# Technical Specifications

**Receptor Type** ........................................ Amorphous Silicon

**Conversion Screen** .................. Integral columnar CsI:Tl

**Pixel Area - Total** ................... 397mm (h) x 298mm (v) (15.6 x 11.7 in)

**Pixel Matrix - Total** .................. 2,048 (h) x 1,536 (v)

**Pixel Effective** ..................... 2,028 (h) x 1,516 (v)

**Pixel Pitch** ........................................ 194 µm

**Limiting Resolution** ............. 2.58 lp/mm @ 15 fps (1 x 1)

**Image Quality (RQA5)** ............. (typical)

**MTF (1x1)**

- 1.0 lp/mm ........................................ 50%
- 2.0 lp/mm ........................................ 23%

**DQE (1x1, Quantum-limited)**

- 0 lp/mm ........................................ 77%
- 1.0 lp/mm ........................................ 54%
- 2.0 lp/mm ........................................ 30%

**Quantum-limited Dose (2x2)** ........ 4nGy

**Energy Range** ................. 40 - 150 kVp

**Fill Factor** ........................................ 68%

**Lag** ........................................... <5% (first frame)

**Scan Method** ................... Parallel

**Data Output** ................ LVDS, CameraLink

**A/D Conversion** ................ 16-bits

**Cooling** ........................................ Passive

**Radiation Tolerance** .............. 2000 Gy (active area)

**Dynamic Range** ................. 94 dB std modes

**Environmental**

- Temperature Limit ................. 15 - 49°C (as reported by imager internal sensor)

- Relative Humidity ...................... 10 - 90% Non-Condensing

- Atmospheric Pressure .............. 70 kPa - 106 kPa

- Shock Tolerance ..................... 20G (any direction no power applied)

**Regulatory**

- U.S. ........................................ UL 60601-1

- Canada ................................ CSA 22.2 No. 601.1-M90

**Mechanical**

- Weight ........................................ approx. 8.0 kg

- Housing Material ......................... Aluminum

- Sensor Protection ................ Carbon fiber and aluminum


**Image Acquisition Modes**

- Normal Fluoro ....................... 1024 (h) x 768 (v) (2x2 binned)

- Full Resolution ..................... 2,048 (h) x 1,536 (v)

**Power Requirements**

- Input voltage range ................. 18-33 Volts (measured at the input of the imager)

- Nominal Power Consumption ........ 25 Watts

- Peak Power Consumption (initialization) ........ 30 Watts

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

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NOTE: Varian Amorphous Silicon Image 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.