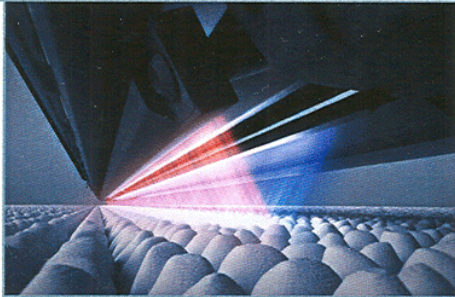




DX-S DIGITIZER

for Computed Radiography



- Innovative technologies
- Very fast cycle time
- Precision CR image quality
- Easy in-room integration



> **DX-S IS A NEW GENERATION HIGH-THROUGHPUT DECENTRALIZED DIGITIZER.**

The DX-S fully integrated, compact and flexible CR digitizer is the result of the combination of two innovative technologies:

- Scanhead - a revolutionary CR line scanning system
- DirectriX - a breakthrough in CR detector technology

DX-S increases significantly your CR performance at the point of care.

Very fast cycle time

Scanhead technology enables high resolution scanning of the DirectriX detector. This line-to-line scanning provides an accelerated read-out resulting in a fast preview image and a high cassette throughput of up to 130 cassettes per hour.

Precision CR image quality

The DX-S digitizer provides precision image quality with a scanning resolution equal to 50 μm (20 pixel/mm). DirectriX needle-based detector technology uses a crystal phosphor that allows higher packing density and layer thickness than is offered by powder phosphor when used in a binding material. In addition, the crystal phosphor's reduced light spread increases sharpness. As a result, the detector's X-ray absorption and conversion efficiencies are greater, leading to the potential for significant patient X-ray dose reduction.

DX-S DIGITIZER



Flexibility

The DX-S system's compact mobile design has been adapted specifically for decentralized use in:

- General Radiography
- Paediatrics
- Emergency/Trauma

placing imaging capabilities directly inside the X-ray room.

Integrated design for maximum use

DX-S's integrated and ergonomic design includes:

- Cassette storage of up to four large formats
- Quality Station server
- Patient proximity
- UPS for digitizer and workstation
- DX-S digitizer

Patient proximity

By locating the DX-S digitizer in examination rooms, operators are able to remain with their patients during image capture, processing and quality control. This leads to reduced examination times and increased patient satisfaction.

Portability and exam range

DX-S has been developed to address the widest possible range of exams. The full portability of the DX-S detector allows for:

- Easy positioning
 - Perfect fit between anatomy and positioning
 - Reduced patient positioning time when performing difficult examinations
- High flexibility
 - Nasal bones: superoinferior (axial) projection
 - Femur: trauma lateromedial projection
 - Patella: tangential projection
 - Hip: axiolateral projection
 - Shoulder: axial and tangential projection

> SAFETY

REGION	REGULATION	X-RAY	LASER
Europe	EN 60601-1: 1990 + A1: 1993 + A2: 1995 EN 60601-1-2: 2001	Regulation: 1987	EN 60825 - 1:2001
USA	UL 2601 21CFR part 820: good manufacturing practice for medical devices	DHHS/FDA 21 CFR part 1002, subchapter B	DHHS/FDA 21 CFR parts 1040, 10 and 1040, 11
Canada	CSA22.2 No.601.1 No.601.1.2		

TECHNICAL SPECIFICATIONS

GENERAL

Digitizer type

- Single cassette feed

Throughput:

Cassette format	Throughput/h
35x43	115
24x30	130
18x24	130

After patient ID:

Cassette format	Cassette Cycle Time
35x43	22.2s
18x24	19.9s

LCD display

Machine status and error conditions

Greyscale resolution

- Data acquisition: 16 bits linear/pixel
- Output to processor: 12 bits/pixel

Dimensions and weight

- (W x D x H): 33 x 79 x 85cm (13 x 31.1 x 33.4in)
- Weight: Approx.: 105kg (210Lb)

Power

- Single phase only
- 50/60 Hz Installations: auto ranging power supply to cover a voltage from 100 V -10% to 230V + 10%

Cassette sizes

- 18x24cm
- 24x30cm
- 15x30cm
- 35x43cm

Environmental conditions

- Temperature: 15 - 30 °C (59 - 86 °F)
- Humidity: 15 - 80% RH
- Magnetic fields: max. 12.60 µT in conformance with EN 61000-4-8: level 3
- Rate of change of temperature: 0.5 °C/minute (0.9 °F)

Environmental effects

- Noise level: max. 65 dB (A)

SAFETY

Approvals

- TÜV, UL, cUL, 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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