PaxScan® 4343RC
Flat Panel Detector

Product Description
The PaxScan 4343RC is a ruggedized X-ray imaging flat panel detector designed for general radiographic imaging in fixed and portable applications. The 4343RC is UL rated for patient contact.

Technical Specifications
Receptor Type........ Amorphous Silicon with PIN Technology
Conversion Screen ................................................... CsI, DRZ+
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>DOE @ 2.1 µGy</th>
<th>GADOX/DRZ+ (typical)</th>
<th>CSI (typical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQE @ 0 lp/mm</td>
<td>38%</td>
<td>78%</td>
</tr>
<tr>
<td>DQE @ 1 lp/mm</td>
<td>27%</td>
<td>55%</td>
</tr>
<tr>
<td>DQE @ 2 lp/mm</td>
<td>16%</td>
<td>42%</td>
</tr>
<tr>
<td>DQE @ 3 lp/mm</td>
<td>7%</td>
<td>28%</td>
</tr>
<tr>
<td>DQE @ Nyquist</td>
<td>3%</td>
<td>14%</td>
</tr>
<tr>
<td>MTF @ 1 lp/mm</td>
<td>54%</td>
<td>56%</td>
</tr>
<tr>
<td>MTF @ 2 lp/mm</td>
<td>23%</td>
<td>27%</td>
</tr>
<tr>
<td>MTF @ 3 lp/mm</td>
<td>9%</td>
<td>14%</td>
</tr>
<tr>
<td>MTF @ Nyquist</td>
<td>6%</td>
<td>10%</td>
</tr>
</tbody>
</table>

Sensitivity 402 LSB/nGy

Dose Range

<table>
<thead>
<tr>
<th>DRZ+</th>
<th>CsI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturation Dose</td>
<td>163 µGy</td>
</tr>
<tr>
<td>Maximum Linear Dose</td>
<td>132 µGy</td>
</tr>
<tr>
<td>Noise Equivalent Dose</td>
<td>367 nGy</td>
</tr>
</tbody>
</table>

Cycle Time @ 550ms .................................................. 3.4 sec
X-ray window ............................................................. 350-4000ms
Energy Range ............................................................. 40 - 150 kVp
Fill Factor ................................................................. 63%
Scan Method ............................................................... Progressive
Data Output ............................................................... Gigabit Ethernet
A/D Conversion .......................................................... 16-bit
Workstation Interface .................................................. Ethernet Port
Exposure Control ....................................................... Inputs: Expose-Request and Prep Outputs: Expose-OK AED: vTrigger

Patient Contact
Surface Temperature .................. rated to not exceed 42 degrees C
Weight Limit
Uniform load across entire carbon fiber surface .................. 150 kg
Concentrated 40mm diameter load at the center of the imager .................. 100 kg

Software
The 4343RC embeds the M-series Varex Imaging Smart Panel (VSP) software within the receptor. Developers interface with the receptor through VSP COMM which resides on the workstation. The integrator experience is simplified through the new M-series software interface. An onboard Control Panel is used to manage receptor settings and configuration. The ViVA™ sample imaging application is included. VSP COMM is Windows® 7 (32 & 64-bit) or Windows 8.1 (32 & 64-bit) or Windows® 10 (32 & 64-bit) compatible.

Computer Requirements
RAM ................................................................. 2.00 GB
CPU .................................. Pentium dual core running @ 2.0 GHz or equivalent

Power
Power Dissipation .................................................. 14 watts (max.)
Power Supply/Adaptor .............................................. 90-240 VAC, 47-63 Hz

Mechanical
Weight (without cable)
DRZ+ ................................................................. 3.50 kg ± 0.1 kg
CsI ................................................................. 3.76 kg ± 0.1 kg

Housing Material .................................................. Aluminum
Sensor Protection ........................................ Carbon fiber and aluminum

Environmental
Shock ................................................................. High-shock tolerance
Temperature Range - Operating (at back cover) .. 10°C to 40°C (max.)
(Ambient) - Storage .......... -20°C to +70°C
Humidity - Operating & Storage (non-condensing) ...... 10% to 90%
Atmospheric Pressure - Operating & Storage ...... 70 kPa to 106 kPa

Regulatory
U.S. .................................................. ANSI/AAMI ES60601-1:2012
Canada ................................ CAN/CSA C22.2 No. 60601-1:14
EU ................................................................. IEC/EN 60601-1:2012

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PaxScan® 4343RC
Flat Panel Detector

4343RC Panel

Dimensions are for reference only
Dimensions are in Inches [mm]

I/O Box

Manufactured by Varex Imaging Corporation
Specifications subject to change without notice.

Note: All Varex Imaging Amorphous Silicon Receptors are designed to be integrated into a complete X-ray system by a qualified system integrator. The system integrator is responsible for obtaining FDA clearance for medical use.