

Flat Panel Detector



PaxScan® 4030CB Receptor and Command Processor 2. (Fiber optic cable not shown)

Technical Specifications

Receptor Type Amorphous Silicon
Conversion Screen Integral columnar Csl:Tl
Pixel Area - Total 397 mm (h) x 298 mm (v) (15.6 x 11.7 in)
Pixel Matrix - Total
Pixel Pitch
Limiting Resolution 2.58 lp/mm @ 7.5 fps (1x1) 1.29 lp/mm @ 30 fps (2x2)
MTF (1.0 lp/mm) at 80 kVp, 1x1
DQE (0), RQA5
Energy Range
Fill Factor
Contrast Ratio Large Area (120 mm):< 0.8% Small Area (10 mm): < 7%
Lag
Scan Method Parellel
Data Output High-speed serial
A/D Conversion
Spectral Response
Signal Capacity
Gamma
Radiation Tolerance 1MRad (active area), 10 kRad (electronics)
Dynamic Range (saturation-to-noise)
Dual/Dynamic Gain Modes
Fluoro Modes

Dual/Dynamic Gain Modes, Effective resolution>16-bit

Product Description

The PaxScan® 4030CB is specifically designed to meet the needs of Cone Beam X-ray imaging applications featuring multiple sensitivity ranges and extended dynamic range modes. The main system components are the 40 x 30cm 194µm-pixel amorphous silicon FPD and real-time image and Command Processor 2. Excellent low-dose performance is achieved by combining Varex Imaging's proprietary readout electronics with the high sensitivity of a custom Cesium lodide scintillator. A Windows®XP™ 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.

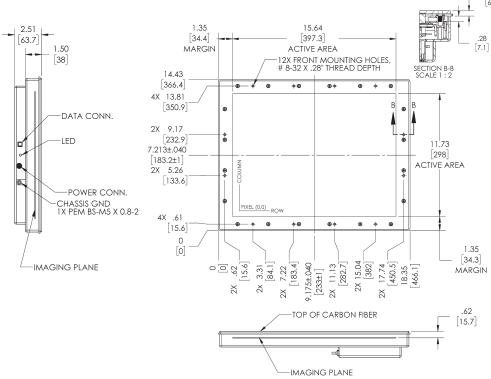
Non-officiality	
Inactive Lines	≤ 9 total rows and columns, minimum separation 16 lines
Inactive Pixels No inactive v	visible pixels after interpolation
Maximum Entrance Dose/Frame	Gain-1 4,000 μR
Cooling	Passive convection
Lead Barrier Cap	Optional
<u>Mechanical</u>	
Weight	
Housing Material	Aluminum
Sensor Protection Carbo	on fiber plate 2.5 mm thick plus 0.25 mm thick aluminum plate.
Mounting ProvisionsBlind, threaded r	mounting holes front and back.
Environmental	
Temperature Limit	10 - 35°C case temperature
Relative Humidity	10 - 90% Non-Condensing
Atmospheric Pressure	70 kPa - 106 kPa
Shock Tolerance 20G (a	ny direction no power applied)
Regulatory	
U.S	ANSI/AAMI ES60601-1:2012
Canada	CAN/CSA C22.2 No. 60601-1:14
EU	IEC/EN 60601-1:201205

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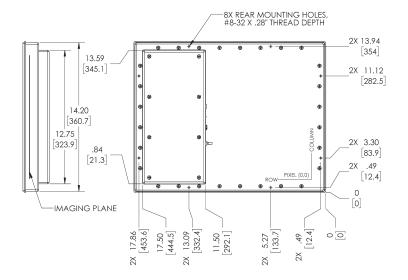


Flat Panel Detector

Front View



Rear View



Drawings for reference only

Dimensions are in Inches [mm]

Image Acquisition Modes (Current)

High-Sense Fluoro: 1024 (h) x 768 (v)

30 fps Gain-4 0.5 pF

Normal Fluoro: 1024 (h) x 768 (v)

30 fps Gain-2 0.5 pF

High-Sense 2048 (h) x 1536 (v)

Full-Resolution: 7.5 fps

Gain-2 0.5 pF

Dual Gain 1024 (h) x 1536 (v)

High Range: 15 fps Gain-1

Gain-1 0.5/4 pF

High-Dose 2048 (h) x 1536 (v)

Full-Resolution: 7.5 fps

Gain-2 4 pF

Image Acquisition Modes (Digital Board 2.0 with Dynamic-Gain readout required)

Dynamic Gain 1024 (h) x 768 (v)

High Range: 30 fps

Gain-1 0.5 pF

Additional Modes:

Consult 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.