

**Product Description**



The PaxScan<sup>®</sup> 3030+ is a real-time digital X-ray imaging device commonly referred to as a flat panel detector (FPD). The main system components are the 30 x 30cm 194µm-pixel amorphous silicon FPD and Command Processor 2. Excellent low-dose performance is achieved by combining Varian's proprietary readout electronics with a custom Cesium Iodide scintillator. A Windows<sup>®</sup> XP based application program and a communications command (DLL) library has also been developed to assist OEM customers tasked with developing their own system interface. This imager is intended for incorporation into a complete X-ray system by a qualified equipment manufacturer.

Receptor Type .....	Amorphous Silicon
Conversion Screen .....	Integral columnar CsI:Tl
Pixel Area - Total .....	298mm (h) x 298mm (v) (11.7 x 11.7 in)
Pixel Matrix - Effective .....	1,526 (h) x 1,526 (v)
Pixel Pitch .....	194 µm
Limiting Resolution .....	2.58 lp/mm @ 7.5 fps (1 x 1) 1.29 lp/mm @ 30 fps (2 x 2)
MTF, X-Ray .....	>48% (1.0 lp/mm at RQA5, 1 x 1)
DQE (0), Quantum-Limited .....	>65 ±5%
Energy Range .....	40 - 150 kVp
Fill Factor .....	68%
Contrast Ratio .....	Large Area (120mm): < 1% Small Area (10mm): < 7%
Lag .....	<10%, (first frame, 30 fps, 2x2 bin mode)
Gamma .....	1
Scan Method .....	Parallel
Data Output .....	LVDS
A/D Conversion .....	14-bits
Non-Uniformity .....	1% maximum
Cooling .....	Passive
Radiation Tolerance - 200 kRad (active area), 10 kRad (electronics)	

**Environmental**

Temperature Limit .....	35 - 58°C Internal Sensor #8
Relative Humidity .....	10-90% Non-Condensing
Shock Tolerance .....	20G (any direction no power applied)

**Regulatory**

U.S. ....	UL 60601-1
Canada .....	CSA 22.2 No. 601.1-M90

**Mechanical**

Size: cm (inches) .....	33.8 x 32.8 x 5.8 cm (13.3 x 12.9 x 2.3)
Weight .....	approx. 5.6 kg panel only 3.7 kg Command Processor 2
Housing Material .....	Aluminum
Sensor Protection .....	Carbon fiber and aluminum
Mounting Provisions .....	Blind, threaded mounting holes front and back.

**Image Acquisition Modes**

Normal Fluoro .....	768 (h) x 768 (v) (2x2 binned) 30 fps Resolution: 1.29 lp/mm Parallel scan
Full Resolution .....	1,536 (h) x 1,536 (v) 12.5 fps Resolution: 2.58 lp/mm Parallel scan

