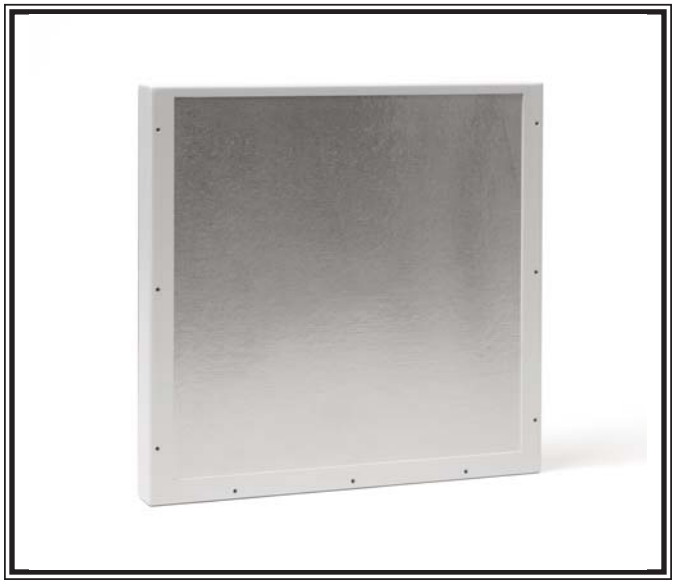
VARIAN medical systems | X-RAY PRODUCTS

PaxScan® 3030D
Digital Image Receptor



Product Description

The PaxScan® 3030D is a real-time digital X-ray imaging device commonly referred to as a flat panel detector (FPD). The main system components are the 30 x 30cm 194µm-pixel amorphous silicon FPD and universal power supply. Excellent low-dose performance is achieved by combining Varian's proprietary readout electronics with a custom Cesium Iodide 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.

Receptor Type	Amorphous Silicon
Conversion Screen	Integral columnar CsI:Tl
Pixel Area - Total	298mm (h) x 298mm (v) (11.7 x 11.7 in)
Pixel Matrix - Effective	1,526 (h) x 1,526 (v)
Pixel Pitch	194 µm
Limiting Resolution	2.58 lp/mm @ 12 fps (1 x 1) 1.29 lp/mm @ 30 fps (2 x 2)
MTF, X-Ray	>48% (1.0 lp/mm at RQA5, 1 x 1)
DQE (0), Quantum-Limited	>65 ± 5%
Energy Range	40 - 150 kVp
Fill Factor	68%
Contrast Ratio	Large Area (120mm): < 1% Small Area (10mm): < 7%
Lag	<10%, (first frame, 30 fps, 2x2 bin mode)
Gamma	1
Scan Method	Parallel
Data Output	Gigabit Ethernet
A/D Conversion	14-bits
Non-Uniformity	1% maximum
Cooling	Passive
Radiation Tolerance - 200 kRad (active area), 10 kRad (electronics)	

Environmental

Temperature Limit	35 - 58°C Internal Sensor #8
Relative Humidity	10-90% Non-Condensing
Shock Tolerance	20G (any direction no power applied)

Regulatory

U.S.	UL 60601-1
Canada	CSA 22.2 No. 601.1-M90

Mechanical

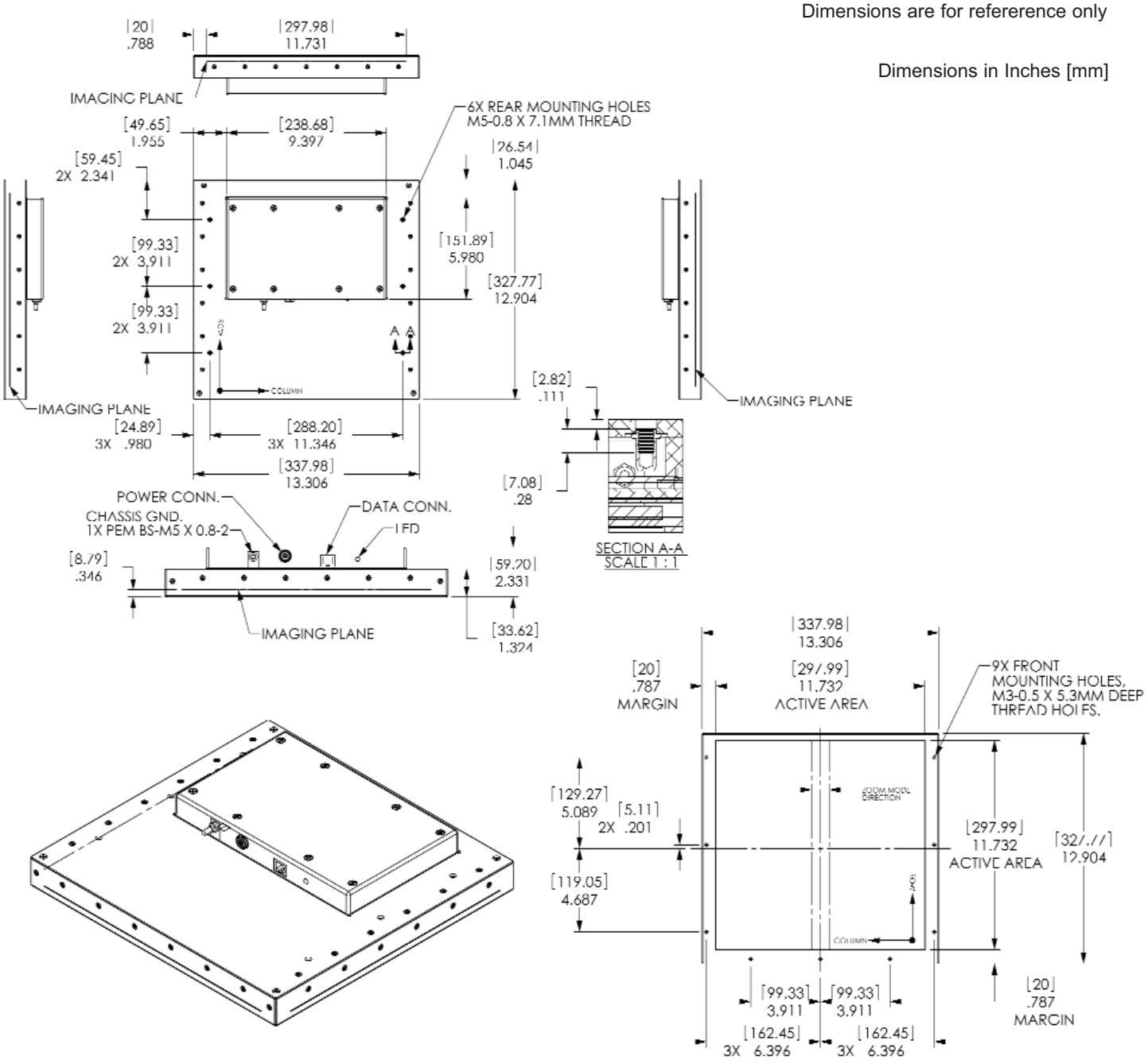
Size: cm (inches)	33.8 x 32.8 x 5.8 cm (13.3 x 12.9 x 2.3)
Weight	approx. 5.6 kg panel only
Housing Material	Aluminum
Sensor Protection	Carbon fiber and aluminum
Mounting Provisions	Blind, threaded mounting holes front and back.

Image Acquisition Modes

Normal Fluoro	768 (h) x 768 (v) (2x2 binned) 30 fps Resolution: 1.29 lp/mm Parallel scan
Full Resolution	1,536 (h) x 1,536 (v) 12.5 fps Resolution: 2.58 lp/mm Parallel scan

Dimensions are for refererence only

Dimensions in Inches [mm]



NOTE: As with all Varian Amorphous Silicon Image Receptors, the PaxScan 3030D is 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.

VARIAN medical systems

1678 South Pioneer Road
Salt Lake City, Utah 84104
Phone: 801-972-5000
Fax: 801-973-5050

PAXSCAN®