



### Product Description

The PaxScan® 3030XV 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	55%
2.0 lp/mm	30%
Quantum Limited Dose (2x2)	7 nGy/frame
Energy Range	40 - 150 kVp
Fill Factor	68%
Lag	<5% (first frame)
Scan Method	Progressive
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 <sup>1</sup>	23W
Peak Power Consumption <sup>1</sup> (initialization)	28W

### 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) 30 fps continuous X-ray, 15 fps pulsed X-ray
Full Resolution	1,536 (h) x 1,536 (v) 15 fps continuous X-ray, 7.5 fps pulsed X-ray

### Environmental

Temperature Limit	15 - 53°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.	ANSI/AAMI ES60601-1:2005
Canada	CAN/CSA C22.2 No. 60601-1:08
EU	IEC/EN 60601-1:2005

Note<sup>1</sup> - Power drop across supply cables is not included

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