

Product Description



The PaxScan® 2020+ has been specifically designed to meet or exceed the unique imaging requirements for next generation cardio-vascular diagnostic imaging equipment and mobile C-arms. The high sensitivity of the CsI scintillator combined with proprietary noise management techniques allows for excellent low-dose imaging performance that rivals image intensifier tube (IIT) devices. Other features include an optimal 2 cm border between the active matrix and the edge of the receptor, further optimization of the pixel architecture, and an improved Command Processor with extended mode memory and faster clock speed.

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.

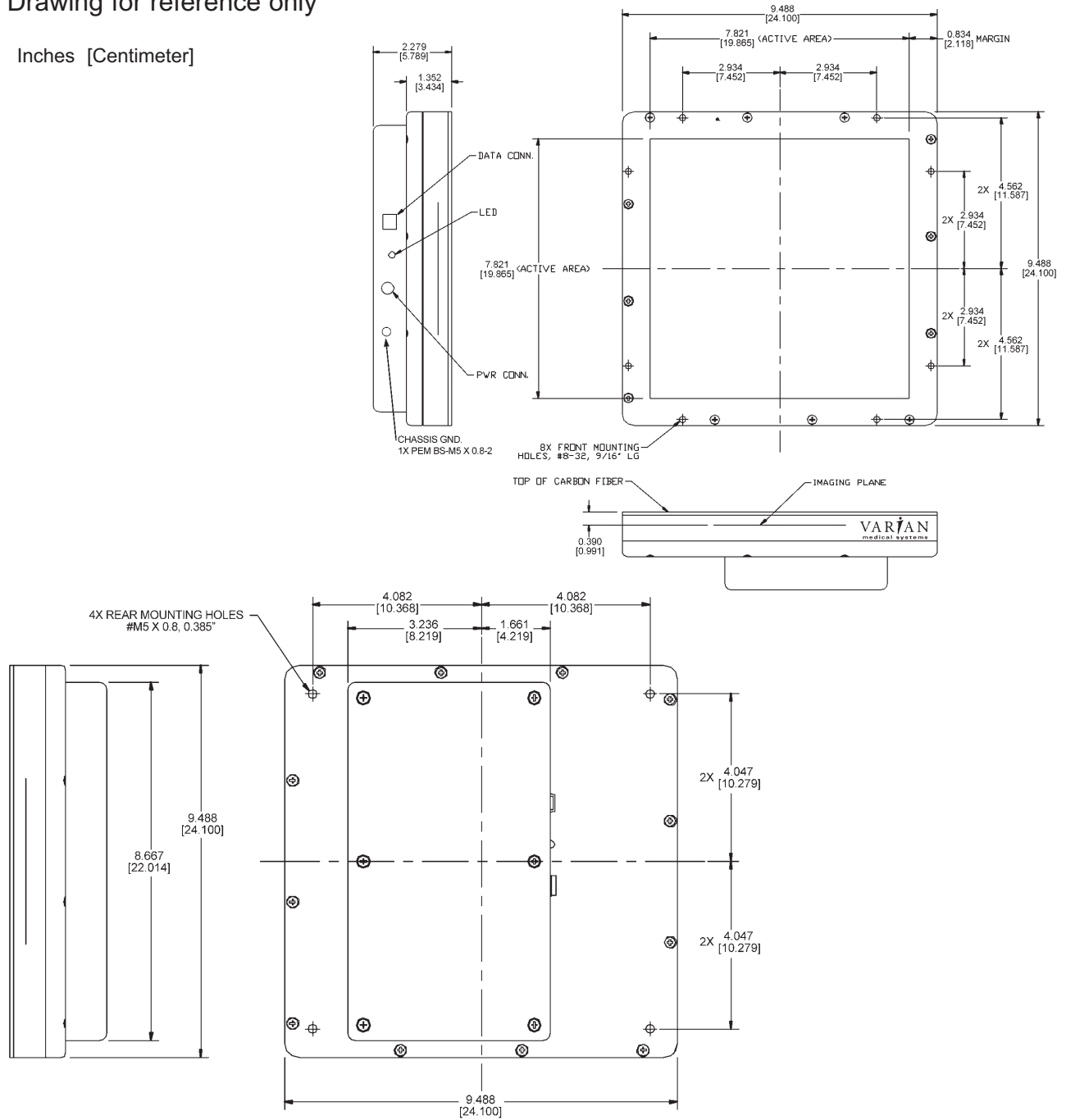
Technical Specifications

Receptor Type	Amorphous Silicon	Frame Rate	10 fps - 60 fps
Conversion Screen	Integral columnar CsI:TI	Exposure Window	15 ms at 30 fps
Pixel Area - Active	19.9 cm x 19.9 cm	Non-Uniformity - 1% of full scale maximum after dark current and sensitivity correction inside active area.	
Pixel Matrix - Active	1,024 x 1,024	Maximum Inactive Lines	5 total rows and columns, minimum separation 16 lines.
Pixel Pitch	194 µm	Maximum Inactive Pixels	Total <1,000
Limiting Resolution	2.58 lp/mm	Maximum Entrance Dose/Frame Gain - 1	4000 µR
MTF (1.0 lp/mm) at RQA5, 1x1	≥ 55%	Environmental	
DQE (0), RQA5	70% ±5%	Temperature Range	10 - 38°C case temperature. Cooling is required for case temperature >35°C.
Quantum Limited Dose (RQA5)	4 nGy	Relative Humidity	10 - 90% Non-Condensing
Energy Range	40 - 150 kVp	Atmospheric Pressure	70 kPa - 106 kPa
Fill Factor	70%	Regulatory	
Contrast Ratio	Large Area (120mm): < 0.8% Small Area (10mm): < 7%	U.S.	UL 60601-1
Lag	< 5%, first frame	Canada	CSA 22.2 No. 601.1-M90
Scan Method	Progressive, unidirectional	Mechanical	
Data Output	Fiber optic	Weight	5.0 kg
A/D Conversion	14-bits		
Spectral Response	400-700 nm; 550 nm peak		
Signal Capacity	8pC/pixel/frame		
Gamma	1		
Dynamic Range	72 dB		

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Drawing for reference only

Inches [Centimeter]



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