PaxScan® 4336Wv4
Flat Panel Detector

Version 2

Product Description
The PaxScan® 4336Wv4 is a lightweight, wireless flat panel detector designed for digital radiographic systems. The PaxScan 4336Wv4 fits standard 14”x17” bucky trays and its wireless communication enables easy migration between table, above the table, chest stand, and mobile cart applications. The PaxScan 4336Wv4 works with commercially available Access Points, or as a stand-alone Access Point. The receptor SDK allows for direct integration into existing systems.

Technical Specifications

Receptor Type
Amorphous Silicon with TFT/PIN diode Technology

Conversion Screen
CsI, DRZ+

Pixel Area

Total
42.7 (v) x 34.4 (h) cm (16.7 x 13.4”)
Active (DRZ+)
42.4 (v) x 34.1 (h) cm (16.7 x 13.4”)
Active (CsI)
42.4 (v) x 33.9 (h) cm (16.6 x 13.3”)

Pixel Matrix

Total
3,072 (v) x 2,476 (h)
Active (DRZ+)
3,052 (v) x 2,456 (h)
Active (CsI)
3,032 (v) x 2,436 (h)

Main Functionalities

Cycle Time @ 550ms 
5.6 sec (MSR2, RCT) (X-ray Window)
X-ray window 
350-3500 ms

Image Quality

<table>
<thead>
<tr>
<th>DQE @ 0 lp/mm</th>
<th>GADOX (typical)</th>
<th>CSI (typical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DQE @ 1 lp/mm</td>
<td>28%</td>
<td>58%</td>
</tr>
<tr>
<td>DQE @ 2 lp/mm</td>
<td>32%</td>
<td>24%</td>
</tr>
<tr>
<td>DQE @ Nyquist</td>
<td>6%</td>
<td>16%</td>
</tr>
<tr>
<td>MTF @ 1 lp/mm</td>
<td>24%</td>
<td>7%</td>
</tr>
<tr>
<td>MTF @ 2 lp/mm</td>
<td>28%</td>
<td>18%</td>
</tr>
<tr>
<td>MTF @ 3 lp/mm</td>
<td>12%</td>
<td>6%</td>
</tr>
<tr>
<td>MTF @ Nyquist</td>
<td>28%</td>
<td>7%</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>0.6 LSB/nGy</td>
<td>0.86 LSB/nGy</td>
</tr>
<tr>
<td>Pixel Noise (1000ms)</td>
<td>9.2 LSB</td>
<td>8.7 LSB</td>
</tr>
<tr>
<td>Memory Effect</td>
<td>0.001 (@ 60sec)</td>
<td>0.004 (@ 60sec)</td>
</tr>
</tbody>
</table>

Dose Range

Maximun Linear Dose
DRZ+ 84 μGy
CsI 58 μGy
NED 0.56 μGy

Energy Range
Standard 40 - 150 kVp
Fill Factor 60%
Scan Method Progressive
Data Output Wireless
A/D Conversion 16-bit
Exposure Control Inputs: Prepare, Expose-Request Outputs: Expose-OK

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
AED will not false trigger due to mechanical impacts.

Software
The PaxScan 4336Wv4 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 (64 bit), Windows 8.1 (64-bit) and Window® 10 compatible.

Computer Requirements
RAM 2.00 GB
CPU 1 GHz or faster processor (32-bit or 64-bit)

Power
Power Consumption
Acquisition - 8.1 watts
Image Transfer - 10.0 watts

Battery
Lithium polymer smart battery prevents over charging
Charge capability 1600 images over 8 hrs
Expected Life 500 cycles of charge/discharge
Battery Charge 12 hours in standby mode

Wireless
Wireless Modes STA or AP
802.11 a/g/n/ac, 2x2 MIMO
Minimum Signal Strength Required -80 dBm
or no image will be acquired

Mechanical
Weight (values are typical) (includes battery)
DRZ+ 2.9 kg ± 0.25 kg
CsI 3.0 kg ± 0.25 kg

Housing Material
Aluminum
Carbon fiber plate

Environmental
Shock 10 compatible.
Water Resistant 60%
Temperature Range - Operating (at back cover) 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 ES 60601-1:2012
Canada CAN/CSA C22.2 No. 60601-1:14
EU IEC/EN 60601-1:2012

High-shock tolerance

ViVA™ sample imaging application is included.
VSP COMM is Windows® 7 (64 bit), Windows 8.1 (64-bit) and Windows® 10 compatible.

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Dimensions are for reference only

Dimensions are in mm

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Weight - 0.77 lbs (.35 kg) (nominal)
Battery Charger (Optional)

Weight - 1.33 kg (nominal)

Single Bay Charger (Optional)

Weight - 0.3 kg (nominal)

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.