### PaxScan® 2520DX

#### Flat Panel Detector

**Product Description**

PaxScan 2520DX imagers provide industry leading CBCT and Panoramic image quality for dental applications. Varex Imaging’s amorphous silicon based detectors are the gold standard for CBCT in medical, dental and industrial applications.

Amorphous silicon brings key advantages unmatched by other technologies, including:

- radiation hardness > 1MRad
- widest input energy range
- immunity from single photon events in the substrate
- excellent low dose performance
- proven 3-D soft-tissue capability

Varex Imaging’s extensive dental product line allows the OEM to easily integrate multiple panel sizes. The Virtual CP software interface is common across all the panels and the entire product line is offered with Gigabit Ethernet.

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### Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receptor Type</td>
<td>Amorphous Silicon</td>
</tr>
<tr>
<td>Conversion Screen</td>
<td>Direct Deposit CsI, DRZ Plus</td>
</tr>
<tr>
<td>Pixel Area</td>
<td>19.5 x 24.4 cm (7.68 x 9.6 in.)</td>
</tr>
<tr>
<td>Pixel Matrix</td>
<td>1,536 x 1,920 (1 x 1)</td>
</tr>
<tr>
<td></td>
<td>768 x 960 (2 x 2)</td>
</tr>
<tr>
<td>Pixel Pitch</td>
<td>127 μm²</td>
</tr>
<tr>
<td>Limiting Resolution</td>
<td>3.94 lp/mm</td>
</tr>
<tr>
<td>MTF, X-Ray</td>
<td>&gt;68% @ 1 lp/mm (1 x 1), CsI screen</td>
</tr>
<tr>
<td>Energy Range</td>
<td>40 - 160 kVp</td>
</tr>
<tr>
<td>Fill Factor</td>
<td>57%</td>
</tr>
<tr>
<td>Image Capture</td>
<td>Gigabit Ethernet</td>
</tr>
<tr>
<td>Scan Method</td>
<td>Progressive</td>
</tr>
<tr>
<td>A/D Conversion</td>
<td>16-bit</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>12.5 fps (1 x 1)</td>
</tr>
<tr>
<td></td>
<td>30 fps (2 x 2)</td>
</tr>
<tr>
<td>Data Output</td>
<td>Gigabit Ethernet</td>
</tr>
<tr>
<td>Exposure Control</td>
<td>Opto Coupled, External Sync, Expose OK</td>
</tr>
</tbody>
</table>

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**Software**

The software release includes ViVA™, a basic application for image acquisition and viewing on an end-user workstation 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.

**Power**

- Power Dissipation: 12 Watts nominal power consumption
- Power Supply/Mains: 100 - 240 VAC, 47 - 63 Hz

**Mechanical**

- Weight: 5.53 lbs. (2.51 kg)
- Housing Material: Aluminum
- Sensor Protection Material: Carbon fiber plate (2.5 mm thick) and aluminum

**Environmental**

- Temperature Range - Operating: 10°C to 35°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 ES60601-1:2005
- Canada: CAN/CSA C22.2 No. 60601-1:08
- EU: IEC/EN 60601-1:2005

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PaxScan® 2520DX
Flat Panel Detector

Dimensions are for reference only
Dimensions are in mm

Notes:
1. Top surface of Active Area
3. Indicates center of Active Area
4. Input Voltage = 12 to 32V
5. Max Amps = .52A @ 24V
6. Power Dissipation = 12.48W

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.