

NEXT-GENERATION CR SYSTEM

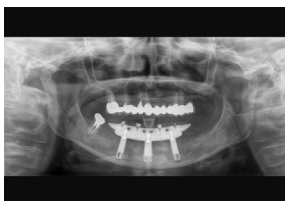
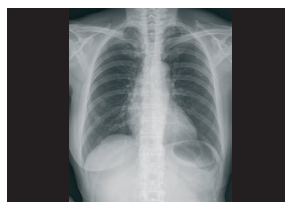
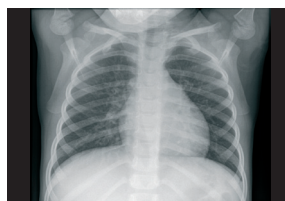
DX-M



The next-generation in CR for general radiography departments, the DX-M digitizer unites excellent 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 reduction in patient dose. 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-M 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 areas where space is limited.

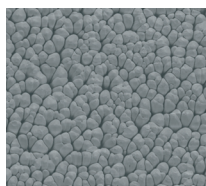
THE DX-M DIGITIZER UNITES EXCELLENT IMAGE QUALITY WITH A DROP-AND-GO BUFFER-BASED WORKFLOW AND ENABLES A POTENTIAL REDUCTION IN PATIENT DOSE. IT OFFERS THE UNPRECEDENTED CONVENIENCE OF BEING ABLE TO COMBINE STANDARD PHOSPHOR PLATES AND NEEDLE-BASED DETECTORS.

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

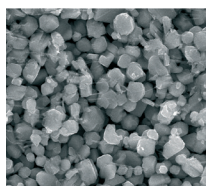


Excellent image quality, with potential dose reduction

By supporting both standard phosphor plates and needle-based detectors, the DX-M unites complete convenience with top image quality, while leveraging a radiography department's existing investments. With standard phosphor plates, the DX-M delivers excellent image quality. When used with Directrix needle-based detectors, the DX-M provides excellent image quality with a much higher Detective Quantum Efficiency (DQE) and 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-M ideal for a broad range of applications:

- General radiography
- Orthopaedics - 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-M highly productive and user-friendly.

Using DX-M as a central digitizer in the radiography department, multiple examination rooms can be supported. With its small footprint, it can fit into tight 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 to help the user more easily select 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

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

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 in) = 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 in)
- Output buffer included:
(W x D x H): 115 x 51 x 123 cm (45.3 x 20 x 48.4 in)
- 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 - 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 conditions DX-M 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 92 W, continuous operation 242 W

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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