

# DX-G

## NEXT-GENERATION CR SYSTEM

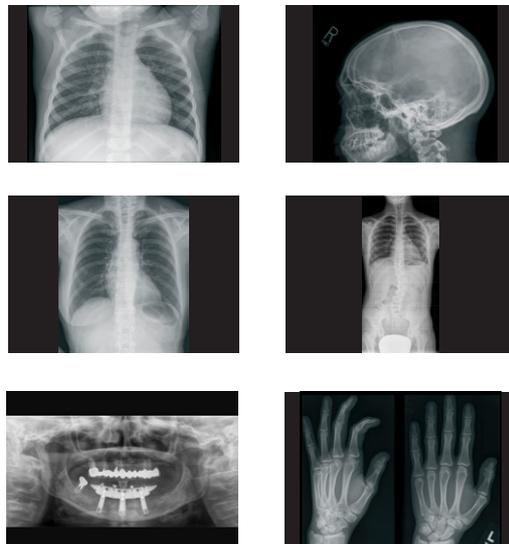
The DX-G digitizer unites superb image quality with a drop-and-go buffer-based workflow and enables a potential reduction in patient dose. It offers the unprecedented convenience of being able to combine standard phosphor plates and needle-based detectors.

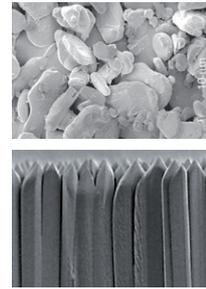
- State-of-the-art image quality, with potential dose reduction
- Drop-and-go cassette buffer
- Broad range of applications
- Both needle-based detectors and standard phosphor plates

The next-generation in CR for general radiography departments, the DX-G digitizer unites superb image quality with the convenience of supporting both standard phosphor plates and needle-based detectors. The exclusive DirectriX detector technology offers the potential for a significant patient dose reduction. With a user-friendly drop-and-go buffer that can handle a mix of five cassettes of different sizes, workflow is smoother and more productive. The DX-G can be used as a centralized or decentralized digitizer in the radiography department, supporting a broad range of applications. In a centralized environment, it can serve multiple rooms. At the same time, its small footprint means it can be placed in any available space.

### State-of-the art image quality, with potential dose reduction

By supporting both standard phosphor plates and needle-based detectors, the DX-G unites complete convenience with high image quality, while leveraging the radiography department's existing investments. With standard phosphor plates, the DX-G delivers excellent image quality. When used with DirectriX needle-based detectors, however, the DX-G provides superb image quality with a much higher Detective Quantum Efficiency (DQE). This state-of-the-art image quality offers the potential to reduce patient dose.





Needle-based detector

Powder phosphor plate

### Broad range of applications

The combination of needle-based detectors, standard phosphor plates with specific cassettes and image resolution mode make the DX-G ideal for a broad range of applications:

- General radiography
- Orthopedics - extremities
- Dental
- Pediatrics and neonatal
- Full Leg / Full Spine

It offers two different image resolution modes: 100 µm pixel pitch (10 pixels/mm) and 150 µm pixel pitch (6.7 pixels/mm).

### Optimal productivity and smooth workflow

The drop-and-go buffer and fast preview eliminate waiting times and facilitate a continuous workflow within the department.

The five-cassette drop-and-go buffer can handle a mix of different sizes of both needle-based detectors and standard phosphor plates. The automatic cassette handling makes DX-G highly productive and user-friendly.

Using DX-G as a central digitizer in the radiography department, multiple examination rooms can be supported. With its small footprint, it can fit into the tightest spaces, including the X-ray room or even a narrow corridor.

### The right choice

To eliminate any confusion, needle-based detector cassettes are gray, while standard phosphor plate cassettes are orange, so that there is little chance of the user making a mistake when selecting the desired cassette. Each plate has an embedded memory that stores the data entered during identification by no-touch radiofrequency tagging. Thus, the identification data and images are linked from the beginning throughout the entire digital processing system.

## SAFETY

Region	Safety	EMC	Laser
EUROPE	IEC 60601-1:1988 + A1:1991: + A2:1995	EN 60601-1-2:2007 EN 300 330 2 V1.1.1:2001 EN 301 489 V1.3.1:2001	60825-1:1993 + A1:1997 + A2:2001
USA	UL60601-1:2003	FCC part 15	CFR parts 1040.10 and 1040.11
CANADA	CSA C 22.2 No.601.1: 1990 + S1:1994 + A2:1998	CSA C 22.2 No. 601.1.2	CSA-E60825-1-03

Cassettes for  
needle-based  
detectors



Cassettes for  
standard phosphor  
plates



## DETECTORS

### Needle-based detector

	Size	Spatial resolution	Pixel matrix
■ CR HD5.0 General SR	35 x 43 cm (13.77 x 16.92")	6.7 pixels/mm	2272 x 2800
■ CR HD5.0 General	35 x 43 cm (13.77 x 16.92")	10 pixels/mm	3408 x 4200
	24 x 30 cm (9.44 x 11.81")	10 pixels/mm	2256 x 2880
	18 x 24 cm (7.08 x 9.44")	10 pixels/mm	1656 x 2280
	15 x 30 cm (5.90 x 11.81")	10 pixels/mm	1344 x 2880
■ CR HD5.0 AEC	35 x 43 cm (13.77 x 16.92")	10 pixels/mm	3408 x 4200
	24 x 30 cm (9.44 x 11.81")	10 pixels/mm	2256 x 2880
	18 x 24 cm (7.08 x 9.44")	10 pixels/mm	1656 x 2280
■ CR HD5.0 FLFS	35 x 43 cm (13.77 x 16.92")	10 pixels/mm	3408 x 4368

### Standard phosphor plate

	Size	Spatial resolution	Pixel matrix
■ CR MD4.0R General SR	35 x 43 cm (13.77 x 16.92")	6.7 pixels/mm	2320 x 2832
	35 x 35 cm (13.77 x 13.77")	6.7 pixels/mm	2320 x 2320
■ CR MD4.0R General	35 x 43 cm (13.77 x 16.92")	10 pixels/mm	3480 x 4248
	35 x 35 cm (13.77 x 13.77")	10 pixels/mm	3480 x 3480
	24 x 30 cm (9.44 x 11.81")	10 pixels/mm	2328 x 2928
	18 x 24 cm (7.08 x 9.44")	10 pixels/mm	1728 x 2328
	15 x 30 cm (5.90 x 11.81")	10 pixels/mm	1440 x 2928
■ CR MD4.0R FLFS SR	35 x 43 cm (13.77 x 16.92")	10 pixels/mm	3480 x 4392

## Technical Specifications

### GENERAL

#### Drop-and-go cassette buffer

- 5 cassettes of mixed sizes input buffer and 5 cassettes of mixed sizes output buffer

#### Throughput

- 35 x 43 cm (14 x 17") = approx. 83 plates/h

#### Display for status and error indication

- LCD touchscreen
- LED status indicator

#### Greyscale resolution

- Output to processor:  
16 bits/pixel square root compressed

#### Dimensions and weight

- Covered floor space (W x D x H):  
660 x 510 x 1230 mm (26 x 20 x 48.4")
- Output buffer included (W x D x H):  
1150 x 510 x 1230 mm (43.5 x 20 x 48.4")
- Weight: approx. 180kg (397 lb)

#### Configuration requirements

- NX
- ID tablet
- CR HD5.0 Detectors and Cassettes
- CR MD4.0R Plates and Cassettes

### Power

- 220 - 240 V/50-60 Hz  
Standby 87 W, peak 590 W, fuse 16 A
- 120 V/60 Hz (USA)  
Standby 92 W, peak 621 W, fuse 15 A
- 100 V/60 Hz (Japan)  
Standby 92 W, peak 621 W, fuse 15 A

### Environmental Requirements

#### DX-G digitizer

- Temperature: +15 ~ +30° C (+59 ~ +86° F)
- Humidity: 15 ~ 75% Rh
- EMC compliant with IEC 60601-1-2
- Rate of change of temperature:  
0.5° C/minute (0.9° F)

#### Transport details

- Temperature: -25 ~ +55° C (-13 to 131° F),  
-25° C for max. 72 hours, +55° C for max. 96 hours
- Humidity: 5 ~ 95% Rh

### Environmental effects

- Noise level: max. 65 dB (A)
- Heat dissipation: standby 92 W,  
continuous operation 242 W

### SAFETY

#### Approvals

- ETL classified CUS, CE

For more information on Agfa, please visit our website on [www.agfa.com](http://www.agfa.com) ■

Agfa and the Agfa rhombus are trademarks of Agfa-Gevaert NV, Belgium, or its affiliates. DirectriX and the DirectriX logo are trademarks of Agfa-Gevaert NV, Belgium, or its affiliates. All rights reserved. All information contained herein is intended for guidance purposes only, and characteristics of the products and services described in this publication can be changed at any time without notice. Products and services may not be available for your local area. Please contact your local sales representative for availability information. Agfa-Gevaert NV diligently strives to provide as accurate information as possible, but shall not be responsible for any typographical error.

© 2012 Agfa NV  
All rights reserved  
Published by Agfa NV  
Septestraat 27 - 2640 Mortsel  
Belgium

50C18 GB 00201802