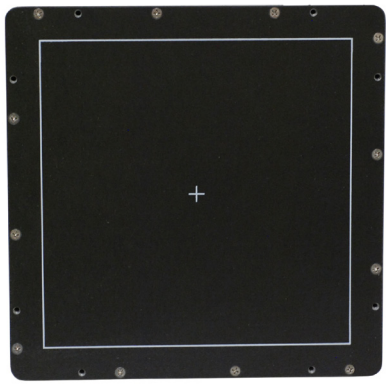
PaxScan® 2121XV

Flat Panel Detector



Product Description

The PaxScan® 2121XV is a real-time digital X-ray imaging device commonly referred to as a flat panel detector (FPD). The main system components are the 21 x 21cm 205um-pixel amorphous silicon FPD and Command Processor CP2LC. Excellent low-dose performance is achieved by combining Varex Imaging's proprietary read-out 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 CsI:Tl
Pixel Area - Total	209.9 mm (h) x 209.9 mm (v)
Pixel Matrix - Total	1,024 (h) x 1,024 (v)
Effective	1,004 (h) x 1,004 (v)
Pixel Pitch	205 µm
Limiting Resolution	2.43 lp/mm (1 x 1)
	1.22 lp/mm (2 x 2)

Image Quality (RQA5) (typical)

MTF (1x1)	
1.0 lp/mm	55%
2.0 lp/mm	22%
DQE (1x1, Quantum-limited)	
0 lp/mm	80%
1.0 lp/mm	65%
2.0 lp/mm	40%
Quantum Limited Dose	2 nGy/frame (2 x 2)
	6 nGy/frame (1 x 1)
Energy Range	40 - 150 kVp
Fill Factor	77.4%
Lag	2.5% Nominal (first frame)
Scan Method	Progressive
Data Output	FIber Optic
A/D Conversion	16-bit
Cooling	Passive
Radiation Tolerance (active area)	2000 Gy
Dynamic Range	94 dB std modes

Power Requirements

Input voltage range	21 V - 33 V
	(measured at the input of the imager)
Nominal Power Consumption[1]	12 W
Peak Power Consumption[1] (initialization)	12 W

Mechanical

Weight	3.2 kg
Housing Material	Aluminum
Sensor Protection	Carbon fiber and aluminum
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 Fluro

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 [1] Power drop across supply cables is not included

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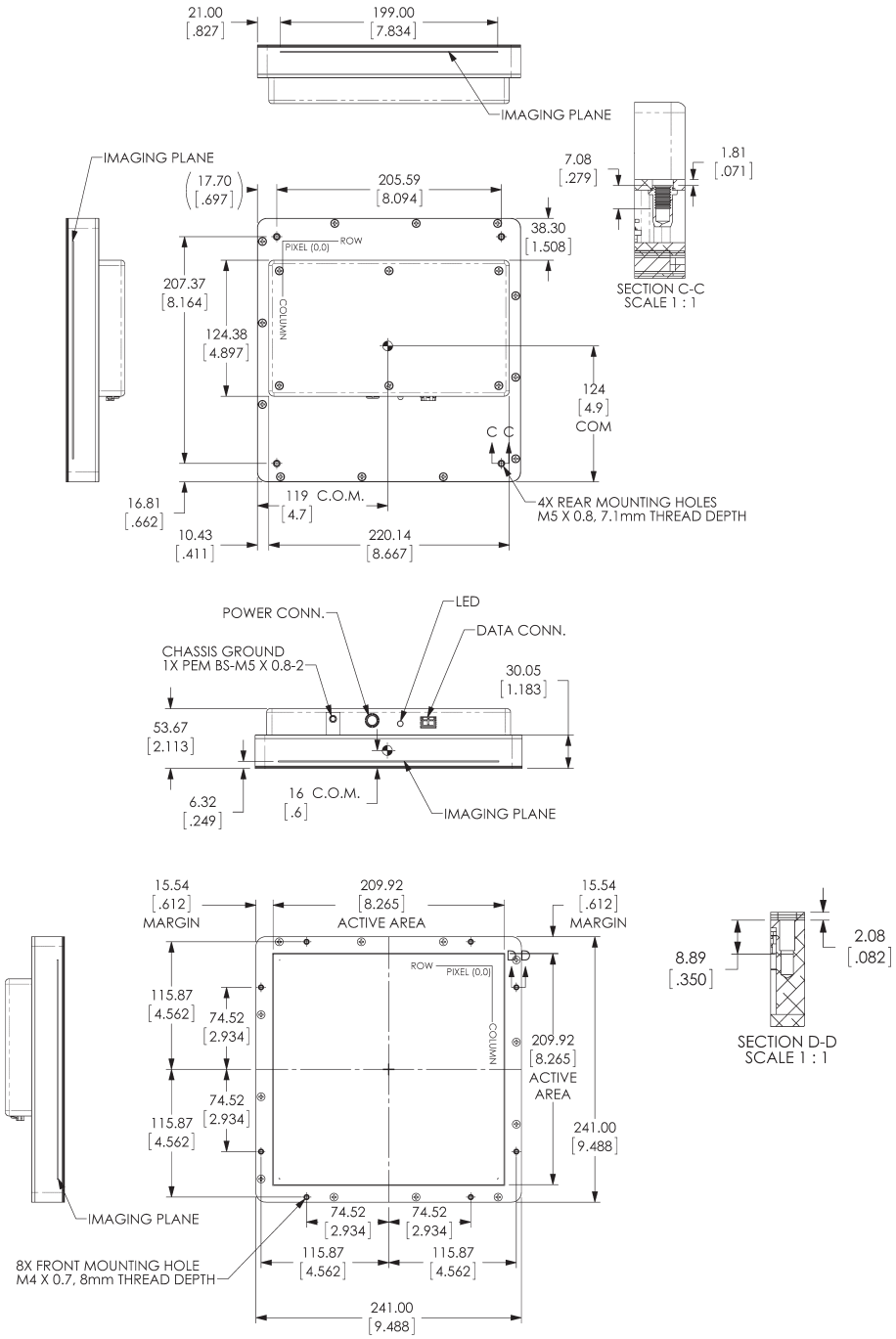
Drawing for reference only

Millimeters [Inches]



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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.