



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

Product Description

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 Varex Imaging'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.

Technical Specification

Receptor Type	Amorphous Silicon
Conversion Screen	Integral columnar CsI:Tl
Pixel Area - Total	42.7 cm (h) x 42.7 cm (v) (16.8 x 16.8 in)
Pixel Matrix - Total	3072 (h) x 3072 (v)
Pixel Pitch	139 µm
Limiting Resolution	3.6 lp/mm (1x1) 1.8 lp/mm (2x2)

Image Quality (RQA5)

MTF (1x1) at 1 lp/mm typical	54%
DQE (1x1, quantum-limited) at 0 lp/mm typical	74%
Contrast Ratio	Large Area (120 mm): < 0.8% Small Area (10 mm): < 7%
Lag (1st frame)	< 3%
Maximum Entrance Dose/Frame typical	50 µGy
Dynamic Range	94 dB std modes 108 dB DGS modes
Energy Range	40 - 150 kVp
Fill Factor	60.7%
Scan Method	Progressive
Data Output	LVDS, CameraLink
A/D Conversion	16-bits
Dual/Dynamic Gain Modes, Effective bits	>17-bits
Non-Uniformity	1% maximum
Inactive Lines	≤ 9 total rows and columns, minimum separation 16 lines
Inactive Pixels	No inactive visible pixels after interpolation
Cooling	Air Cooling
Radiation Tolerance	2000 Gy (active area)

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Power Requirements

Input voltage range ¹	21V - 33V (measured at the input of the imager)
Nominal Power Consumption ¹	54W
Peak Power Consumption ¹ (initialization)	68W

Mechanical

Weight	13 kg
Housing Material	Aluminum
Mounting Provisions	Blind, threaded mounting holes front and back.

Image Acquisition Modes (Current)

Fluoro FOV:	1024 (h) x 1024 (v) 25 fps 3 x 3 binning, FOV 427 x 427 mm
Fluoro Zoom:	1024 (h) x 1024 (v) 30 fps 2 x 2 binning, FOV 285 x 285 mm
RAD:	3072 (h) x 3072 (v) 4 fps 1 x 1 binning, FOV 427 x 427 mm
CBCT:	768 (h) x 768 (v) 40 fps 4 x 4 binning, FOV 427 x 427 mm

Additional Modes: Consult Varex Imaging Corporation

Environmental

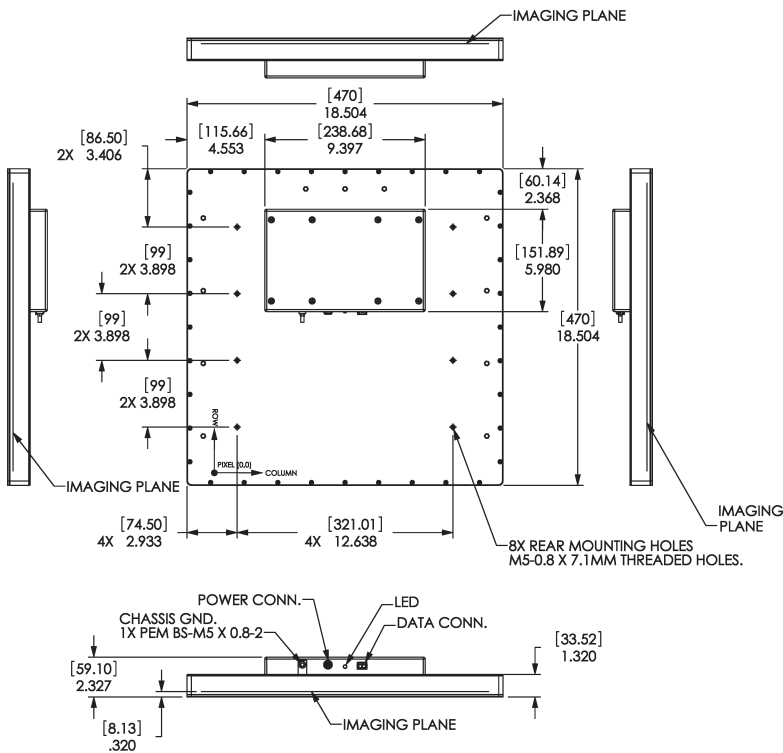
Temperature Limit	19 - 49°C (as reported by imager internal temperature sensor)
Relative Humidity	10-90% Non-Condensing
Atmospheric Pressure	70 kpa - 106 kpa
Shock Tolerance	20G (any direction no power applied)

Regulatory

U.S.	ANSI/AAMI ES60601-1:2012
Canada	CAN/CSA C22.2 No. 60601-1:14
EU	IEC/EN 60601-1:2012

Note ¹ Voltage and power drop across supply cables not included

Rear View



Dimensions are for reference only
 Dimensions are in inches [mm]

Front View

