Product Description

The PaxScan 2520E+ is a ruggedized X-ray imaging sub-system designed for high-speed radiographic imaging in the field. Based upon the new Gigabit Ethernet interface standard, images are displayed instantaneously on a user-supplied workstation or laptop fitted with the appropriate Gigabit controller chipset. The lightweight magnesium housing is shock-resistant.

Technical Specifications

- **Receptor Type**: Amorphous Silicon
- **Conversion Screen**: CsI, DRZ Plus, or Gd₂O₂S: Tb (Kodak Lanex Screen)
- **Pixel Area**
  - Total: 19.5 x 24.4 cm (7.68 x 9.6 inch)
  - Active: 17.9 x 23.8 cm (7.05 x 9.38 inch)
- **Pixel Matrix**
  - Total: 1,536 x 1,920
  - Active: 1,516 x 1,900
- **Pixel Pitch**: 127 μm²
- **Limiting Resolution**: 3.94 lp/mm
- **MTF, X-Ray**: >48% @ 1 lp/mm Gd₂O₂S:Tb screen (80 kVp)
- **Energy Range**: 40 - 150 kVp
- **Fill Factor**: 57%
- **Image Capture**: Intel PRO/1000GT Desktop Adaptor (PCI)
- **Scan Method**: Progressive
- **Data Output**: Gigabit Ethernet
- **A/D Conversion**: 14-bit
- **Frame Rate**: 1-10 fps (1 x 1)
- **Laptop/PC Interface**: Ethernet Port
- **Exposure Control**: USB port on host computer

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, receptor set-up, image acquisition, and image corrections. ViVA™ includes file translators for .viv, .raw, .jpg, and .bmp formats. Windows® XP compatible.

Power

- **Power Dissipation**: 15 watts (cont.)
- **Power Supply/Adaptor**: +12 VDC

Mechanical

- **Weight (with cables)**: 7.3 lbs. (3.3 kg)
- **I/O Interface Box (optional)**: 5.15 lbs. (2.34 kg)
- **Housing Material**: Magnesium
- **Sensor Protection Material**: Carbon fiber plate (2.5 mm thick) and magnesium

Environmental

- **Shock**: High-shock tolerance
- **Temperature Range**
  - Operating: 1°C to 35°C (max.)
  - Storage: -20°C to +70°C
- **Humidity**
  - Operating & Storage (non-condensing): 10% to 90%
- **Atmospheric Pressure**: 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 in inches [mm]

I/O Interface Box (Optional)
Dimensions are in millimeters

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.