



### Product Description

The PaxScan® 3030DXV 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. Excellent low-dose performance is achieved by combining Varex Imaging’s proprietary readout electronics with a custom Cesium Iodide scintillator. Interfacing to the 3030DXV is a simple task through the standard Gigabit Ethernet port. The developer’s software package includes a “Virtual Command Processor” software interface that performs detector calibration, receptor set-up, image acquisition and image correction.

### 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	23%
2.58 lp/mm (Nyquist Frequency)	15%
DQE (1x1, Quantum-limited)	
0 lp/mm	80%
1.0 lp/mm	65%
2.0 lp/mm	44%
Quantum-limited Dose (2x2)	2.8 nGy /frame
(1x1)	7.9 nGy /frame
Energy Range	40 - 150 kVp
Fill Factor	68%
Lag	2.5 Nominal (first frame)
Scan Method	Progressive
Data Output	Gigabit Ethernet
A/D Conversion	16-bit
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>	15 W
Peak Power Consumption <sup>1</sup> (initialization)	20 W

### 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 Range - Operating	15°C - 58°C (as reported by imager internal sensor)
Temperature Range - Storage	-20°C - 70°C
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 ES60601-1:2012
Canada	CAN/CSA C22.2 No. 60601-1:14
EU	IEC/EN 60601-1:2012

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

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