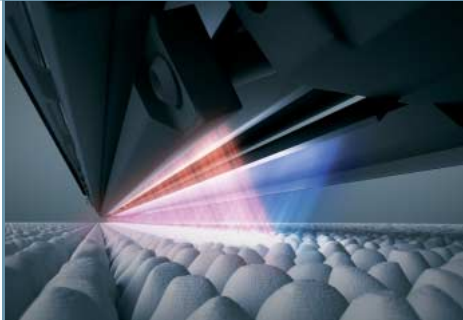




## **DX-S DIGITIZER**

*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  $\mu\text{m}$  (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
<b>Europe</b>	EN 60601-1: 1990 + A1: 1993 + A2: 1995 EN 60601-1-2: 2001	Regulation: 1987	EN 60825 - 1:2001
<b>USA</b>	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
<b>Canada</b>	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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