDI Control Software NE



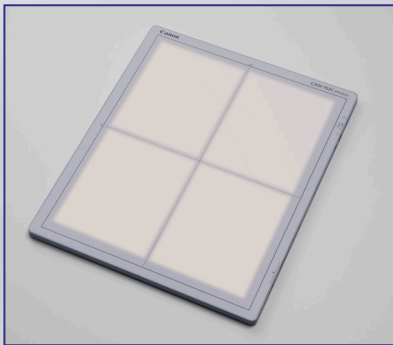
CXDI Control Software NE is made exclusively for use with Canon Digital Radiography systems. This imaging control and management software helps to optimize workflow and reduce the steps required to complete each examination quickly. The intuitive Graphical User Interface (GUI) can be used for all types of digital radiography modality and this commonality of

GUI across the entire detector range is a major advantage when it comes to speed of operator training, user confidence, convenience and familiarity. Canon CXDI-NE software configuration options ensure a GUI that is always right for you. Comprehensive image processing including 'Scatter Correction' and 'Advanced Edge Enhancement' imaging options guarantee optimized image quality with the lowest possible dose; the industry standard DICOM 3.0 interface ensures multi-vendor and cross-platform connectivity in any situation.

New detector design

The new sleek tough and ergonomically sculpted CXDI series wireless mid-range detector design includes the following features to enhance the user and patient experience:

- More comfortable hold and grip: concern over dropping can be reduced due to light weight and handgrips sculpted into the detector on all four sides.
- Easier and more pleasant to handle due to the selection of high quality materials.
- Easier to position and more comfortable for patients and technologists due to an ergonomically shaped cover.



Two tough detectors

The use of light weight materials in a special way has improved the weight of the new detectors as well as the strength and durability (The covers can be replaced in case of damage).

The new CXDI series can withstand a load of 310kg, which allows direct weight-bearing imaging with obese patients.



IP55 dust and waterproof

Contact with fluids and dust is inevitable, particularly in emergency- and high-dependency care. Our IP55 protection against dust and liquid entering the FPD provides you with extra assurance in the product, while it is in use under challenging conditions, or when cleaning the product for safety.



Last image hold

The last image is always on the detector, even when connection to the WIFI is suddenly interrupted.

This provides you with the confidence that no unnecessary dose is applied to the patient. Once the WIFI is restored the image is forwarded to the system.





CXDI-702C / CXDI-402C Wireless Specifications¹

Model name:	CXDI-702C Wireless	CXDI-402C Wireless
Purpose:	General Radiography	
Scintillator:	CsI (Cesium Iodide)	
Weight (incl. battery):	3.1 kg	3.7 kg
Effective imaging area:	35.0 x 42.6 cm	41.5 x 42.6 cm
External dimensions:	38.4 x 46.0 x 1.57 cm	46.0 x 46.0 x 1.57 cm
Image matrix size:	2800 x 3408 pixels	3320 x 3408 pixels
Pixel size:	125 µm	
Resolution:	4.0 lp/mm	
DQE:	Typical 65% (0 lp/mm)	
Gray scale:	A/D : 16bit	
Preview image time:	1 sec. ²	
Cycle Time:	7 sec. ²	
Dust- and waterproof:	IP55 ³	
Battery performance:	Standard synchronization mode 1000 images @ 7 sec. cycle, 108 images @ 100 sec. cycle.	
	Non-Generator Connection mode 1000 images @ 7 sec. cycle, 90 images @ 100 sec. cycle.	
Charging performance:	Detector charging in docking station: approx. 120 min. ⁴ In battery charger approx. 150 min. ⁴	
Wireless channel/band:	2.4 GHz, 5 GHz (W52, W53, W56, W58) ⁵	

¹Specifications subject to change.

²Dependent on acquisition mode.

³Based on tests conducted by an independent institution.
Certification does not guarantee against failure or damage.

Dust and water resistance may be compromised by
substantial impacts(dropping, crushing, etc.).

⁴At an ambient temperature of 25°C.

⁵W53, W56 supports only in module receiver mode.



Canon

DIGITAL RADIOGRAPHY

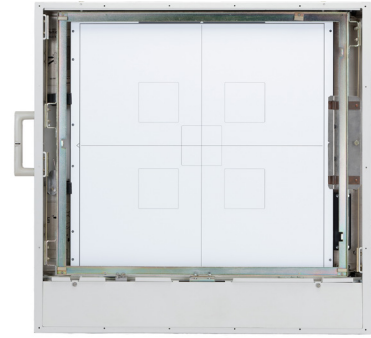
CXDI-Elite

CXDI-420C Fixed

The Digital Radiography System with improved sensitivity and resolution allows for quick upgrade of your existing radiography equipment and fits easily into most universal Bucky systems. CXDI-420C Fixed is also compatible with Built-in AEC assist and Intelligent NR.

Easy streamlined upgrades

- Fits easily into standard 46x46 cm Bucky
- Retrofitted into a range of radiography devices, such as upright stands and tables.

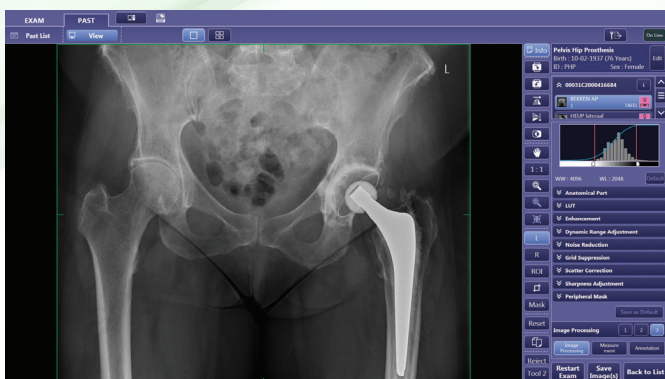
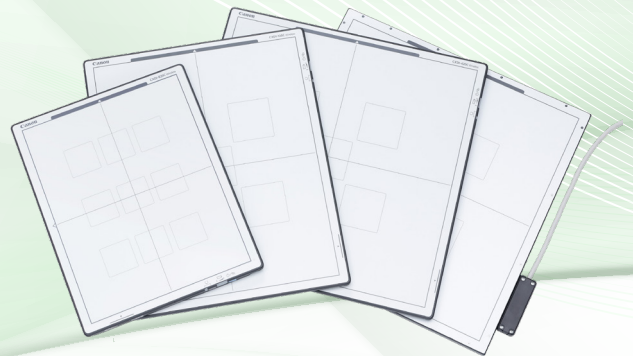


Excellent DQE and MTF

- DQE Typical 74% (0 lp/mm)
- MTF Typical larger than 45% (2 lp/mm)

Detector sharing (sharable across systems)

- Expanded with additional Canon FPD's like our premium wireless FPD
- Running with the same CXDI Control Software NE platform.



CXDI Control Software NE

- Optimized workflow
- Body parts and customer specific image processing
- Secure
- Optional features like scatter correction, advanced edge enhancement, Intelligent NR, Built-in AEC Assistance, etc.

Intelligent NR

DEEP LEARNING

- Intelligent noise reduction
- Improved image quality
- Possible dose benefit
- Assist diagnosis



Original image



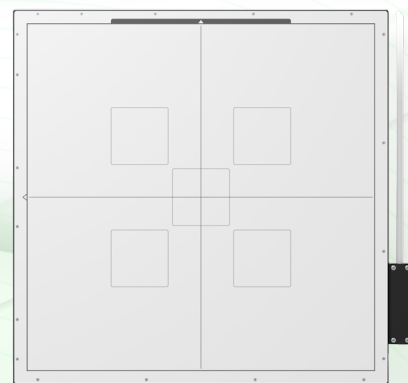
NR Conventional



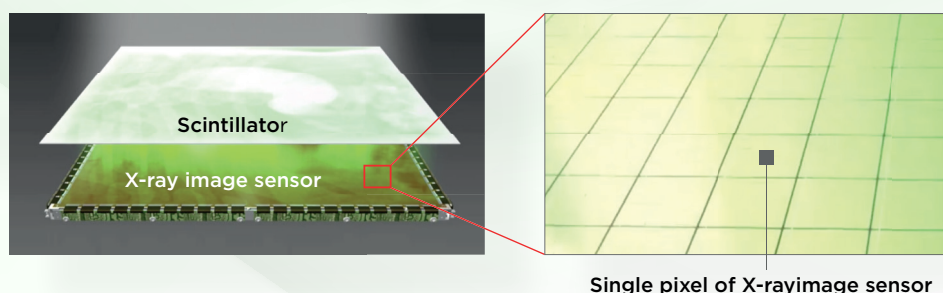
Intelligent NR
Deep Learning

Built-in AEC Assistance

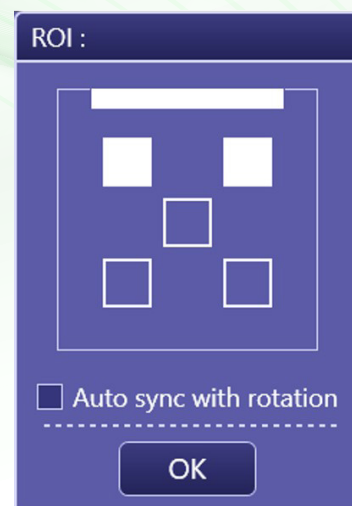
- Optimize X-ray dose without external AEC sensor
- Ideal for free positioning
- Auto ROI selection by rotation
- Different ROI patterns can be selected

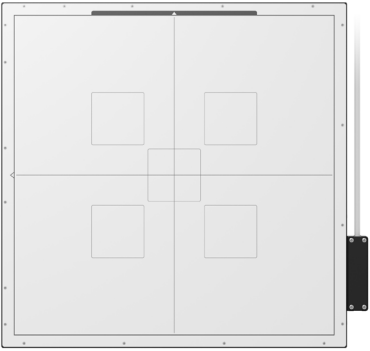


X-ray image sensor



Single pixel of X-ray image sensor





CXDI-420C Fixed Specifications¹

Model name:	CXDI-420C Fixed
Purpose:	General Radiography
Scintillator:	CsI (Cesium Iodide)
Weight (incl. battery):	6.1 kg (excl. cable)
Effective imaging area:	43 x 43 cm
External dimensions:	46 x 46 cm
Image matrix size:	3408 x 3408 pixels
Pixel size:	125 µm
Resolution:	4.0 lp/mm
DQE:	Typical 74% (0 lp/mm) / 67% (0.5 lp/mm) ²
Grey scale:	A/D: 16bit
Preview image time:	1 sec. ³
Cycle Time:	4 sec. ³



Wiring Cable



Multi Box



Power Box



Ready Indicator

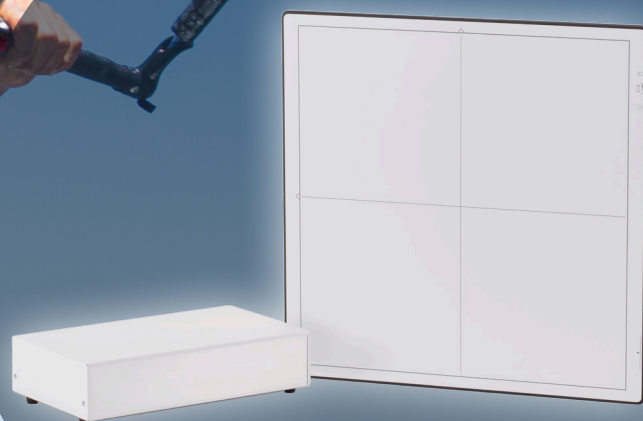


Status Indicator

¹Specifications subject to change.
²0 lp/mm is extrapolated value
IEC62220-1-1 2015 (RQA5).
³Dependent on acquisition mode.

A man with long blonde hair is kitesurfing on a blue wave. He is wearing a white t-shirt, dark shorts, and a black harness. He is holding the control bar of his kite, which is suspended by lines. The background is a clear blue sky and the ocean.

Canon

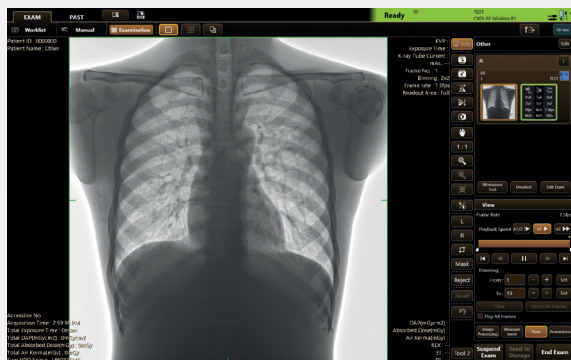


CXDI-RF WIRELESS B1 System

Canon's new multifunctional dynamic and static portable Flat Panel Detector with RF Controller software offers you a high level of flexibility in your Digital Radiography room.

- Light weight detector for multi-purpose X-ray rooms
- Static and Dynamic imaging without compromise
- Optional DSA and Tomosynthesis

CXDI Controller RF Software¹



CXDI Controller RF software is made exclusively for use with Canon Digital Radiography systems. This imaging control and management software helps to optimize workflow and reduce the steps required to complete each examination quickly. The intuitive Graphical User Interface (GUI) can be used for all types of digital radiography modality and this commonality of GUI across the entire detector range is a major advantage when it comes to speed of operator training, user confidence, convenience and familiarity. Canon CXDI Controller RF software configuration options ensure a GUI that is always right for you. Comprehensive image processing

including 'Scatter Correction', 'Advanced Edge Enhancement' (AEE)², 'One Shot Long Length'³, Digital Subtraction Angiography (DSA), Tomosynthesis imaging options guarantee optimized image quality with the lowest possible dose; the industry standard DICOM 3.0 interface ensures multi-vendor and cross-platform connectivity in any situation.

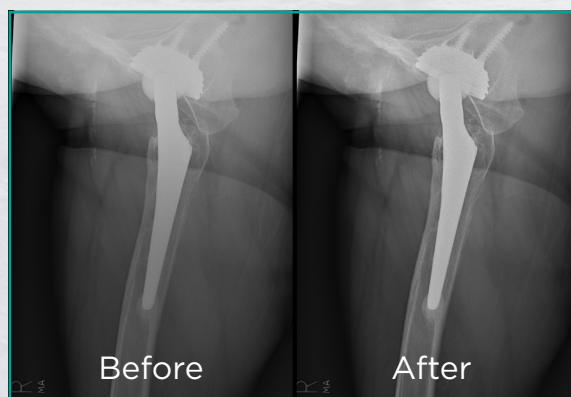
Tomosynthesis

Performing high-resolution limited-angle tomography at radiation dose levels comparable with projectional radiography.



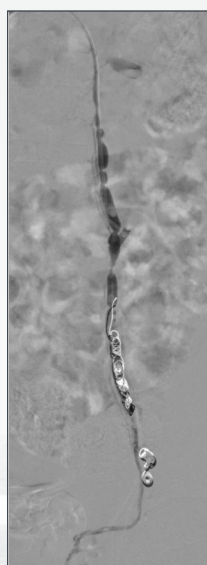
Scatter Correction for Static and Dynamic Imaging

Canon's Scatter Correction reduces the effect of scattered radiation for non-grid examinations, allowing you to obtain images with outstanding contrast.



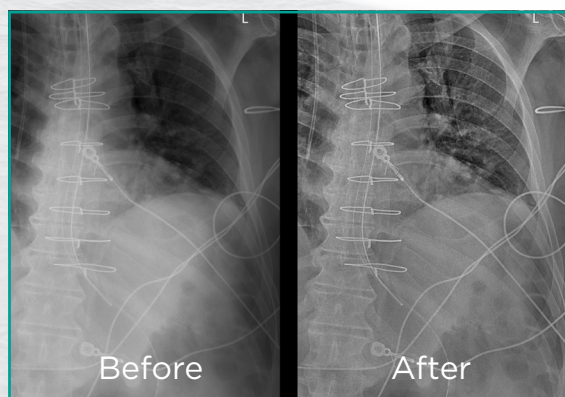
DSA

Digital subtraction angiography (DSA) is a fluoroscopy technique used in interventional radiology to clearly visualize blood vessels by eliminating (subtracting) radiopaque structures, such as bones or dense soft tissue.



Advanced Edge Enhancement

Improved visualization of tubes, lines and bone details. The software has three different image processing algorithms (small structures, bone detail and catheter setting).



All-in-one Dynamic and Static FPD

CXDI-RF WIRELESS B1 offers clients true Dynamic and Static Imaging in one detector providing maximum flexibility in a clinical setting.



Portable

True portability outside the Bucky thanks to the low weight, magnetic connector, wireless functionality and ergonomic design.

Ergonomic detector design

2 sculpted hand grips for a comfortable and effective grip. Easier and more comfortable to position behind a patient due to the shaped cover and smooth rounded corners.

Image quality at low dose

High quality dynamic and static imaging at low dose.



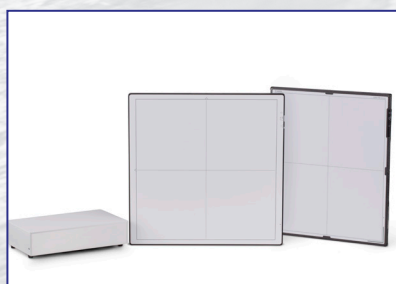
IP57 dust- and waterproof

Contact with fluids is inevitable, particularly in emergency- and high-dependency care. Our IP57 protection against liquid and dust entering the FPD provides you with extra assurance in the product, while it is in use under challenging conditions, or when cleaning the product for safety.



Low weight

Just 3.5kg for a dynamic and static FPD making this the ideal detector to be used outside the Bucky without strain for the users.



Detector sharing

Sharable across Multiple compatible systems. Additional static detectors can be added to the system for increased functionality.



CXDI-RF WIRELESS B1 System Specifications⁴

Model name:	CXDI-RF Wireless B1 ⁵
Scintillator:	CsI
Effective imaging area:	42 x 43 cm
Weight (incl. battery):	3.5 kg
External dimensions:	460 x 460 x 15.5 mm
Pixel pitch:	160 µm
DQE (0.5 lp/mm):	Typical 60%
MTF (2 lp/mm):	Typical 38%
IPX:	IP57 ⁶
Robustness:	Load:
	310 kg @ entire
	100 kg @ Ø 40 mm
	Drop height: 100 cm
I/F:	Wired: GigabitEther
	Wireless: IEEE802.11a/b/g/n
Frame rate Wired ⁷ :	5 fps @ 1x1
	15 fps @ 2x2
	30 fps @ 3x3 (9"x9")
Continuous X-Ray:	Supported

¹CXDI Controller RF Software version 3.00 onwards for support of CXDI-RF Wireless B1, CXDI-702 series and CXDI-710 series.

²Only for static imaging.

³Only for static imaging with CXDI-710CW, CXDI-410CW.

⁴Specifications subject to change.

⁵CXDI-RF Wireless B1 system consists of various components.

⁶Based on tests conducted by an independent institution. Certification does not guarantee against failure or damage.

Dust- and water resistance may be compromised by substantial impacts(dropping, crushing, etc.).

⁷Wireless Dynamic imaging implemented later.

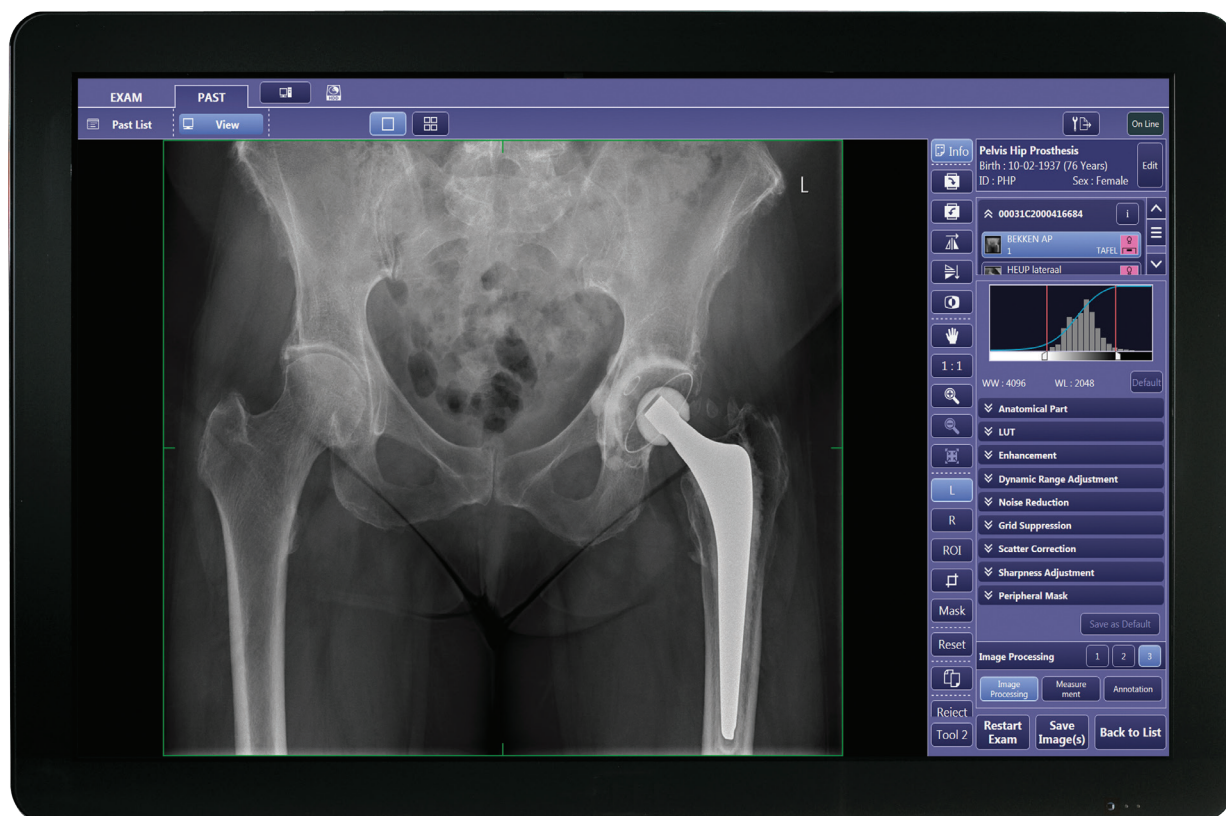


CXDI Control Software NE CXDI Control Software RF

Secure, intuitive, efficient workflow
and comprehensive image processing
for static and dynamic imaging

CXDI Control Software NE/RF

CXDI Control Software NE/RF is made exclusively for use with Canon Digital Radiography systems. This software helps to optimise workflow and reduce the steps needed to complete exams. It provides quick image confirmation and timely network distribution, supports multiple study acquisition, can easily be tailored to individual clinical preferences and helps provide the delivery of consistent, high-resolution images with the Canon CXDI Digital Radiography systems. In addition, this proprietary software solution is Integrating the Healthcare Enterprise (IHE) compliant and has features that can help practitioners with their HIPAA compliance efforts.



Main features:

- Real-time viewing of high quality images
- Large high-resolution monitor for comfortable viewing
- Optimised workflow with less operation steps
- Interactive GUI for intuitive operation
- Supports various workflows to match local requirements
- Single and Prepacked Protocols
- Emergency study capability
- Suspend Exam
- Reject Analysis
- Automatic forwarding rejected images to a designated analysis workstation
- Automatic Image stitching (static FPD)

Optimises your workflow

Protocol planning with the right sequence of the positions in the study.

Instant display of the image taken in high resolution within one second. Comfortable viewing on large screen with overview and less operation steps.

Designed to enhance image quality

Provides wide range of the algorithm and dynamic formatting before saving. Enables significant dose reductions through optimising image processing parameters.

Adaptive to your local standards

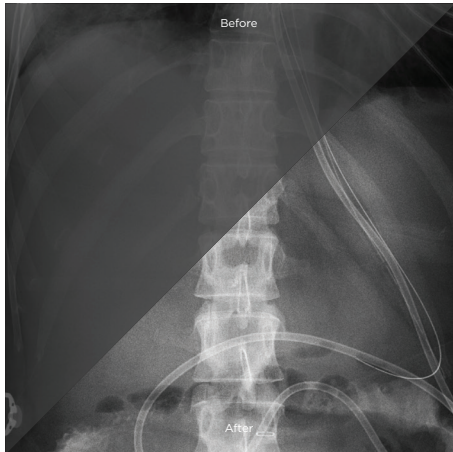
Is giving you the tailored preset that you require, is adaptable to any local language needs, preference or taste of imaging, accommodating standard or unique protocols such as trauma protocol and protocols for paediatric imaging.

Flexible and Secure

The Canon NE software is outstanding in communication with X-ray generator and brilliant in the non-synchronised mode.

Intuitive interface

Canon's intuitive 'CXDI-NE/RF' Graphical User Interface (GUI) can be used for all types of digital radiography modality and this commonality of GUI across the entire DR product range is a major advantage when it comes to speed of operator training, user confidence, convenience and familiarity. Canon CXDI-NE/RF software configuration options ensure a GUI that is always right for you. Comprehensive image processing including 'Scatter Correction' and 'One Shot Long-Length' imaging options guarantee optimised image quality with the lowest possible dose; the industry standard DICOM 3.0 interface ensures multi-vendor and cross-platform connectivity in any situation.



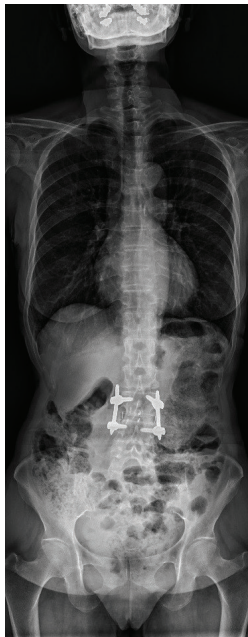
Scatter Correction (optional)

Canon's Scatter Correction reduces the effect of scattered radiation for non-grid bedside examinations, allowing you to obtain images with outstanding contrast while avoiding the grid handling and improve your workflow

Benefits:

- Significantly lower X-ray dose compared to imaging with a grid*
- Superior image contrast without the need for a grid
- Improved workflow: no need to carry, fit, position and remove a grid
- Enhanced efficiency: no repeat exposures due to grid misalignments and resulting artefacts
- Potential to improve patient comfort in bed examinations as the imaging receptor is thinner without a grid fitted

*Confirmed result after testing Canon Scatter Correction at Linköping University Hospital, Sweden

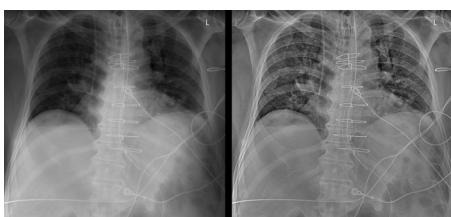


One Shot Long-Length (optional)

One Shot Long-Length exams enhance efficiency compared to conventional stitch exams; shorter examination time, lower risk on patient movement, reduced dose and increased image quality.

Expected benefits:

- Patient positioning stand with motorised height adjustment
- Fixed installation or mobile for convenient relocation
- Large, ergonomic grip rails for confident patient positioning
- Optional grid
- Ability to use 3 existing detectors for cost-effective one shot Long-Length imaging
- Versatile configuration; use either 3 x CXDI-710CW or 3 x CXDI-410CW wireless detectors



Advanced Edge Enhancement (optional for static imaging)

Improved visualization of tubes, lines and bone details. The software has three different image processing algorithms (small structures, bone detail and catheter setting):

- Automatic copy of the image acquired, allows various views on the same acquisition

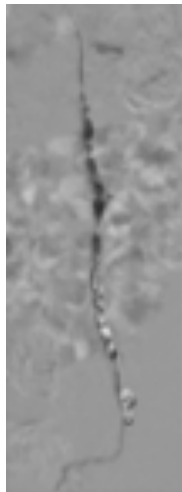
Additional functionality CXDI Control Software RF



Tomosynthesis (optional for CXDI-RF software)

Performing high-resolution limited-angle tomography at radiation dose levels comparable with traditional projection radiography:

- For imaging of lung nodules or lung tissue that is partly obscured by ribs, heart or other structures
- For arthritic changes in extremities
- Extreme/ complex fracture imaging
- For localization Brachytherapy seeds



DSA (optional for CXDI-RF software)

Digital subtraction angiography (DSA) is a fluoroscopy technique used in interventional radiology to clearly visualize blood vessels in a bony or dense soft tissue environment:

- Basic functionality like road mapping are supporting DSA technology on your digital radiography modality.



Scatter Correction

Excellent image contrast without a grid

High contrast images without using a grid

Canon's Scatter Correction reduces the effect of scattered radiation for non-grid bedside examinations, allowing you to obtain images with outstanding contrast while avoiding the grid handling and improving your workflow.

Where a grid physically reduces scatter and thereby increases the image contrast, the software mimics this process virtually. The software works by creating a scatter model, which is subsequently subtracted from the image. The result is an image with reduced scatter and increased contrast.

Benefit from Canon's decades of imaging expertise

Use a grid or select Scatter Correction; you are always in control and the choice is yours as the situation demands. Canon digital radiography provides the versatility, and years of imaging expertise provides the following benefits:

- Significantly lower X-ray dose compared to imaging with a grid¹
- Superior image contrast without the need for a grid
- Improved workflow: no need to carry, fit, position and remove a grid
- Enhanced efficiency: no repeat exposures due to grid misalignments and resulting artefacts
- Potential to improve patient comfort in bed examinations as the imaging receptor is thinner without a grid fitted

Technically the scatter correction will be applicable to all protocols, but stringent reviews on clinical applicability are required.



Before



After



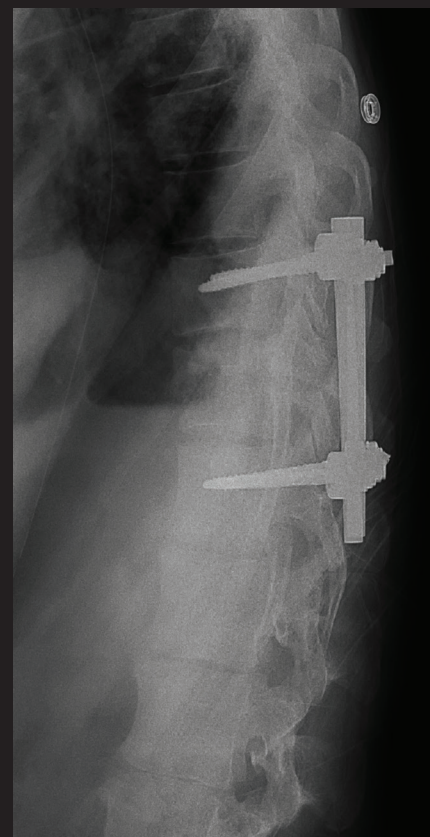
Before



After



Before



After

¹ confirmed result after testing Canon Scatter Correction at Linköping University Hospital, Sweden

Experience ultralight digital radiography; faster workflow with reduced stress and reduced radiation dose

-60%

Significantly reduce radiation dose by up to 60%. Don't just take our word for it. We asked Linköping University Hospital, Sweden, to tell us just how important dose reduction using Canon Scatter Correction is, and how much bedside radiation dose could be eliminated.

"Many of our patients are X-rayed on a daily basis over a period of several weeks and in these cases the ability to halve the radiation dose makes a big difference," commented Mr Kraff, radiographer at Linköping University Hospital, Sweden. "Previously, when a grid was used at the hospital, the standard PA Chest exposure was 141 kV and 1.25 mAs. Now, with Canon's Scatter Correction, the mAs value has been cut to 0.5 mAs - a 60% reduction."

Since introducing Canon's Scatter Correction software at Linköping University Hospital, this innovative grid-free imaging has become the default technique during bedside radiography.



Reduce detector handling weight by up to 30%; no grid necessary! ²

Scatter Correction software improves workflow by reducing the number of process steps required whilst also reducing the physical manual handling burden on radiographic personnel. Although the latest Canon detectors are some of the lightest available, fitting a grid still adds approximately 1 kg more. Scatter Correction instantly eliminates this unwanted additional weight.

²Using the ultralight Canon CXDI-710C Wireless detector fitted with an anti-scatter grid totals 3.3 kg compared to 2.3 kg when using Scatter Correction - that's a 30% weight reduction. Using the popular CXDI-701C Wireless detector with a grid totals 4.3 kg compared to 3.3 kg with Scatter Correction - a 23% weight reduction.



Eliminate grid misalignments and artefacts; no more retakes!

Scatter Correction users experience the convenience of radiography without a grid and without grid alignment challenges that can lead to repeat patient exposure.

"It makes our life so much easier."
(Harald Kraff, radiographer, Linköping University Hospital, Sweden)



Allows more time for patient care

Examination time can be reduced when using Scatter Correction as the imaging workflow is freed from grid handling, accurate grid, tube alignment and possible retakes. This streamlined workflow allows more examinations to be performed within the same timeframe and makes more time available to spend with each patient.



Consistent image quality

Reducing X-ray dose by eliminating the use of a grid comes with a challenge: can you be sure that optimum image quality is being consistently achieved? Thanks to Canon's huge experience in imaging and digital image processing across a variety of professions and industries, you can be sure that the very best image quality is presented time after time.

"The image quality is very similar to that performed with a grid. When we perform these examinations we are usually looking for major changes in the lungs, and in this respect, Scatter Correction works just as effectively."
(Maria Lindblom, radiologist, Linköping University Hospital)



Image any body region without a grid

The latest release of Canon's Scatter Correction software allows the freedom to image any body region without the encumbrance of a grid.

Scatter Correction reduces radiation dose and offers better ergonomics



Lower radiation doses, improved ergonomics for staff and improved comfort for patient. After almost 300 X-ray examinations, radiologists and radiology personnel at Linköping University Hospital have only words of praise for Canon's new grid-free 'Scatter Correction' imaging software.

"Halving the radiation dose to the patient is a significant achievement" says radiology staff member Harald Kraff.

Although hospital radiology personnel in Linköping have only been evaluating Canon's Scatter Correction imaging software for a few months, it is as if they have never known any other method - so naturally have they adapted to its use. They especially appreciate no longer having to carry the extra weight of an X-ray grid with them when performing mobile examinations. According to radiologist Maria Lindblom, the software solution is now used for virtually all chest X-ray examinations where the patient is bedridden.

"It has become the norm to use Scatter Correction for this type of examination and it took no time at all to get used to the imaging process" she said.

Linköping University Hospital is the first in the country to test and evaluate Canon's grid-free Scatter Correction software which is now commercially available to all Canon DR users. So far, the staff concerned at the hospital have had no criticisms whatsoever. On the contrary, the new technology has made their job easier and it has been possible to reduce the radiation by 60 percent.

"The image quality is very similar to that performed with a grid. When we perform these examinations we are usually looking for major changes in the lungs and in this respect Scatter Correction works just as effectively."

The Scatter Correction software is currently in use on 3 'Movix' mobile X-ray units equipped with Canon's CXDI-NE imaging

software platform and CXDI wireless portable AED-type DR detectors.

Mobile X-ray imaging is typically required when a patient is too ill to be brought to the imaging department and so the examination must take place on the hospital ward. Thanks to 'Scatter Correction' the task of positioning the DR detector behind or under the patient in their bed has been made easier, as the detector is both lighter and thinner without the need for a grid.

"When we use an X-ray grid we need to align the X-ray source at exactly the right angle and position over the grid to avoid grid artefacts. A grid is sensitive to inaccurate positioning which can lead to a repeat exposure if these factors are not optimised. The scatter correction software is not demanding in this way and does not suffer from these grid effects. It makes our life so much easier" explained radiology team member Harald Kraff

As the detector has to be placed under the bedridden patient, not having to use the grid is also an advantage because it is quite heavy. Given that 15 examinations of this type are carried out every day at Linköping University Hospital, good ergonomics is important for the staff. Every little detail which can make each aspect of their work easier reduces the physical burden placed on the staff.

"Although lightweight, the detector still weighs just over 3 kilograms but having to use a grid adds another 1 kilogram" Mr Kraff added.

However, the biggest advantage remains the significantly lower patient radiation dose required. Previously, when a grid was used at the hospital, the standard PA Chest exposure was 141 kV and 1.25 mAs. Now, with Canon's Scatter Correction, the mAs value has been cut to 0.5 mAs - a 60% reduction.

Despite taking precautions, radiology personnel are likely to be at a higher risk of being exposed to some radiation when they used mobile equipment which means that any possibility to reduce radiation dose is to be welcomed. As the examination is carried out on a hospital ward where other patients are inevitably in close proximity in their beds, it is not just the patient to be examined that is exposed to radiation; other patients nearby are also at risk of some exposure.

"Many of our patients are X-rayed on a daily basis over a period of several weeks and in these cases the ability to half the radiation dose makes a big difference" commented Mr Kraff. The latest release of Canon's Scatter Correction software not only allows chest imaging but also all other body regions to be imaged without the burden of using a grid and paves the way for low dose grid-free imaging to become standard practice, particularly in mobile X-ray imaging.

"The image quality is very similar to that with the older technology," said radiologist Göran Stenport



abucky5

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**Canon
DR**

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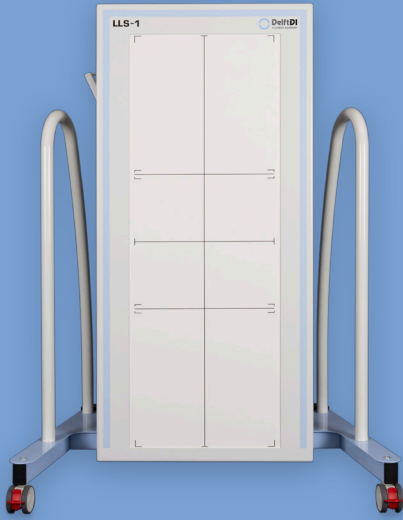
LLS-1

Enhanced efficiency for Long-Length radiographic examinations

Features One Shot Long-Length imaging stand

- Patient positioning stand with motorised height adjustment
- Mobile stand with wall docking for convenient relocation
- Large, ergonomic grip rails for confident patient positioning
- Removable grid for pediatric use
- Ability to use existing (3x CXDI-710CW or 3x CXDI-410CW) detectors for cost-effective One Shot Long-Length imaging
- Multiroom possibility. Use each available Canon workstation with LLS-1

Enhanced efficiency for



DelftDI LLS-1 Imaging; no need for a dedicated Long-Length detector or specialised X-ray equipment

The most common applications for long-length DR imaging are for whole spine and leg radiography. Up till now this was only possible using a specially configured X-ray system with image stitching capability using multi-exposure Digital Radiography (DR), which required three separate tube movements and exposures. As patients for this type of examination are often children, the ultimate solution would be for a single, very short exposure to reduce the possibility of motion artefacts. Now DelftDI brings you single shot Long-Length DR imaging without the need for a dedicated long-length detector, and using wireless detectors that can be used more efficiently in other radiographic applications when not be used for Long-Length imaging.

- One short exposure reduces the possibility of movement artefacts
- Shorter transit time and more efficient use of an X-ray room
- Increased patient safety; ergonomic grip rails and shorter time needed to remain position.
- No need for special image stitching X-ray equipment; perform Long-Length imaging in any room with Canon CXDI Control Software NE

Accurate automatic stitching

Accurate stitching automatically performed by the Canon CXDI Control Software NE ensures that just a single exposure is all it takes. There is no need to manually paste and position images, they are automatically aligned and joined. Furthermore the densities of adjacent images are smoothed to provide a uniform image appearance.

Reduced chance of retakes

As the patient only needs to remain still in the same position for a few seconds, there is less chance of movement artefacts and positioning error. Therefore the amount of retakes will be significantly reduced and the work flow efficiency will be optimized.



your Long-Length examinations



Faster Long-Length studies

Set-up can be quickly performed without the patient in the room. Simply load the wireless portable detectors into the support stand and select the pre-programmed Long-Length protocol on the modality workstation. That's all there is to it. Now the patient can be invited into the room for positioning. After positioning the X-ray tube and verifying the patients' position, the short single exposure can be made.

It's done! The patient can relax immediately and the resulting image is verified at the Canon CXDI Control Software NE workstation. Fast, efficient, accurate and convenient.

Maintain work flow efficiency from your DR system

Now Long-Length imaging will not decrease availability of an X-ray room. With DelftDI One Shot Long-Length imaging, patient transit time is faster with less waiting time and little or no post-exposure image manipulation required.

A cost-effective Long-Length DR solution

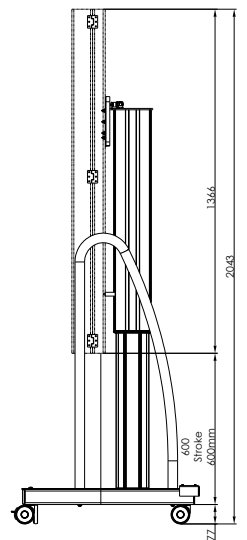
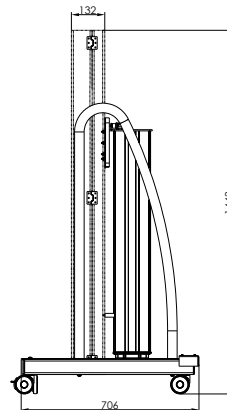
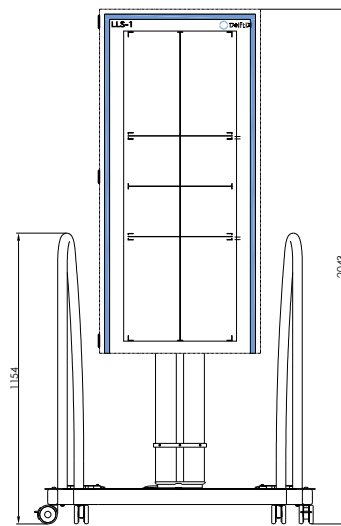
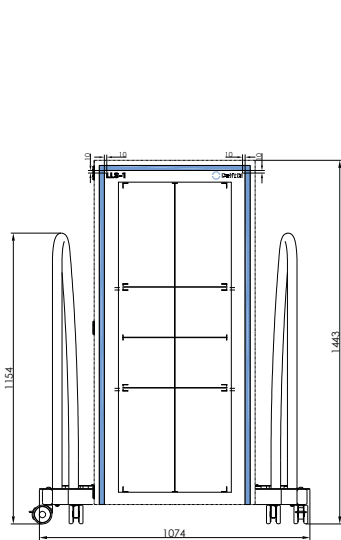
Using two or three identical Canon wireless DR detectors ensures detector usage that is maximised and shared across multiple applications. So it's not dedicated solely to Long-Length imaging with less frequent and less efficient utilisation.

When one or more DR systems with Canon software are already in place, all that is needed is to add the One Shot Long-Length Support Stand.

Choosing versatile DR solutions with Canon software ensures to quickly adopt the latest advances in DR and improve efficiency with a lower investment.

Patient safety and comfort:

DelftDI One Shot Long-Length imaging benefits patients by delivering a lower radiation dose when compared to multiple exposure image stitching and helps to provide an enhanced patient experience by virtue of a reduced exposure and examination time.



Advanced Edge Enhancement

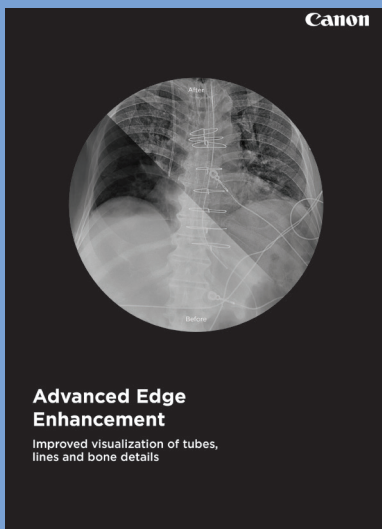
Improved interpretation confidence and radiologist reading efficiency

A Full Spine / Long Leg radiograph may be properly rendered and displayed with excellent overall diagnostic quality, yet it may still be challenging to visualize bone edges in underpenetrated regions.

In order to preserve global contrast and brightness for the overall image, gray levels may be quantized in the underpenetrated regions, which will cause some degree of detail contrast loss.

Canon's "Advanced Edge Enhancement" image processing is designed to enhance the visualization of bone details.

Besides the original diagnostic image, additional companion views can be added for a specific diagnostic or clinical purpose.



For more information, see our
Advanced Edge Enhancement brochure.



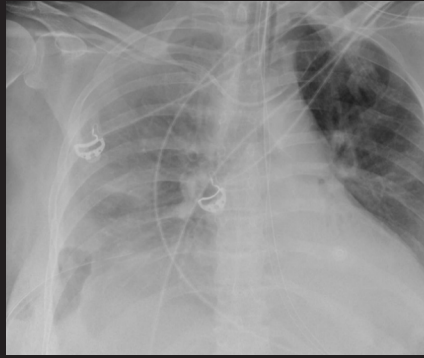
Advanced Edge Enhancement

Improved visualization of tubes, catheters and bone details

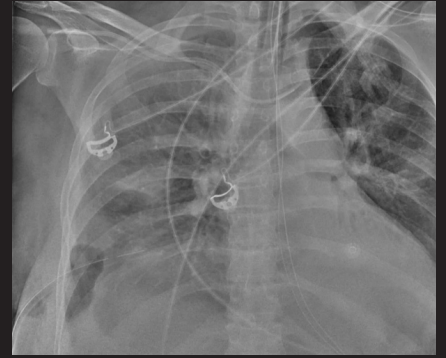
Three different types of Advanced Edge Enhancement are available

Catheter:

- This type is to enhance the display of catheters, soft tissues and bone tissues. Select this option when you want to make catheters more visible in mainly adults' chest or abdomen, or when you would like more visibility of soft tissue or bone tissues such as cervical spine, extremities and pelvis.



Before



After

Small Structure:

- This type is to enhance the display of small structures in the body. Select this option when you want to make catheters used mainly for children or infants more visible.



Before



After

Bone:

- This type is to enhance the edge of bone tissues. Select this option when you want to make bone tissues in full spinal images or full leg images, mainly acquired with long-length imaging, more visible.



Before



After

Improved interpretation confidence and radiologist reading efficiency

A portable chest radiograph may be properly rendered and displayed with excellent overall diagnostic quality, yet it may still be challenging to localize tube and line tips in underpenetrated regions, such as in the mediastinum and sub-diaphragm.

In order to preserve global contrast and brightness for the overall image, gray levels may be quantized in the underpenetrated regions, which will cause some degree of detail contrast loss in the mediastinum.

Canon's "Advanced Edge Enhancement" image processing is designed to enhance the visualization of tubes, catheters and bone details. Besides the original diagnostic image, additional companion views can be added for a specific diagnostic or clinical purpose. Advanced Edge Enhancement filter type and effect can be pre-defined in each protocol.

Sharper images and lower radiation dose with Canon's new software is reality. A software filter enhances the original image and catheters with anatomic structures. The result is that the medical information appears more clearly on the screen.



Linköping University hospital, Sweden

Linköping University hospital uses Canon's latest software, Advanced Edge Enhancement, with great success. Especially when treating bedridden patients.

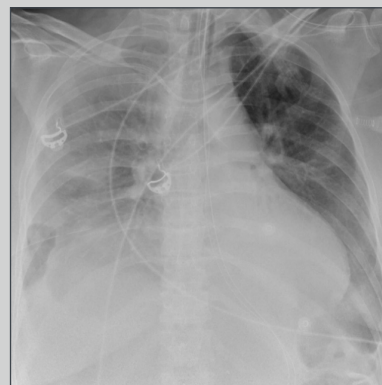
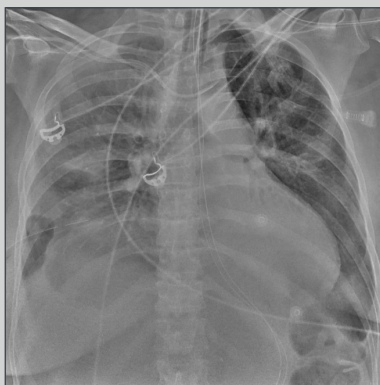
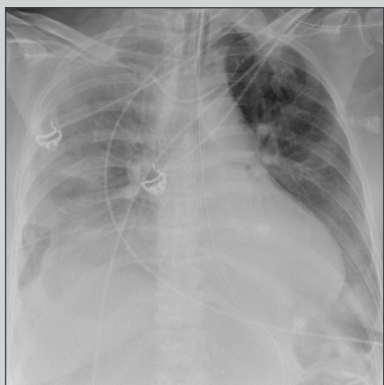
The Canon AEE software has given further improvements. At the moment it is usually enough to take a single image to ensure that the quality is sufficient. It feels especially important when working with premature babies, both in view of the radiation dose and because we want to "disturb" as little as possible, says radiologist Susann Skoog.

A central venous catheter, which is used to deliver drugs and take samples, can sometimes be difficult to discern on an X-ray image. Especially if the patient is very large and has several tubes in the body. Previously, when there was uncertainty after the investigation, it happened that the X-ray nurses had to take additional images to be on the safe side. We can usually avoid that now. Instead, this procedure can even be automated with Multiple Image Processing activated in the Protocol. Advanced Edge Enhancement enhances contrasts and catheters appear more clearly, says Susann Skoog.



The new Canon software includes a filter placed over the original image, which intensifies the sharpness. Foreign objects in the body are thus clearly visible on the X-ray image. When it comes to bed patients and young children, it can be difficult to distinguish the catheters properly. Especially if there are several tubes in the same area, says Susann Skoog. The University Hospital in Linköping is often at the forefront. Among other things, the hospital was the first to test and evaluate imaging without a physical grid, in 2016. At the time, the Scatter Correction software was installed in three of the mobile Movix units located in the X-ray department. According to the employees, the benefits were many, both in terms of staff ergonomics and because the radiation dose could be drastically reduced without the use of a grid.

Above all, the lung examinations on bed patients on the wards were facilitated easier.



The software (Advanced Edge Enhancement) has three different image processing algorithms (Small structure, Bone and Catheter)



Examples of a pediatric lung original and with (Advanced Edge Enhancement)

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231	Калининград (4012)72-03-81	Омск (3812)21-46-40	Сыктывкар (8212)25-95-17
Ангарск (3955)60-70-56	Калуга (4842)92-23-67	Орел (4862)44-53-42	Тамбов (4752)50-40-97
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Астрахань (8512)99-46-04	Киров (8332)68-02-04	Пенза (8412)22-31-16	Тольятти (8482)63-91-07
Барнаул (3852)73-04-60	Коломна (4966)23-41-49	Петрозаводск (8142)55-98-37	Томск (3822)98-41-53
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