**Product Description**

The PaxScan 4343R Version 2 is our largest X-ray imaging flat panel detector designed for general digital radiographic imaging. Based upon the new Gigabit Ethernet interface, images are displayed on a user-supplied workstation.

**Technical Specifications**

- **Receptor Type**: Amorphous Silicon
- **Conversion Screen**: DRZ+, CsI
- **Pixel Area - Total**: 42.7 (h) x 42.7 (v) cm (16.8 x 16.8 inch)
- **Active**: 42.4 (h) x 42.4 (v) cm (16.7 x 16.7 inch)
- **Pixel Matrix - Total**: 3,072 (h) x 3,072 (v)
- **Effective**: 3,052 (h) x 3,052 (v)
- **Pixel Pitch**: 139 μm
- **Limiting Resolution**: 3.6 lp/mm

**Image Quality**

<table>
<thead>
<tr>
<th>DRZ+ (typical)</th>
<th>CSI (typical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQE @ 0 lp/mm</td>
<td>40%</td>
</tr>
<tr>
<td>DQE @ 1 lp/mm</td>
<td>29%</td>
</tr>
<tr>
<td>DQE @ 2 lp/mm</td>
<td>18%</td>
</tr>
<tr>
<td>DQE @ 3 lp/mm</td>
<td>8%</td>
</tr>
<tr>
<td>MTF @ 1 lp/mm</td>
<td>55%</td>
</tr>
<tr>
<td>MTF @ 2 lp/mm</td>
<td>25%</td>
</tr>
<tr>
<td>MTF @ 3 lp/mm</td>
<td>11%</td>
</tr>
</tbody>
</table>

**Dose Range**

<table>
<thead>
<tr>
<th>DRZ+</th>
<th>CSI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturation Dose</td>
<td>165 μGy</td>
</tr>
<tr>
<td>Maximum Linear Dose</td>
<td>122 μGy</td>
</tr>
<tr>
<td>Noise Equivalent Dose</td>
<td>722 nGy</td>
</tr>
</tbody>
</table>

**Cycle Time @ 550ms**: 2.35 sec

**X-ray window**: 350-2200ms

**Energy Range**: 40 - 150 kVp

**Fill Factor**: 60%

**Scan Method**: Progressive

**Data Output**: Gigabit Ethernet

**A/D Conversion**: 16-bit

**Workstation Interface**: Ethernet Port

**Exposure Control**: Inputs: Expose-Request

**Software**

The software release includes ViVA™, a basic application for image acquisition and viewing on an end-user workstation or laptop running Microsoft® Windows™. The developer’s software package includes a “Virtual Command Processor” software interface that performs detector calibration, detector set-up, image acquisition, and image corrections. ViVA™ includes file type translators for .viv, .raw, .jpg, and .bmp file formats. Windows® 7 (32 & 64 bit), Windows® 8 (64 bit), Windows® 10 (64 bit) compatible.

**Computer Requirements**

- **RAM**: 2.00 GB
- **CPU**: Pentium dual core running @ 2.0 GHz or equivalent

**Power Requirements**

- **Power Dissipation**: 18 watts (cont.)
- **Power Supply/Adaptor**: 100-240 VAC, 50-60 Hz

**Mechanical**

- **Weight**: approx. 15.5 lbs (7.0 kg)
- **Housing Material**: Aluminum
- **Sensor Protection**: Carbon fiber and aluminum

**Environmental**

- **Shock**: High-shock tolerance
- **Temperature Range - Operating (at back cover)**: 10°C to 35°C (max.)
- **Humidity - Operating & Storage (non-condensing)**: 10 to 90%
- **Atmospheric Pressure - Operating & Storage**: 70 kPa to 106 kPa

**Regulatory**

- **U.S.**: ANSI/AAMI ES60601-1:2005
- **Canada**: CAN/CSA C22.2 No. 60601-1:08
- **EU**: IEC/EN 60601-1:2005

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