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
- Drop-and-go cassette buffer
- Broad range of applications
- Both needle-based detectors and standard phosphor plates
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.

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.
<table>
<thead>
<tr>
<th>Needle-based detector</th>
<th>Size</th>
<th>Spatial resolution</th>
<th>Pixel matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR HD5.0 General SR</td>
<td>35 x 43</td>
<td>6.7 pixels/mm</td>
<td>2272 x 2800</td>
</tr>
<tr>
<td>CR HD5.0 General</td>
<td>24 x 30</td>
<td>10 pixels/mm</td>
<td>2256 x 2880</td>
</tr>
<tr>
<td></td>
<td>18 x 24</td>
<td>10 pixels/mm</td>
<td>1656 x 2280</td>
</tr>
<tr>
<td></td>
<td>15 x 30</td>
<td>10 pixels/mm</td>
<td>1344 x 2880</td>
</tr>
<tr>
<td>CR HD5.0 FLFS</td>
<td>35 x 43</td>
<td>10 pixels/mm</td>
<td>3408 x 4368</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard phosphor plate</th>
<th>Size</th>
<th>Spatial resolution</th>
<th>Pixel matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>CR MD4.0R General SR</td>
<td>35 x 43</td>
<td>6.7 pixels/mm</td>
<td>2320 x 2832</td>
</tr>
<tr>
<td></td>
<td>35 x 35</td>
<td>6.7 pixels/mm</td>
<td>2320 x 2320</td>
</tr>
<tr>
<td>CR MD4.0R General</td>
<td>35 x 43</td>
<td>10 pixels/mm</td>
<td>3480 x 4248</td>
</tr>
<tr>
<td></td>
<td>35 x 35</td>
<td>10 pixels/mm</td>
<td>3480 x 3480</td>
</tr>
<tr>
<td></td>
<td>24 x 30</td>
<td>10 pixels/mm</td>
<td>2328 x 2928</td>
</tr>
<tr>
<td></td>
<td>18 x 24</td>
<td>10 pixels/mm</td>
<td>1728 x 2328</td>
</tr>
<tr>
<td></td>
<td>15 x 30</td>
<td>10 pixels/mm</td>
<td>1440 x 2928</td>
</tr>
<tr>
<td>CR MD4.0R FLFS SR</td>
<td>35 x 43</td>
<td>6.7 pixels/mm</td>
<td>2320 x 2928</td>
</tr>
</tbody>
</table>

**SAFETY**

<table>
<thead>
<tr>
<th>Region</th>
<th>Safety</th>
<th>EMC</th>
<th>Laser</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>UL60601-1:2003</td>
<td>FCC part 15</td>
<td>CFR parts 1040.10 and 1040.11</td>
</tr>
</tbody>
</table>
### 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 (5.3 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