

Flat Panel Detector



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 $194\mu m$ -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 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)

Image Quality (RQA5) (typical)
MTF (1x1) 1.0 lp/mm
DQE (1x1, Quantum-limited) 80% 0 lp/mm 65% 1.0 lp/mm 44%
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Energy Range
Fill Factor
Lag
Scan Method Progressive
Data Output Gigabit Ethernet
A/D Conversion
Radiation Tolerance
Dynamic Range

Power Requirements

Input voltage range
Nominal Power Consumption ¹
Peak Power Consumption¹ (initialization) 20 W
Mechanical
Weight approx. 5.6 kg panel
Housing Material Aluminum
Sensor Protection Carbon fiber and aluminum
Mounting Provisions \dots Blind, threaded mounting holes on the back.
Image Acquisition Modes
Normal Fluoro
Full Resolution
Environmental

Environmentai

Temperature Range - Storage20°C - 70°C
Relative Humidity (Non-Condensing) 10% - 90%
Atmospheric Pressure
Shock Tolerance 20G (any direction no power applied)
Regulatory

Temperature Range - Operating 15°C - 58°C

(as reported by imager internal sensor)

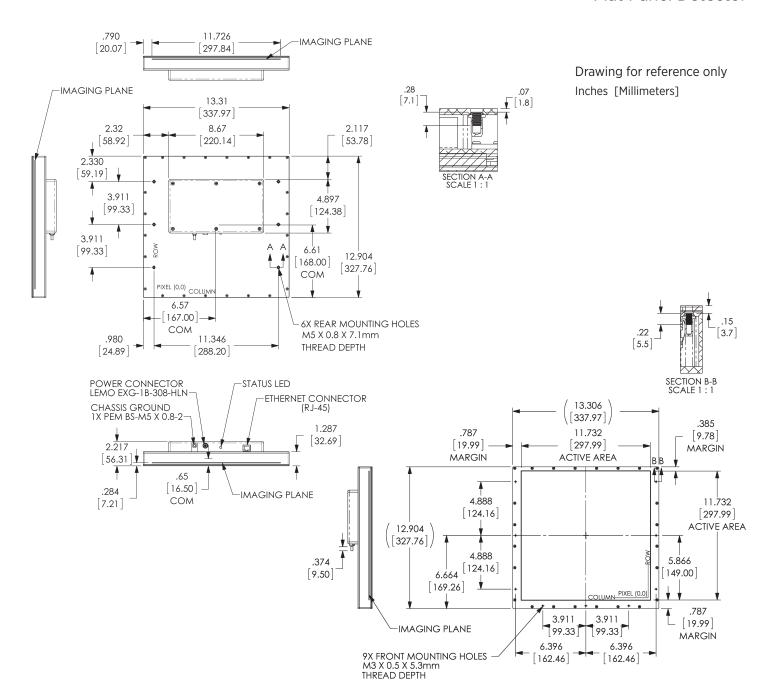
U.S	ANSI/AAMI ES60601-1:2012
Canada CA	AN/CSA C22.2 No. 60601-1:14
EU	IEC/EN 60601-1:2012

Note ¹ Power drop across supply cables is not included

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



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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.