



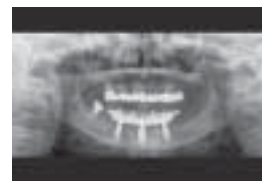
- State-of-the-art image quality, with potential dose reduction
- Drop-and-go cassette buffer
- Broad range of applications
- Both needle-based detectors and standard phosphor plates

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 μm pixel pitch (10 pixels/mm) and 150 μm 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 AEC	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
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	35 x 43	10 pixels/mm	3480 x 4392

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

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 (45.3 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

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