



Product Description

The PaxScan® 3030X (version 3) 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 CP2LC. Excellent low-dose performance is achieved by combining Varex Imaging's proprietary readout electronics with a custom Cesium Iodide scintillator. A Windows® 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.

Technical Specifications

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 - Total	1,536 (h) x 1,536 (v)
Effective	1,516 (h) x 1,516 (v)
Pixel Pitch	194 µm
Limiting Resolution	2.58 lp/mm @ 15 fps (1 x 1) 1.29 lp/mm @ 30 fps (2 x 2)

Image Quality (RQA5) (typical)

MTF (1x1)	
1.0 lp/mm	55%
2.0 lp/mm	25%
2.58 lp/mm (Nyquist Frequency)	16%
DQE (1x1, Quantum-limited)	
0 lp/mm	77%
1.0 lp/mm	60%
2.0 lp/mm	37%
Quantum Limited Dose (2x2)	1.5 nGy/frame
Energy Range	40 - 150 kVp
Fill Factor	68%
Lag	<5% (first frame)
Scan Method	Parallel
Data Output	LVDS, CameraLink
A/D Conversion	16-bit
Cooling	Passive
Radiation Tolerance	2000 Gy (active area)
Dynamic Range	94 dB std modes 108 dB DGS modes

Power Requirements

Input voltage range	21V - 33V (measured at the input of the imager)
Nominal Power Consumption ¹	20W
Peak Power Consumption ¹ (initialization)	25W

Mechanical

Weight	approx. 5.6 kg panel
Housing Material	Aluminum
Sensor Protection	Carbon fiber and aluminum
Mounting Provisions	Blind, threaded mounting holes on the back.

Image Acquisition Modes

Normal Fluoro	768 (h) x 768 (v) (2x2 binned)
Full Resolution	1,536 (h) x 1,536 (v)

Environmental

Temperature Limit	15 - 53°C (as reported by imager internal sensor)
Relative Humidity	10 - 80% Non-Condensing
Atmospheric Pressure	70 kPa - 106 kPa
Shock Tolerance	20G (any direction no power applied)

Regulatory

U.S.	ANSI/AAMI ES60601-1:2005
Canada	CAN/CSA C22.2 No. 60601-1:08
EU	IEC/EN 60601-1:2005

Note¹ - Power drop across supply cables is not included

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Drawings for reference only
Dimensions in Inches [mm]

