DX-S
for Digital Radiography

DX-S is a high-throughput, decentralized digitizer with state-of-the-art image quality

Hospitals are continually concerned with increasing efficiency and effectiveness, in order to meet the always-growing demand for high quality, affordable healthcare. Agfa HealthCare developed DX-S to address this requirement by dramatically improving CR performance.

DX-S is a high-throughput and flexible digitizer which combines two innovative and exclusive Agfa HealthCare technologies – DirectriX phosphor plate technology and Scanhead high-resolution scanning. The resulting increase in X-ray absorption and conversion efficiencies allows a significant patient dose reduction. DX-S has also been designed to bring a full range of imaging exams directly to the point-of-care in General Radiography, Paediatric and Emergency environments.

The cassette-based workflow makes it easy to use wherever needed, thanks to trouble-free positioning, portability and flexibility of application. DX-S interfaces with the NX workstation and DX-Si X-ray system, for an integration that ensures better workflow efficiency and improved operability. Its performance exceeds anything else currently available on the CR market.

- Unites two unique Agfa HealthCare technologies – DirectriX™ and Scanhead™ – to provide a high level of image quality, speed and flexibility
- Enables a reduction in X-ray patient doses through the exclusive DirectriX detector technology.
- Is designed to bring a full range of imaging exams directly to the point-of-care.
- Combines with the NX workstation and DX-Si X-ray system to form the DX-Si integrated digital radiography solution.
By locating the DX-S digitizer in examination rooms, technologists are able to remain with their patients during image acquisition, processing and quality control, for a higher patient satisfaction, especially for children. Additionally, the technologist benefits from the efficient and practical usage, for a better time management.

The DX-S interfaces with both the NX workstation and the DX-Si X-ray system to create Agfa HealthCare's integrated digital radiography solution: DX-Si. DX-Si provides state-of-the-art image quality, versatility, integration, high-throughput, patient proximity and a solid return on investment. The result is the high image quality, greater workflow efficiency and improved patient care healthcare facilities want.
SAFETY

<table>
<thead>
<tr>
<th>Region</th>
<th>Regulation</th>
<th>X-Ray</th>
<th>Laser</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>EN 60601-1-2: 2001</td>
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<td>USA</td>
<td>UL 60601</td>
<td>DHHS/FDA 21 CFR part 1002, subchapter B</td>
<td>DHHS/FDA 21 CFR parts 1040, 10</td>
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<td>21 CFR part 820: good manufacturing practice for medical devices</td>
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<td>and 1040, 11</td>
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<td>Canada</td>
<td>CSA22.2 No.601.1 No.601.1.2</td>
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technical SPECIFICATIONS

DX-S DIGITIZER

Single cassette feed

Throughput:

<table>
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<tr>
<th>Cassette format</th>
<th>Throughput/h</th>
<th>Cassette Cycle Time</th>
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</thead>
<tbody>
<tr>
<td>35 x 43 cm</td>
<td>115 cassettes</td>
<td>22.2 sec</td>
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<tr>
<td>24 x 30 cm</td>
<td>130 cassettes</td>
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<tr>
<td>18 x 24 cm</td>
<td>130 cassettes</td>
<td>22.2 sec</td>
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After patient ID:

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<th>Cassette Cycle Time</th>
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<tbody>
<tr>
<td>35 x 43 cm</td>
<td>22.2 sec</td>
</tr>
<tr>
<td>18 x 24 cm</td>
<td>19.9 sec</td>
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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 85 cm
- Weight: Approx.: 105 kg

Power

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

Environmental effects

- Noise level: max. 65 dB (A)

HD 5.0 CASSETTE SIZES

- 35 x 43 cm
- 24 x 30 cm
- 18 x 24 cm
- 15 x 30 cm
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)

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

AIO CART – ALL-IN-ONE CART

Option 1: ALL-IN-ONE CART consists of:

- The DX-S digitizer
- The NX operator workstation
- The UPS for digitizer and workstation
- Cassette storage for up to four large formats

Option 2: CUT DOWN ALL-IN-ONE CART consists of:

- The DX-S digitizer
- The NX operator workstation
- The UPS for digitizer and workstation

Option 3: Consists of option 2 as separate components (no all-in-one cart)

DX-S can form part of Agfa HealthCare’s DX-Si integrated solution, in combination with NX and the DX-Si X-ray system. Please refer to the DX-Si X-ray system and NX datasheets for more information.