PaxScan® 2530W
Flat Panel Detector

**Product Description**

The PaxScan 2530W is a lightweight, wireless flat panel detector designed for digital radiographic X-ray systems. The 2530W fits in existing neonatal bassinets. The ruggedized 2530W design is well suited to mobile cart and in-room, above the table applications. The 2530W supports a number of connection methods, simplifying the integration challenge of going wireless. It can connect to a PaxScan I/O Box, a commercial Access Point or directly to a Tablet or PC and can work with RAD acquisition or autotrigger.

**Technical Specifications**

- **Receptor Type**: Amorphous Silicon
- **Conversion Screen**: Direct Deposit CsI, DRZ+
- **Pixel Area - Total**: 24.9 (v) x 30.2 (h) cm (9.8 x 11.9 inch)
  - Active (DRZ+): 24.6 (v) x 30.0 (h) cm (9.7 x 11.8 inch)
  - Active (CsI): 24.4 (v) x 29.7 (h) cm (9.6 x 11.7 inch)
- **Pixel Pitch**: 139 μm
- **Limiting Resolution**: 3.6 lp/mm
- **Image Quality**:
  - DQE @ 0 lp/mm: 33% (DD), 70% (CsI)
  - DQE @ 1 lp/mm: 24% (DD), 50% (CsI)
  - DQE @ 2 lp/mm: 15% (DD), 32% (CsI)
  - DQE @ 3 lp/mm: 7% (DD), 17% (CsI)
  - MTF @ Nyquist: 4% (DD), 10% (CsI)
  - Sensitivity: 0.412 LSB/nGy (DD), 0.660 LSB/nGy (CsI)
- **Main Functionalities**:
  - Cycle Time @ 550ms X-ray Window: <7 sec
  - X-ray window: 250-2200 ms
- **Dose Range**:
  - DRZ+: CsI
  - Saturation Dose: 130 μGy
  - Maximim Linear Dose: 90 μGy
  - NED (max.): 0.5 μGy
- **Energy Range**: 40 - 150 kVp
- **Fill Factor**: 64%
- **Scan Method**: Progressive
- **Data Output**: Gigabit Ethernet
- **A/D Conversion**: 16-bit
- **Exposure Control - Inputs**: Prepare, Expose-Request
- **Outputs**: Expose-OK
- **Wireless Signal**: >80% or no image acquire

**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 (64 bit) compatible.

**Computer Requirements**

- **RAM**: 2.00 GB
- **CPU**: Pentium dual core running @ 2.0 GHz or equivalent
- **Power**:
  - Power Dissipation: 4.7 watts (idle)
  - 16.0 watts (acquisition)

**Recommended Wireless Access Point**

Paxscan I/O Box or 802.11n, 3x3 MIMO, Dual Band (not included)

**Mechanical**

- **Weight (includes battery)**: 4.6 lbs. (21 kg)
- **Housing Material**: Magnesium
- **Sensor Protection Material**: Carbon fiber plate

**Battery**

- Lithium polymer smart battery prevents over charging
- Charge Capability: 800 continuous images over 4 hrs
- Expected Life: 500 cycles of charge/discharge
- Battery Charge: 10 hours in standby mode

**Environmental**

- **Shock**: High-shock tolerance
- **Water Resistant**: IPX-1 (horizontal, face up)
- **Temperature Range - Operating (at back cover)**: 10°C to 35°C (max.)
  - Storage (ambient): -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

®PaxScan is a Registered Trademark of Varex Imaging Corporation
Dimensions are for reference only
Dimensions are for reference only

Weight - 0.66 lbs (.3 kg) (nominal)
Weight - 1.33 kg (nominal)

3 Slot Time Card Charger

Weight - 0.3 kg (nominal)

Single Bay Charger

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.