

Flat Panel Detector



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 Csl:Tl
Pixel Area - Total \dots 298mm (h) x 298mm (v) (11.7 x 11.7 in)
Pixel Matrix - Total
Pixel Pitch
Limiting Resolution 2.58 lp/mm @ 15 fps (1 x 1) 1.29 lp/mm @ 30 fps (2 x 2)

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Image Quality (RQA5) (typical)	
MTF (1x1) 1.0 lp/mm 2.0 lp/mm 2.58 lp/mm (Nyquist Frequency)	
DQE (1x1, Quantum-limited) 0 lp/mm 1.0 lp/mm 2.0 lp/mm	55%
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

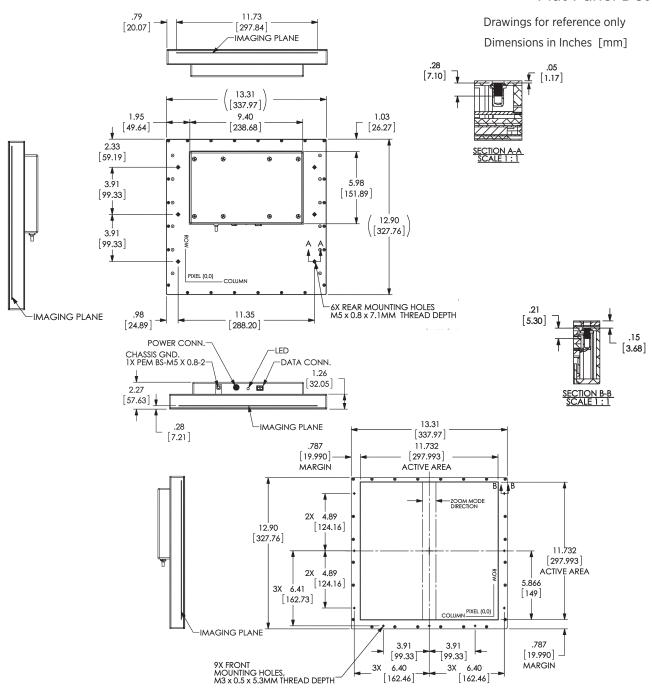
Power Requirements

Input voltage range		
Nominal Power Consumption ¹		
Peak Power Consumption ¹ (initialization)		
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		
Full Resolution		
Environmental		
Temperature Limit		
Relative Humidity 10 - 90% Non-Condensing		
Atmospheric Pressure		
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 ¹ - Power drop across supply cables is not included		

^{*}PaxScan is a Registered Trademark of Varex Imaging Corporation.



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For a complete listing of our global offices, visit www.vareximaging.com

Manufactured by Varex Imaging Corporation

Specifications subject to change without notice.

Note: All Varex Imaging Amorphous Silicon Receptors are designed to be integrated into a complete X-ray system by a qualified system integrator. The system Integrator is responsible for obtaining FDA clearance for medical use.