



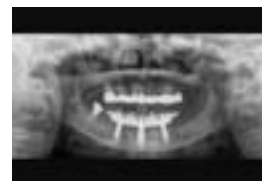
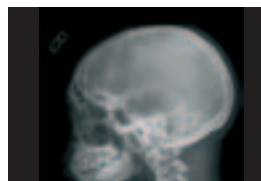
- State-of-the-art image quality, with potential dose reduction
- Drop-and-go cassette buffer
- Broad range of applications
- Both needle-based detectors and standard phosphor plates

## 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.*

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.

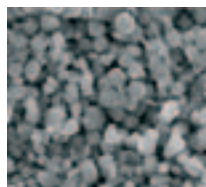


## State-of-the art image quality, with potential dose reduction

By supporting both standard phosphor plates and needle-based detectors, the DX-G unites complete convenience with top 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  $\mu\text{m}$  pixel pitch (10 pixels/mm) and 150  $\mu\text{m}$  pixel pitch (6.7 pixels/mm).



## Maximum 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 no 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.



Cassettes for needle-based detectors



Cassettes for standard phosphor plates

Needle-based detector	Size	Spatial resolution	Pixel matrix
CR HD5.0 General SR	35 x 43	6.7 pixels/mm	2272 x 2800
CR HD5.0 General	35 x 43	10 pixels/mm	3408 x 4200
	24 x 30	10 pixels/mm	2256 x 2880
	18 x 24	10 pixels/mm	1656 x 2280
	15 x 30	10 pixels/mm	1344 x 2880
CR HD5.0 FLFS	35 x 43	10 pixels/mm	3408 x 4368
Standard phosphor plate	Size	Spatial resolution	Pixel matrix
CR MD4.0R General SR	35 x 43	6.7 pixels/mm	2320 x 2832
	35 x 35	6.7 pixels/mm	2320 x 2320
CR MD4.0R General	35 x 43	10 pixels/mm	3480 x 4248
	35 x 35	10 pixels/mm	3480 x 3480
	24 x 30	10 pixels/mm	2328 x 2928
	18 x 24	10 pixels/mm	1728 x 2328
	15 x 30	10 pixels/mm	1440 x 2928
CR MD4.0R FLFS SR	35 x 43	6.7 pixels/mm	2320 x 2928

## SAFETY

Region	Safety	EMC	Laser
Europe	IEC 60601-1:1988 + A1:1991: + A2:1995	EN 60601-1-2:2007	60825-1:1993 +
		EN 300 330 2 V1.1.1:2001	A1:1997 + A2:2001
		EN 301 489 V1.3.1:2001	
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

# 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 inch) = approx. 83 plates/hour

#### 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): 66 x 51 x 123 cm (26 x 20 x 48.4 inch)
- Output buffer included:  
(W x D x H): 115 x 51 x 123 cm (5.3 x 20 x 48.4 inch)
- Weight: approx.: 180 kg (397 lbs)

#### Configuration requirements

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

### Power

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

### Environmental conditions 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)

### Environmental effects

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

### SAFETY

#### Approvals

- ETL classified CUS, CE

#### Transport details

- Temperature: -25 to +55°C (-4 to 131°F),  
-25°C for max. 72 hours, +55°C for max. 96 hours
- Humidity: 5 - 95% RH

Agfa and the Agfa rhombus are trademarks of Agfa-Gevaert N.V., Belgium, or its affiliates. Directrix and the Directrix logo are trademarks of Agfa HealthCare NV, Belgium or its affiliates. All other trademarks are held by their respective owners and are used in an editorial fashion with no intention of infringement. The data in this publication are for illustration purposes only and do not necessarily represent standards or specifications, which must be met by Agfa HealthCare. 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 at [agfa.com](http://agfa.com) for availability information. Agfa HealthCare diligently strives to provide as accurate information as possible, but shall not be responsible for any typographical error.

© 2009 Agfa HealthCare NV

All rights reserved

Printed in Belgium

Published by Agfa HealthCare NV

B-2640 Mortsel - Belgium

50C18 GB 00200910