

Flat Panel Detector



Product Description

The PaxScan® 2020DXV 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. Interfacing to the 2020DXV 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. 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:TI
Pixel Area - Total	199 mm (h) x 199 mm (v)
Pixel Matrix - Total	
Pixel Pitch	194 μm
Limiting Resolution	

1.29 lp/mm (2 x 2)
Image Quality (RQA5) - (typical)
MTF (1x1)
1.0 lp/mm
2.0 lp/mm
DQE (1x1, Quantum-limited)
0 lp/mm
1.0 lp/mm
2.0 lp/mm
Quantum Limited Dose (2x2) 2 nGy/frame (1x1) 6 nGy/frame
Energy Range
Fill Factor
Lag
Scan Method Progressive
Data Output GigE
A/D Conversion
Cooling Passive
Radiation Tolerance (active area)
Dynamic Range

Power Requirements

Input voltage range	
(measured at the input of the imager)	
Nominal Power Consumption ¹	
Peak Power Consumption¹ (initialization)	
<u>Mechanical</u>	
Weight	
Housing Material Aluminum	
Sensor Protection Carbon fiber and aluminum	
$\label{thm:mounting Provisions} \ Blind, threaded mounting holes on the back$	
Image Acquisition Modes	
2 x 2 Binned 60 fps continuous X-ray, 30 fps pulsed Fluoro	
Full Resolution 30 fps continuous X-ray, 15 fps pulsed Fluoro	
Environmental	
Temperature Range - Operating	
Temperature Range - Storage20°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	
Canada	
EU IEC/EN 60601-1:2012	

Note ¹ Power drop across supply cables is not included.

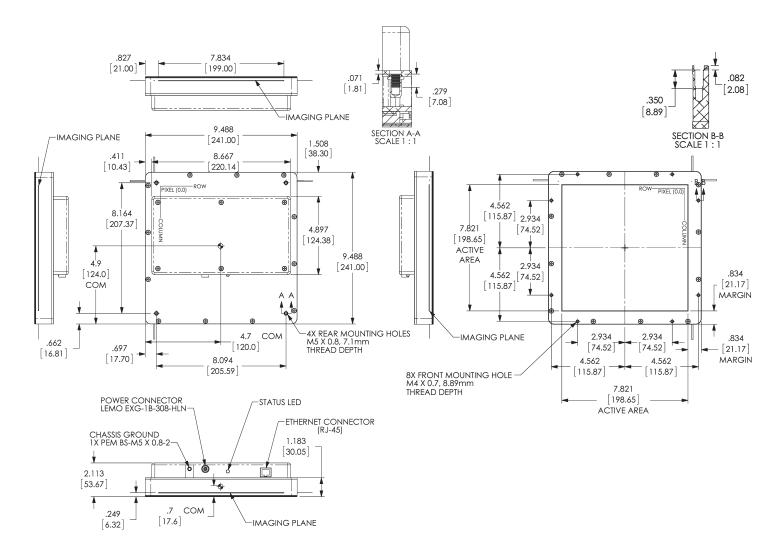
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Drawing for reference only

Inches [millimeters]





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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.