**Product Description**

The PaxScan® 2020DXV is a real-time digital X-ray imaging device commonly referred to as a flat panel detector (FPD). The main system components are the 20 x 20cm 194μm-pixel amorphous silicon FPD. Interfacing to the 2020DXV is a simple task through the standard Gigabit Ethernet port. The developer’s software package includes a “Virtual Command Processor” software interface that performs detector calibration, receptor set-up, image acquisition and image correction. This imager is intended for incorporation into a complete X-ray system by a qualified equipment manufacturer.

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**Technical Specifications**

- **Receptor Type**: Amorphous Silicon
- **Conversion Screen**: Integral columnar CsI:TI
- **Pixel Area - Total**: 199 mm (h) x 199 mm (v)
- **Pixel Matrix - Total**: 1,024 (h) x 1,024 (v)
- **Effective**: 1,004 (h) x 1,004 (v)
- **Pixel Pitch**: 194 μm
- **Limiting Resolution**: 2.58 lp/mm (1 x 1), 1.29 lp/mm (2 x 2)

**Image Quality (RQA5) - (typical)**

- **MTF (1x1)**
  - 1.0 lp/mm: 55%
  - 2.0 lp/mm: 22%
- **DQE (1x1, Quantum-limited)**
  - 0 lp/mm: 80%
  - 1.0 lp/mm: 65%
  - 2.0 lp/mm: 42%
- **Quantum Limited Dose (2x2)**
  - 2 nGy/frame (1x1): 6 nGy/frame
- **Energy Range**: 40 - 150 kVp
- **Fill Factor**: 68%
- **Lag**: 2.5% Nominal (first frame)
- **Scan Method**: Parallel
- **Data Output**: GigE
- **A/D Conversion**: 16-bit
- **Cooling**: Passive
- **Radiation Tolerance (active area)**: 2000 Gy
- **Dynamic Range**: 94 dB std modes, 108 dB DGS modes

**Power Requirements**

- **Input voltage range**: 21 V - 33 V (measured at the input of the imager)
- **Nominal Power Consumption**: 12 W
- **Peak Power Consumption (initialization)**: 15 W

**Mechanical**

- **Weight**: 3.2 kg
- **Housing Material**: Aluminum
- **Sensor Protection**: Carbon fiber and aluminum
- **Mounting Provisions**: Blind, threaded mounting holes on the back

**Environmental**

- **Temperature Range - Operating**: 15°C - 58°C (as reported by imager internal sensor)
- **Temperature Range - Storage**: -20°C - 70°C
- **Relative Humidity (non-condensing)**: 10% - 90%
- **Atmospheric Pressure**: 70 kPa - 106 kPa
- **Shock Tolerance**: 20G (any direction no power applied)

**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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Note 1 Power drop across supply cables is not included.

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