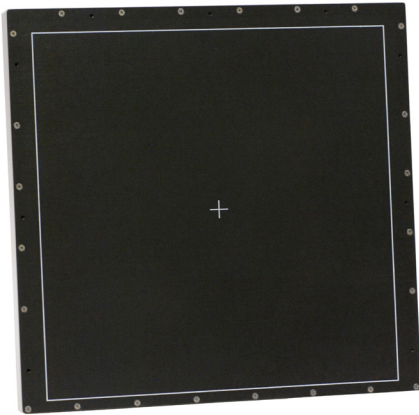


Product Description



The PaxScan® 3030DX 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 universal power supply. 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	55%
2.0 lp/mm	30%
Quantum Limited Dose (2x2)	3.5 nGy/frame
Energy Range	40 - 150 kVp
Fill Factor	68%
Lag	<5% (first frame)
Scan Method	Parallel
Data Output	Gigabit Ethernet
A/D Conversion	16-bit
Radiation Tolerance	2000 Gy (active area)
Dynamic Range	94 dB std modes

Power Requirements

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

Mechanical

Weight	approx. 5.6 kg panel
	with Tungsten - 9.05 kg
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 (non-condensing)	10% - 90%
Atmospheric Pressure	70 kPa - 106 kPa
Shock Tolerance	20G (any direction no power applied)

Regulatory

U.S.	ANSI/AAMI ES60601-1:2005
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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