

# Flat Panel Detector





### **Product Description**

The PaxScan<sup>®</sup> 2020X (version 3) is a real-time digital X-ray imaging device commonly referred to as a flat panel detector (FPD). The main system components are the 20 x 20cm 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 lodide 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	199 mm (h) x 199 mm (v) (7.8 x 7.8 in.)
Pixel Matrix - Total	1,024 (h) x 1,024 (v)
Effective	1,004 (h) x 1,004 (v)
Pixel Pitch	194 μm
Limiting Resolution	

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
Quantum Limited Dose (2x2) 1.5 nGy/frame
Energy Range
Fill Factor
Lag
Scan Method Parallel
Data Output Fiber optic
A/D Conversion
Cooling Passive
Radiation Tolerance
Dynamic Range

## **Power Requirements**

Input voltage range
Mechanical
Weight
Housing Material Aluminum
Sensor Protection Carbon fiber and aluminum
thm:mounting Provisions Blind, threaded mounting holes on the back.
Image Acquisition Modes
Normal Fluoro
Full Resolution 1,024 (h) x 1,024 (v)
<b>Environmental</b>
Temperature Limit
Relative Humidity (non-condensing)
Atmospheric Pressure
Shock Tolerance 20G (any direction no power applied)
Regulatory
U.S ANSI/AAMI ES60601-1:2005
Canada
EU IEC/EN 60601-1:2005

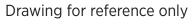
Note<sup>1</sup> Power drop across supply cables is not included

<sup>&</sup>lt;sup>®</sup>PaxScan is a Registered Trademark of Varex Imaging Corporation

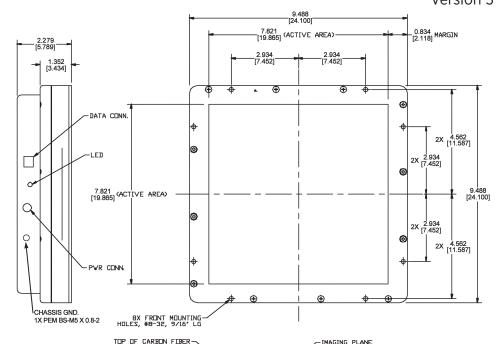


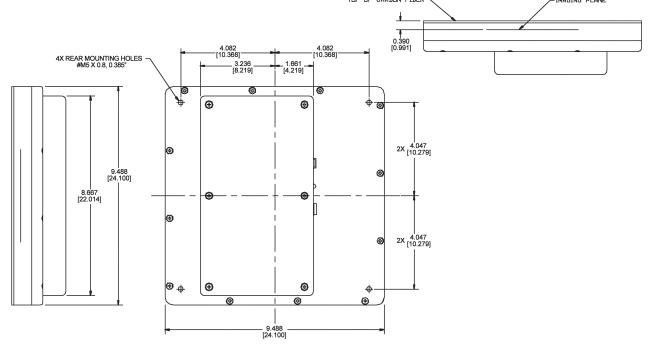
# Flat Panel Detector

# Version 3



Inches [Centimeter]







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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.