

# DX-G

## NEXT-GENERATION CR SYSTEM

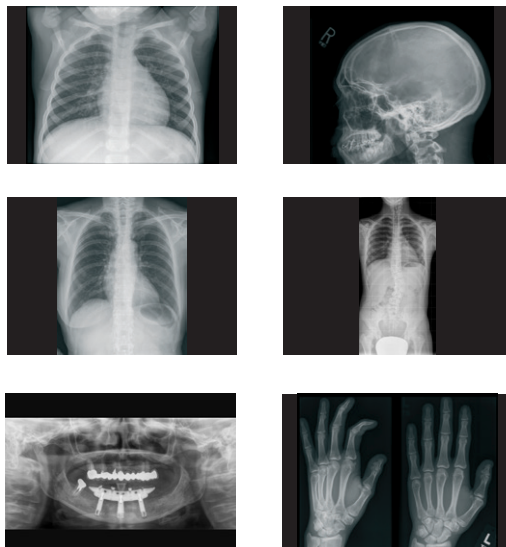
The DX-G digitizer unites superb image quality with a drop-and-go buffer-based workflow and enables a potential reduction in patient dose. It offers the unprecedented convenience of being able to combine standard phosphor plates and needle-based detectors.

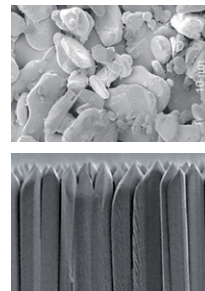
- State-of-the-art image quality, with potential dose reduction
- Drop-and-go cassette buffer
- Broad range of applications
- Both needle-based detectors and standard phosphor plates

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  $\mu\text{m}$  pixel pitch (10 pixels/mm) and 150  $\mu\text{m}$  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

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