Preliminary

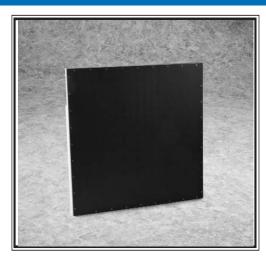


Recentor Type

X-RAY PRODUCTS

PaxScan® 4343DX

Amorphous Silicon Digital X-Ray Detector



PaxScan® 4343DX Receptor

The PaxScan® 4343DX is specifically designed to meet the needs of Radiographic and Fluoroscopic X-ray imaging applications featuring multiple sensitivity ranges and extended dynamic range modes. The 4343DX has a cost effective Gigabit Ethernet communication link, hardware syncronization signals and single 24V power input. 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 Amorphous Silicon Mechanical

Receptor Type Amorphous Silicon
Conversion Screen Integral columnar Csl:Tl
Pixel Area - Total 42.7 cm (h) x 42.7 cm (v) (16.8 x 16.8 in)
Pixel Matrix - Total
Pixel Pitch
Limiting Resolution
MTF, X-Ray 50% (1.0 lp/mm at 80 kVp, 1x1)
DQE (0), Quantum-Limited
Energy Range
Fill Factor
Dynamic Range 80 dB std modes 98 dB DGS modes
Contrast Ratio Large Area (120 mm):< 0.8% Small Area (10 mm): < 7%
Lag
Scan Method Progressive
Data Output
A/D Conversion
A/D Conversion
Dual/Dynamic Gain Modes, Effective bits >16-bits
Dual/Dynamic Gain Modes, Effective bits >16-bits Non-Uniformity 1% maximum Inactive Lines ≤ 16 total rows and columns,
Dual/Dynamic Gain Modes, Effective bits >16-bits Non-Uniformity 1% maximum Inactive Lines ≤ 16 total rows and columns, minimum separation 16 lines
Dual/Dynamic Gain Modes, Effective bits >16-bits Non-Uniformity 1% maximum Inactive Lines ≤ 16 total rows and columns, minimum separation 16 lines Inactive Pixels No inactive visible pixels after interpolation

<u>Manual</u>	
Weight	13 kg

Housing Material Aluminum

Mounting Provisions Blind, threaded mounting holes front and back.

Environmental

Relative Humidity 10-90% Non-Condensing

Shock Tolerance 20G (any direction no power applied)

Image Acquisition Modes (Current)

Fluoro FOV: 1024 (h) x 1024 (v)

25fps (cont), 12.5 fps (pulsed) 3 x 3 binning, FOV 427 x 427 mm

Fluoro Zoom: 1024 (h) x 1024 (v)

30fps (cont.), 15 fps (pulsed) 2 x 2 binning, FOV 285 x 285 mm

RAD: 3072 (h) x 3072 (v)

4fps (cont), 2 fps (pulsed)

1 x 1 binning, FOV 427 x 427 mm

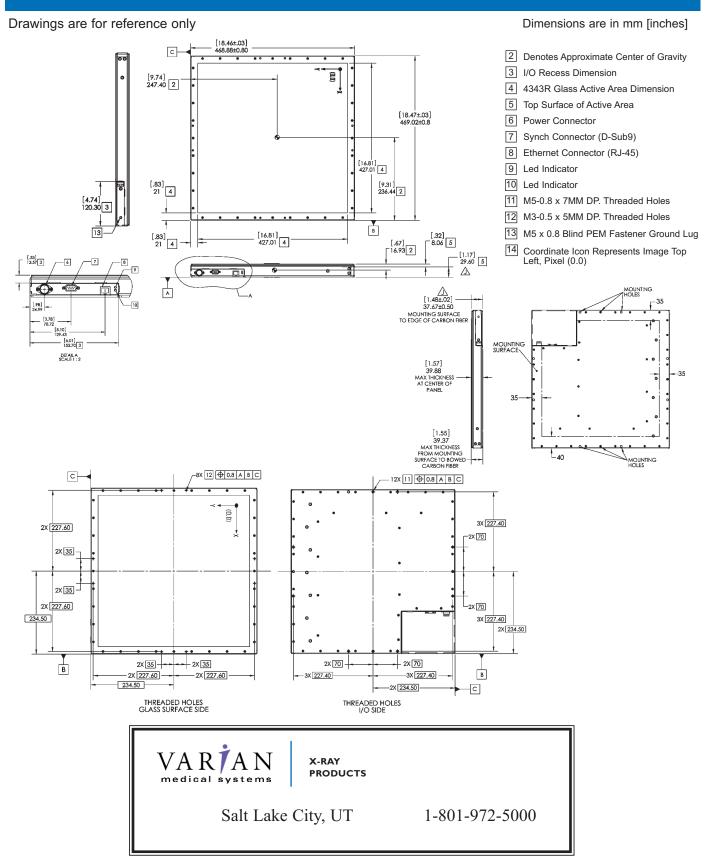
CBCT: 768 (h) x 768 (v)

40 fps (cont.), 20fps (pulsed) 4 x 4 binning, FOV 427 x 427 mm

Additional Modes: Consult Varian Medical Systems, Inc. Note: Pulsed mode frame times assume the x-ray window is half of the frame time. Shorter x-ray windows will result in

faster frame rates.





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