X-RAY PRODUCTS

PaxScan® 4343CB (Industrial)

Digital Image Receptor



PaxScan[®] 4343CB Receptor with CP2. Fiber optic cable not shown.

The PaxScan® 4343CB 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 43 x 43cm 139µm-pixel amorphous silicon FPD and Command Processor 2LC. Excellent low-dose performance is achieved by combining Varian's proprietary readout electronics with the high sensitivity of 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.

Product Description	
Receptor Type Amorphous Silicon	<u>Mechanical</u>
Conversion Screen Integral columnar Csl:Tl	Weight
Pixel Area - Total	Housing Material
Pixel Matrix - Total	Mounting Provisions Blind, threaded mounting holes front and back.
Pixel Pitch	Environmental
Limiting Resolution	Temperature Limit
Image Quality (RQA5)	Relative Humidity
MTF (1x1) at 1 lp/mm typical	Atmospheric Pressure
DQE (1x1, quantum-limited) at 0 lp/mm typical	Shock Tolerance
Contrast Ratio Large Area (120 mm): < 0.8% Small Area (10 mm): < 7%	Image Acquisition Modes (Current)
Lag (1st frame)	Fluoro FOV: 1024 (h) x 1024 (v)
Maximum Entrance Dose/Frame typical	25 fps 3 x 3 binning, FOV 427 x 427 mm
Dynamic Range	Fluoro Zoom: 1024 (h) x 1024 (v) 30 fps
Energy Range	2 x 2 binning, FOV 285 x 285 mm
Fill Factor 60.7%	RAD: 3072 (h) x 3072 (v)
Scan Method Progressive	4 fps 1 x 1 binning, FOV 427 x 427 mm
Data Output LVDS, CameraLink	CBCT: 768 (h) x 768 (v)
A/D Conversion	40 fps
Dual/Dynamic Gain Modes, Effective bits >17-bits	4 x 4 binning, FOV 427 x 427 mm
Non-Uniformity	Additional Modes: Consult Varian Medical Systems, Inc.
Inactive Lines \leq 9 total rows and columns, minimum separation 16 lines	Power Requirements
Inactive Pixels No inactive visible pixels after interpolation	Input voltage range ¹
Cooling Air Cooling	Nominal Power Consumption ¹
Radiation Tolerance	Peak Power Consumption ¹ (initialization)
®PaxScan is a Registered Trademarks of Varian Medical Systems	Note 1 Voltage and power drop across supply cables not included



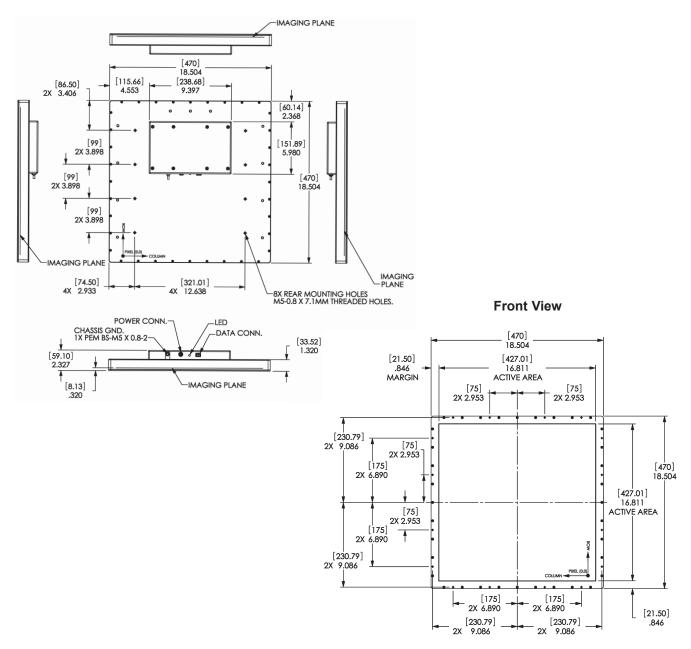
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Dimensions are in inches [mm]

Rear View



NOTE: Varian Amorphous Silicon Image 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.

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